University of Pittsburgh

GRADUATE AND PROFESSIONAL BULLETIN
2000 • 2003
USING THIS BULLETIN

Students who are interested in or accepted to any of the University of Pittsburgh’s graduate or professional programs other than those leading to the first-professional degrees offered by the University (MD, JD, LLM, PharmD, or DMD) will find useful most of the sections of this bulletin. Descriptions of the University, its regulations, and its services are included in the sections prior to the program-specific information in the Schools, Departments, and Programs section of the bulletin.

Students interested in first-professional programs (MD, JD, LLM, PharmD, or DMD) can ignore much of the bulletin prior to the First-Professional Programs section, but should familiarize themselves with the general information on the University, as well as the section on Campus Facilities & Student Services, and the University-wide policies detailed in Rights and Responsibilities. The Schools of Medicine, Law, Dental Medicine, and Pharmacy appear in the Schools, Departments, and Programs section for programs leading to the graduate and professional advanced degrees as well as in the First-Professional Programs section since these schools offer both types of programs. Faculty are listed by their department or program at the end of the school.

Students should note that the listings of requirements and procedures for admissions, registration, and other information listed in the sections prior to the more program-specific information provided in the Schools, Departments, and Programs section of this bulletin represent the minimum requirements and basic procedures. Students should consult the information on their specific school, program, and department for detail on additional or stricter requirements and procedures.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>THE UNIVERSITY OF PITTSBURGH</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>About the University</strong></td>
<td>1</td>
</tr>
<tr>
<td>History</td>
<td>1</td>
</tr>
<tr>
<td>Accreditation</td>
<td>1</td>
</tr>
<tr>
<td>Academic Organization and Pittsburgh Campus Overview</td>
<td>1</td>
</tr>
<tr>
<td>Organization of Graduate and Professional Education at the University</td>
<td>2</td>
</tr>
<tr>
<td><strong>APPLICATION FOR ADMISSION</strong></td>
<td>3</td>
</tr>
<tr>
<td>Graduate Admissions</td>
<td>3</td>
</tr>
<tr>
<td>Application Procedures</td>
<td>3</td>
</tr>
<tr>
<td>Application Deadlines</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Admissions of International Students</td>
<td>3</td>
</tr>
<tr>
<td>International Student Application Deadlines and Application Fee</td>
<td>3</td>
</tr>
<tr>
<td>International Student Academic Background and Credentials</td>
<td>3</td>
</tr>
<tr>
<td>English Language Proficiency Requirements</td>
<td>4</td>
</tr>
<tr>
<td>English Language Fluency for Teaching Assistants/Fellows</td>
<td>4</td>
</tr>
<tr>
<td>Financial Support and Visa Documents</td>
<td>4</td>
</tr>
<tr>
<td>Additional International Student Requirements</td>
<td>4</td>
</tr>
<tr>
<td><strong>Admissions Status</strong></td>
<td>4</td>
</tr>
<tr>
<td>Full Graduate Status</td>
<td>4</td>
</tr>
<tr>
<td>Provisional Graduate Status</td>
<td>5</td>
</tr>
<tr>
<td>Special Status</td>
<td>5</td>
</tr>
<tr>
<td>Guarantees and Early Admission to Graduate and First-Professional Programs</td>
<td>5</td>
</tr>
<tr>
<td>Tuition Deposit</td>
<td>5</td>
</tr>
<tr>
<td>Deferred Admission</td>
<td>5</td>
</tr>
<tr>
<td>Readmission</td>
<td>5</td>
</tr>
<tr>
<td>Changing the Field of Graduate Study</td>
<td>5</td>
</tr>
<tr>
<td><strong>FINANCIAL ISSUES:</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>TUITION, FEES, LOANS, &amp; SCHOLARSHIPS</strong></td>
<td>6</td>
</tr>
<tr>
<td>Tuition</td>
<td>6</td>
</tr>
<tr>
<td>Tuition Deposit</td>
<td>6</td>
</tr>
<tr>
<td>Full Tuition</td>
<td>6</td>
</tr>
<tr>
<td>Residency/Reduced Tuition</td>
<td>6</td>
</tr>
<tr>
<td>Eligibility for Reduced Tuition</td>
<td>6</td>
</tr>
<tr>
<td>Financial Obligation of Students</td>
<td>6</td>
</tr>
<tr>
<td>Fees</td>
<td>6</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>7</td>
</tr>
<tr>
<td>Teaching and Research Appointments</td>
<td>7</td>
</tr>
<tr>
<td>Teaching Assistants (TA)</td>
<td>7</td>
</tr>
<tr>
<td>Teaching Fellows (TF)</td>
<td>7</td>
</tr>
<tr>
<td>Graduate Student Assistant (GSA)</td>
<td>7</td>
</tr>
<tr>
<td>Graduate Student Researcher (GSR)</td>
<td>7</td>
</tr>
<tr>
<td>Fellowships and Traineeships</td>
<td>7</td>
</tr>
<tr>
<td>Scholarships</td>
<td>7</td>
</tr>
<tr>
<td>Stafford Loans</td>
<td>8</td>
</tr>
<tr>
<td>Lifetime Learning Tax Credits</td>
<td>8</td>
</tr>
<tr>
<td><strong>Deferred Payments</strong></td>
<td>8</td>
</tr>
<tr>
<td>Aid Deferrals</td>
<td>8</td>
</tr>
<tr>
<td>Deferred Tuition Payment Plan</td>
<td>8</td>
</tr>
<tr>
<td>Payment</td>
<td>8</td>
</tr>
<tr>
<td><strong>CAMPUS FACILITIES &amp; STUDENT SERVICES</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Academic Resources</strong></td>
<td>9</td>
</tr>
<tr>
<td>University Library System</td>
<td>9</td>
</tr>
<tr>
<td>Barco Law Library</td>
<td>9</td>
</tr>
<tr>
<td>Health Sciences Library System</td>
<td>9</td>
</tr>
<tr>
<td>Computing Services and Systems Development</td>
<td>10</td>
</tr>
<tr>
<td>Campus Computing Labs</td>
<td>10</td>
</tr>
<tr>
<td>Network Authorization Accounts</td>
<td>10</td>
</tr>
<tr>
<td>Network Port Connectivity</td>
<td>10</td>
</tr>
<tr>
<td>Computer Consulting Services</td>
<td>10</td>
</tr>
<tr>
<td>Computer Sales and Digital Certification</td>
<td>10</td>
</tr>
<tr>
<td>Computing Workshops and Training</td>
<td>10</td>
</tr>
<tr>
<td>Network Services</td>
<td>10</td>
</tr>
<tr>
<td>Research and Academic Support</td>
<td>10</td>
</tr>
<tr>
<td>Center for Biotechnology and Bioengineering</td>
<td>10</td>
</tr>
<tr>
<td>Center for Instructional Development &amp; Distance Education (CIDDE)</td>
<td>11</td>
</tr>
<tr>
<td>Center for Philosophy of Science</td>
<td>11</td>
</tr>
<tr>
<td>English Language Institute</td>
<td>11</td>
</tr>
<tr>
<td>Institutional Review Board</td>
<td>11</td>
</tr>
<tr>
<td>Learning Research and Development Center (LRDC)</td>
<td>11</td>
</tr>
<tr>
<td>Learning Skills Center</td>
<td>11</td>
</tr>
<tr>
<td>Office of Measurement and Evaluation of Teaching (OMET)</td>
<td>11</td>
</tr>
<tr>
<td>Office of Research</td>
<td>11</td>
</tr>
<tr>
<td>University Center for International Studies (UCIS)</td>
<td>12</td>
</tr>
<tr>
<td>University Center for Social and Urban Research (UCSUR)</td>
<td>12</td>
</tr>
<tr>
<td>Writing Center</td>
<td>12</td>
</tr>
<tr>
<td>Services for New Teaching Assistants</td>
<td>12</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>Student Resources</strong></td>
<td>13</td>
</tr>
<tr>
<td>Affirmative Action</td>
<td>13</td>
</tr>
<tr>
<td>Athletics</td>
<td>13</td>
</tr>
<tr>
<td>Book Centers</td>
<td>13</td>
</tr>
<tr>
<td>Child Care</td>
<td>13</td>
</tr>
<tr>
<td>Counseling Center</td>
<td>13</td>
</tr>
<tr>
<td>Disability Resources and Services</td>
<td>13</td>
</tr>
<tr>
<td>Food Services</td>
<td>13</td>
</tr>
<tr>
<td>Health Care and Student Health Service</td>
<td>14</td>
</tr>
<tr>
<td>ID Center</td>
<td>14</td>
</tr>
<tr>
<td>International Services</td>
<td>14</td>
</tr>
<tr>
<td>Parking and Transportation</td>
<td>14</td>
</tr>
<tr>
<td>PITT ARTS</td>
<td>15</td>
</tr>
<tr>
<td>Placement Service</td>
<td>15</td>
</tr>
<tr>
<td>Public Safety</td>
<td>15</td>
</tr>
<tr>
<td>Sexual Assault Services</td>
<td>15</td>
</tr>
<tr>
<td>Student Government</td>
<td>15</td>
</tr>
<tr>
<td>Student Organizations</td>
<td>16</td>
</tr>
<tr>
<td>Survival Skills and Ethics Program</td>
<td>16</td>
</tr>
<tr>
<td>Veterans Services</td>
<td>16</td>
</tr>
<tr>
<td>William Pitt Union</td>
<td>16</td>
</tr>
<tr>
<td><strong>GENERAL ACADEMIC REGULATIONS</strong></td>
<td>17</td>
</tr>
<tr>
<td>Advising</td>
<td>17</td>
</tr>
<tr>
<td><strong>Allowable Credits</strong></td>
<td>17</td>
</tr>
<tr>
<td>Acceptance of Transfer Credits</td>
<td>17</td>
</tr>
<tr>
<td>Course Work Acceptable as Graduate Credit</td>
<td>17</td>
</tr>
<tr>
<td>Credit by Course Examination</td>
<td>17</td>
</tr>
</tbody>
</table>
Cross Registration Credits ............................................. 17
Enrollment in Graduate Courses as an Undergraduate ...... 17
Registration ................................................................. 18
  Registering for Classes .................................................. 18
  Full-Time and Part-Time Study ....................................... 18
  Maximum Credits per Term ........................................... 18
  Registration Status at Graduation .................................. 18
  Inactive Status .......................................................... 18
  Adding and Dropping Courses ....................................... 18
  Auditing Courses ....................................................... 19
  Cross Registration ...................................................... 19
  Registering for Two Independent
  Degree Programs Simultaneously ................................. 19
  Registering for Cooperative-, Dual-, and
  Joint-Degree Programs ............................................... 19
  Monitored Withdrawal from a Course ............................. 19
  Resigning from the University for a Specific Term ......... 19
Grading & Records ......................................................... 19
  GPA and GPA .......................................................... 19
  Academic Standards ................................................... 19
  Grading System ........................................................ 19
  University Grading Options ......................................... 20
  Letter Grades ............................................................ 20
  Other Grades: Incomplete, Withdraw, Resign ................. 20
  Repeating Courses ..................................................... 20
  Changing Grades ....................................................... 20
  Academic Record ...................................................... 21
  Grade Report ............................................................ 21
  Transcripts ............................................................... 21
  Academic Honors ...................................................... 21
  Probation, Suspension, and Dismissal ......................... 21
  Effect on Financial Aid and Scholarships ..................... 21
Editorial Assistance and Publication
of Theses/Dissertations ................................................. 21
  Editorial Assistance ................................................... 21
Regulations Pertaining to Master of Arts and Master of Science Degrees ........................................... 21
  MA and MS Requirements .......................................... 22
  Comprehensive Examination ....................................... 22
  Thesis Option .......................................................... 22
  Non-thesis Option .................................................... 22
Regulations Pertaining to Professional Master’s Degrees ................................................................. 22
  Professional Master’s Degree Requirements ................. 22
Regulations Pertaining to Doctoral Degrees ................................................................. 23
  Admission to Doctoral Study ....................................... 23
  Programs of Study ..................................................... 23
  Credit Requirements .................................................. 23
  Residency Requirement .............................................. 24
  Preliminary Evaluation ............................................... 24
  Comprehensive Examination ........................................ 24
  Doctoral Committee .................................................. 24
  Overview or Prospectus Meeting .................................. 24
  Admission to Candidacy for the Doctor of
  Philosophy Degree ...................................................... 25
  Registering for Full-Time Dissertation Study .................. 25
  Dissertation and Abstract ......................................... 25
  Language of the Doctoral Dissertation ........................ 25
  Final Oral Examination .............................................. 25
Interdisciplinary Doctoral Programs ............................................. 26
Other Doctoral Degrees .................................................. 26
Statute of Limitations/Leaves of Absence ......................... 26
Graduation ................................................................. 26
  Requirements for Graduation ...................................... 26
  Application to Graduate ............................................. 27
  Certification for Graduation ....................................... 27
  Commencement ........................................................ 27
Rights and Responsibilities ............................................. 27
  Academic Integrity Policy .......................................... 27
  Affirmative Action and Non-Discrimination Policy ............ 27
  AIDS Policy ........................................................... 27
  Computing Use Policy ............................................... 27
  Copyright Policy ........................................................ 27
  Drug-Free School and Workplace Policy ....................... 28
  Faculty-Student Relationships .................................... 28
  Family Educational Rights and Privacy Act .................... 28
  Graduate Student Researcher Policy Statement .............. 28
  Harassment Policies .................................................. 28
  Human Research Subjects: Institutional Review Board .... 28
  Patent Policy ........................................................... 28
  Research Integrity ....................................................... 29
  Smoking Policy ........................................................ 29
  Student Code of Conduct .......................................... 29
  Teaching Assistant/Teaching Fellow/Graduate
  Student Assistant Policy Statement ............................ 29
SPECIAL ACADEMIC OPPORTUNITIES ............................................. 30
Area of Concentration and Minors .................................. 30
Certificate Programs ..................................................... 30
Cross Registration ......................................................... 30
Two Independent Degree Programs Simultaneously .......... 30
Cooperative-, Dual-, and Joint-Degree Programs .................. 30
SCHOOLS, DEPARTMENTS,
AND PROGRAMS ................................................................. 31
  Degree- and Certificate-Granting
  Programs ................................................................. 31
FACULTY OF ARTS AND SCIENCES ............................................. 34
  Contact Information ................................................... 34
  Admissions ............................................................... 34
    Deferred Admission ................................................ 34
    Transferring Between FAS Departments .................... 34
    Admission of International Students ....................... 34
    Admission Status ................................................... 35
    Early Admission Program ...................................... 35
    Inactive Status/Readmission .................................... 35
    Financial Assistance ............................................... 35
    Teaching and Research Appointments ....................... 35
  Academic Standards ................................................. 38
    Credits and Grade Points ....................................... 38
    Academic Probation and Dismissal ......................... 38
    Withdrawal from Courses ...................................... 38
    Repetition of Courses ............................................. 38
    Grade Changes ...................................................... 38
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent Study</td>
<td>38</td>
</tr>
<tr>
<td>Directed Study</td>
<td>38</td>
</tr>
<tr>
<td>Transfer Credits</td>
<td>38</td>
</tr>
<tr>
<td>Registration of Undergraduate Students for</td>
<td></td>
</tr>
<tr>
<td>Graduate Credit</td>
<td>39</td>
</tr>
<tr>
<td>Statute of Limitations and Leaves of Absence</td>
<td>39</td>
</tr>
<tr>
<td>Advising and Placement</td>
<td>39</td>
</tr>
<tr>
<td>FAS Degree Requirements</td>
<td>39</td>
</tr>
<tr>
<td>Requirements for the MA, MS, and MFA Degrees</td>
<td>39</td>
</tr>
<tr>
<td>Credit Requirements</td>
<td>40</td>
</tr>
<tr>
<td>Foreign Language Requirement</td>
<td>40</td>
</tr>
<tr>
<td>Comprehensive Examination</td>
<td>40</td>
</tr>
<tr>
<td>Thesis</td>
<td>40</td>
</tr>
<tr>
<td>Application for Graduation</td>
<td>40</td>
</tr>
<tr>
<td>Graduation Certification</td>
<td>40</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>40</td>
</tr>
<tr>
<td>Credit Requirements</td>
<td>40</td>
</tr>
<tr>
<td>Course Requirements</td>
<td>40</td>
</tr>
<tr>
<td>Foreign Language and/or Other Tools of Research</td>
<td>40</td>
</tr>
<tr>
<td>Preliminary Examination</td>
<td>40</td>
</tr>
<tr>
<td>Comprehensive Examination</td>
<td>40</td>
</tr>
<tr>
<td>Doctoral Committee</td>
<td>40</td>
</tr>
<tr>
<td>Admission to Candidacy for the PhD Degree</td>
<td>40</td>
</tr>
<tr>
<td>Dissertation</td>
<td>41</td>
</tr>
<tr>
<td>Language of the Doctoral Dissertation</td>
<td>41</td>
</tr>
<tr>
<td>Final Oral Examination</td>
<td>41</td>
</tr>
<tr>
<td>Multiple Degree Options</td>
<td>41</td>
</tr>
<tr>
<td>Department and Program Descriptions</td>
<td>42</td>
</tr>
<tr>
<td>Anthropology</td>
<td>42</td>
</tr>
<tr>
<td>Contact Information</td>
<td>42</td>
</tr>
<tr>
<td>Admissions</td>
<td>42</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>42</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>42</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>42</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>43</td>
</tr>
<tr>
<td>Department Course Listings</td>
<td>45</td>
</tr>
<tr>
<td>Bioethics</td>
<td>47</td>
</tr>
<tr>
<td>Contact Information</td>
<td>47</td>
</tr>
<tr>
<td>Research</td>
<td>47</td>
</tr>
<tr>
<td>Facilities</td>
<td>47</td>
</tr>
<tr>
<td>Other Opportunities</td>
<td>47</td>
</tr>
<tr>
<td>Admissions</td>
<td>47</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>48</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>48</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>48</td>
</tr>
<tr>
<td>Program Courses</td>
<td>48</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>48</td>
</tr>
<tr>
<td>Contact Information</td>
<td>49</td>
</tr>
<tr>
<td>Research</td>
<td>49</td>
</tr>
<tr>
<td>Facilities</td>
<td>49</td>
</tr>
<tr>
<td>Interdepartmental Programs</td>
<td>49</td>
</tr>
<tr>
<td>Structural Biophysics</td>
<td>49</td>
</tr>
<tr>
<td>MD/PhD Program</td>
<td>49</td>
</tr>
<tr>
<td>Admissions</td>
<td>49</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>50</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>50</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>50</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>50</td>
</tr>
<tr>
<td>Course Listings</td>
<td>50</td>
</tr>
<tr>
<td>Chemistry</td>
<td>52</td>
</tr>
<tr>
<td>Contact Information</td>
<td>52</td>
</tr>
<tr>
<td>Research</td>
<td>52</td>
</tr>
<tr>
<td>Analytical Chemistry</td>
<td>52</td>
</tr>
<tr>
<td>Biological Chemistry</td>
<td>52</td>
</tr>
<tr>
<td>Inorganic Chemistry</td>
<td>52</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>52</td>
</tr>
<tr>
<td>Physical Chemistry</td>
<td>52</td>
</tr>
<tr>
<td>Facilities</td>
<td>52</td>
</tr>
<tr>
<td>Chemical Physics Program</td>
<td>52</td>
</tr>
<tr>
<td>Admissions</td>
<td>52</td>
</tr>
<tr>
<td>Information for Newly Admitted Students</td>
<td>52</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>53</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>53</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>53</td>
</tr>
<tr>
<td>Course Listings</td>
<td>53</td>
</tr>
<tr>
<td>Classics</td>
<td>54</td>
</tr>
<tr>
<td>Contact Information</td>
<td>54</td>
</tr>
<tr>
<td>Research</td>
<td>54</td>
</tr>
<tr>
<td>Facilities</td>
<td>54</td>
</tr>
<tr>
<td>Program in Classics, Philosophy, and Ancient Science</td>
<td>54</td>
</tr>
<tr>
<td>Admissions</td>
<td>55</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>55</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>55</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>55</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>55</td>
</tr>
<tr>
<td>Course Listings</td>
<td>55</td>
</tr>
<tr>
<td>Communication</td>
<td>57</td>
</tr>
<tr>
<td>Contact Information</td>
<td>57</td>
</tr>
<tr>
<td>Admissions</td>
<td>57</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>57</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>57</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>57</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>57</td>
</tr>
<tr>
<td>Course Listings</td>
<td>57</td>
</tr>
<tr>
<td>Additional Course Offerings</td>
<td>58</td>
</tr>
<tr>
<td>Computer Science</td>
<td>58</td>
</tr>
<tr>
<td>Contact Information</td>
<td>58</td>
</tr>
<tr>
<td>Research</td>
<td>58</td>
</tr>
<tr>
<td>Facilities</td>
<td>58</td>
</tr>
<tr>
<td>Interdisciplinary Programs</td>
<td>58</td>
</tr>
<tr>
<td>Admissions</td>
<td>58</td>
</tr>
<tr>
<td>Prerequisites for Graduate Study</td>
<td>59</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>59</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>59</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>59</td>
</tr>
<tr>
<td>Specialized Master of Science Tracks</td>
<td>59</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>59</td>
</tr>
<tr>
<td>Course Listings</td>
<td>60</td>
</tr>
<tr>
<td>Cultural Studies</td>
<td>61</td>
</tr>
<tr>
<td>Contact Information</td>
<td>61</td>
</tr>
<tr>
<td>Publications</td>
<td>62</td>
</tr>
<tr>
<td>Admissions</td>
<td>62</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>62</td>
</tr>
<tr>
<td>Requirements for the Master’s Certificate</td>
<td>62</td>
</tr>
<tr>
<td>Requirements for the Doctoral Certificate</td>
<td>62</td>
</tr>
<tr>
<td>Course Listings</td>
<td>62</td>
</tr>
<tr>
<td>East Asian Languages and Literatures</td>
<td>63</td>
</tr>
<tr>
<td>Contact Information</td>
<td>63</td>
</tr>
<tr>
<td>Admissions</td>
<td>63</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>63</td>
</tr>
<tr>
<td>Faculty Advisory Committee</td>
<td>63</td>
</tr>
<tr>
<td>Admission to the MA Program</td>
<td>63</td>
</tr>
<tr>
<td>Subject</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Admissions</td>
<td>100</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>100</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>100</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>100</td>
</tr>
<tr>
<td>Course Requirements for Specialization in</td>
<td>100</td>
</tr>
<tr>
<td>Applied Linguistics</td>
<td>101</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>101</td>
</tr>
<tr>
<td>Requirements for the Certificate in TESOL</td>
<td>101</td>
</tr>
<tr>
<td>Course Listings</td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>102</td>
</tr>
<tr>
<td>Contact Information</td>
<td>102</td>
</tr>
<tr>
<td>Research</td>
<td>102</td>
</tr>
<tr>
<td>Facilities</td>
<td>102</td>
</tr>
<tr>
<td>Admissions</td>
<td>102</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>102</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>103</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>103</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>103</td>
</tr>
<tr>
<td>Course Listings</td>
<td>103</td>
</tr>
<tr>
<td><strong>Medieval and Renaissance Studies</strong></td>
<td>104</td>
</tr>
<tr>
<td>Contact Information</td>
<td>104</td>
</tr>
<tr>
<td>Library Resources</td>
<td>104</td>
</tr>
<tr>
<td>Special Features</td>
<td>105</td>
</tr>
<tr>
<td>Admissions</td>
<td>105</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>105</td>
</tr>
<tr>
<td>Requirements for the Certificate</td>
<td>105</td>
</tr>
<tr>
<td>Course Listings</td>
<td>105</td>
</tr>
<tr>
<td><strong>Music</strong></td>
<td>105</td>
</tr>
<tr>
<td>Contact Information</td>
<td>105</td>
</tr>
<tr>
<td>Program in Composition and Theory</td>
<td>105</td>
</tr>
<tr>
<td>Program in Ethnomusicology</td>
<td>106</td>
</tr>
<tr>
<td>Program in Historical Musicology</td>
<td>106</td>
</tr>
<tr>
<td>Admissions</td>
<td>106</td>
</tr>
<tr>
<td>Application Deadlines</td>
<td>106</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>106</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>106</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>107</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>107</td>
</tr>
<tr>
<td>Course Listings</td>
<td>108</td>
</tr>
<tr>
<td><strong>Neuroscience</strong></td>
<td>108</td>
</tr>
<tr>
<td>Contact Information</td>
<td>108</td>
</tr>
<tr>
<td>Research</td>
<td>109</td>
</tr>
<tr>
<td>Admissions</td>
<td>109</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>109</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>109</td>
</tr>
<tr>
<td><strong>Philosophy</strong></td>
<td>109</td>
</tr>
<tr>
<td>Contact Information</td>
<td>109</td>
</tr>
<tr>
<td>The Center for Philosophy of Science</td>
<td>110</td>
</tr>
<tr>
<td>Program in Classics, Philosophy, and Ancient Science</td>
<td>110</td>
</tr>
<tr>
<td>The Department of History and Philosophy of Science</td>
<td>110</td>
</tr>
<tr>
<td>Admissions</td>
<td>110</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>110</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>110</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>110</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>110</td>
</tr>
<tr>
<td>Course Listings</td>
<td>111</td>
</tr>
<tr>
<td><strong>Physics and Astronomy</strong></td>
<td>112</td>
</tr>
<tr>
<td>Contact Information</td>
<td>112</td>
</tr>
<tr>
<td>Research</td>
<td>112</td>
</tr>
<tr>
<td>Facilities</td>
<td>113</td>
</tr>
<tr>
<td><strong>Political Science</strong></td>
<td>115</td>
</tr>
<tr>
<td>Contact Information</td>
<td>115</td>
</tr>
<tr>
<td>Admissions</td>
<td>115</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>115</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>115</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>116</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>116</td>
</tr>
<tr>
<td>Course Listings</td>
<td>117</td>
</tr>
<tr>
<td><strong>Psychology</strong></td>
<td>119</td>
</tr>
<tr>
<td>Contact Information</td>
<td>119</td>
</tr>
<tr>
<td>Research</td>
<td>119</td>
</tr>
<tr>
<td>Facilities</td>
<td>119</td>
</tr>
<tr>
<td>Admissions</td>
<td>119</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>119</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>119</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>120</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>120</td>
</tr>
<tr>
<td>Course Listings</td>
<td>120</td>
</tr>
<tr>
<td><strong>Religious Studies</strong></td>
<td>121</td>
</tr>
<tr>
<td>Contact Information</td>
<td>121</td>
</tr>
<tr>
<td>Admissions</td>
<td>121</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>122</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>122</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>122</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>122</td>
</tr>
<tr>
<td>Course Listings</td>
<td>123</td>
</tr>
<tr>
<td><strong>Slavic Languages and Literatures</strong></td>
<td>125</td>
</tr>
<tr>
<td>Contact Information</td>
<td>125</td>
</tr>
<tr>
<td>Admissions</td>
<td>125</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>125</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>125</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>126</td>
</tr>
<tr>
<td>Requirements for the PhD Program</td>
<td>126</td>
</tr>
<tr>
<td>Course Listings</td>
<td>127</td>
</tr>
<tr>
<td><strong>Sociology</strong></td>
<td>128</td>
</tr>
<tr>
<td>Contact Information</td>
<td>128</td>
</tr>
<tr>
<td>Facilities</td>
<td>128</td>
</tr>
<tr>
<td>Publications</td>
<td>128</td>
</tr>
<tr>
<td>Admissions</td>
<td>128</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>129</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>129</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>129</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>129</td>
</tr>
<tr>
<td>Course Listings</td>
<td>129</td>
</tr>
<tr>
<td><strong>Statistics</strong></td>
<td>130</td>
</tr>
<tr>
<td>Contact Information</td>
<td>130</td>
</tr>
<tr>
<td>Research</td>
<td>130</td>
</tr>
<tr>
<td>Facilities</td>
<td>130</td>
</tr>
<tr>
<td>Admissions</td>
<td>130</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>131</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>131</td>
</tr>
<tr>
<td>Requirements for the Master’s Degree</td>
<td>131</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>131</td>
</tr>
<tr>
<td>Course Listings</td>
<td>131</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master's Degree Requirements</td>
<td>180</td>
</tr>
<tr>
<td>Common Requirements</td>
<td>181</td>
</tr>
<tr>
<td>Quality Point Average/Academic Probation</td>
<td>181</td>
</tr>
<tr>
<td>Statute of Limitations</td>
<td>181</td>
</tr>
<tr>
<td>Plan of Studies</td>
<td>181</td>
</tr>
<tr>
<td>Master's Comprehensive Examination</td>
<td>182</td>
</tr>
<tr>
<td>Master's Degree with Thesis</td>
<td>182</td>
</tr>
<tr>
<td>Master's Degree with Thesis Equivalent</td>
<td>182</td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td>183</td>
</tr>
<tr>
<td>Doctoral Degree Requirements</td>
<td>183</td>
</tr>
<tr>
<td>Credit Requirements</td>
<td>184</td>
</tr>
<tr>
<td>Statute of Limitations</td>
<td>184</td>
</tr>
<tr>
<td>Doctoral Preliminary Examination</td>
<td>185</td>
</tr>
<tr>
<td>Advancement to Doctoral Study</td>
<td>185</td>
</tr>
<tr>
<td>Doctoral Comprehensive Examination</td>
<td>185</td>
</tr>
<tr>
<td>Dissertation</td>
<td>186</td>
</tr>
<tr>
<td>Approval of Research with Human Subjects</td>
<td>186</td>
</tr>
<tr>
<td>Advancement to Doctoral Candidacy</td>
<td>186</td>
</tr>
<tr>
<td>Dissertation</td>
<td>186</td>
</tr>
</tbody>
</table>

**Department of Administrative and Policy Studies** 187

- Admission ........................................................................ 187
- School Leadership Development Program ................................ 187
- Higher Education Administration Program ................................ 188
- Social and Comparative Analysis in Education (SCAE) ............. 188
- Department of Administrative and Policy Studies Courses .......... 188

**Department of Health, Physical, and Recreation Education** 190

- Contact Information .............................................................. 190
- Admission .................................................................................. 190
- Degree Options .......................................................................... 190
- Developmental Movement Program ............................................ 191
- Exercise Physiology Program ................................................ 191
- Health Promotion and Education Program ................................ 191
- Sports Medicine Program .......................................................... 191
- Department of Health, Physical, and Recreation Education Courses ........................................................................ 191

**Department of Instruction and Learning** 192

- Admission .................................................................................. 192
- Cognitive Studies Program .................................................... 192
- Early Childhood Education Program ........................................ 193
- Elementary Education Program ................................................ 194
- Reading Education Program ..................................................... 194
- Secondary Education Program .................................................. 195
- English/Communications Education Specialization .................... 195
- Mathematics Education Specialization ..................................... 196
- Science Education Specialization .......................................... 196
- Social Studies Education Specialization ................................... 198
- Foreign Language Education Specialization ................................ 198
- Special Education Program ...................................................... 199
- Supervisor of Special Education ............................................ 200
- Special Education Doctoral Degrees ...................................... 200
- Admission to Doctoral Programs in Special Education .......... 200
- Education of Deaf and Hard-of-Hearing Students Specialization ................................................................. 200
- Early Intervention for Children with Disabilities Specialization .......................................................... 201
- Mental and Physical Disabilities Specialization ................. 201

**Department of Educational Psychology in Education** 207

- Child Development and Child Care (CD&CC) Program ......... 207
- Contact Information ................................................................. 207
- Admission Application Process ............................................... 208
- Financial Assistance ................................................................. 208
- Advising and Placement .............................................................. 208
- CD&CC Program Requirements .................................................. 208
- CD&CC Curriculum ...................................................................... 208
- Specializations .......................................................................... 209
- Child Development and Child Care Courses ........................ 209
- School Counseling Program ....................................................... 209
- Admission to School Counseling Program ............................ 209
- School Counseling Degree and Certification Options .......... 209
- Developmental and Educational Psychology Program ............ 210
- Admission to Developmental and Educational Psychology Program ........................................................ 210
- Research Methodology Program ................................................. 210
- Admission to Research Methodology Program ....................... 210
- Research Methodology Program Degree Options .................. 211
- Department of Psychology in Education Courses .................. 211

**School of Education Faculty** 212

- Department of Administrative and Policy Studies .................. 212
- Department of Health, Physical, and Recreation Education ...... 213
- Department of Instruction and Learning .................................. 213
- Department of Psychology in Education .................................. 215

**SCHOOL OF ENGINEERING** 216

- Contact Information ................................................................. 216
- Admissions .................................................................................. 216
- Financial Aid ................................................................................ 217
- Advisors ...................................................................................... 217
- Responsibility for Academic Progress ...................................... 217
- Master of Science Programs ..................................................... 217
- Doctor of Philosophy Programs ................................................. 218
- Entrance to the PhD Program ..................................................... 218
- Course and Dissertation Credit Requirements ....................... 218
- Doctor of Philosophy Examinations ............................................ 218
- Preliminary Examination (Qualifier) .......................................... 218
- Comprehensive Examination ..................................................... 218
- Final Oral Examination (Defense) ............................................... 219
- Admission to PhD Candidacy ..................................................... 219
- Doctoral Committee .................................................................. 219
- PhD Dissertation ......................................................................... 219

**Department of Bioengineering** 219

- Contact Information ................................................................. 219
- Master of Science Programs ..................................................... 220
- Doctor of Philosophy Program .................................................. 220
- Bioengineering Graduate Courses ............................................ 220

**Department of Chemical and Petroleum Engineering** 220

- Contact Information ................................................................. 221
- Master of Science in Chemical Engineering (Research-Oriented Program) ......................................................... 221
- Master of Science in Chemical Engineering (Professional Engineer Program) ...................................................... 221
- Master of Science in Petroleum Engineering ......................... 221
- Dual Master's Degree ................................................................. 222
### TABLE OF CONTENTS

- **Department of Library and Information Science** ........................................ 266
  - Contact Information ......................................................... 266
  - Admissions ..................................................................... 266
  - Master of Library and Information Science (MLIS) Program .................. 266
    - MLIS Degree Requirements ............................................. 266
  - Doctor of Philosophy in Library and Information Science (PhD - LIS) Program ... 267
    - PhD - LIS Admission Requirements .................................. 267
    - PhD - LIS Degree Requirements ...................................... 267
    - Statute of Limitations ................................................... 268
  - School Library Certification Program (SLCP) ........................................ 268
  - Supervisor of Library Science Certification (SLSC) Program ....................... 268
  - Certificate of Advanced Study in Library and Information Science (CAS/LIS) Program ... 269
  - DLIS Course Listings .......................................................... 269

- **School of Information Sciences Faculty** .................................................. 270
  - Department of Information Science and Telecommunications ............... 270

- **School of Law-MSL Degree** ................................................................. 272
  - Contact Information .................................................................. 272
  - Admissions ........................................................................ 272
  - Financial Assistance .................................................................. 272
  - Academic Standards .................................................................. 272
  - Advising and Placement ........................................................ 272
  - Degree Requirements ................................................................ 272
  - Major and Degree Options .................................................... 272

- **Faculty of School** ............................................................................. 272

- **School of Medicine** ....................................................................... 273
  - Clinical Research Training Program (CRTP) ........................................ 273
    - Contact Information .......................................................... 273
  - Interdisciplinary Biomedical Science Graduate Program ...................... 273
    - Contact Information .......................................................... 273
    - Admissions ........................................................................ 273
    - Financial Assistance .......................................................... 273
    - Academic Standards ......................................................... 273
    - General Degree Requirements – All Interdisciplinary Biomedical Science Students ... 274
    - Biochemistry and Molecular Genetics Program ................................ 274
    - Cell Biology and Physiology Program .................................... 274
    - Cellular and Molecular Pathology Program ................................ 275
    - Human Genetics Program .................................................. 275
    - Immunology Program ......................................................... 275
    - Molecular Pharmacology Program ........................................ 275
    - Molecular Toxicology Program ............................................ 276
    - Molecular Virology and Microbiology Program ............................. 276
    - Neurobiology ...................................................................... 276
    - Interdisciplinary Biomedical Science Graduate Program Faculty ...... 277

---

**Master of Physical Therapy (MPT)** ......................................................... 252
- Admission Requirements .......................................................... 252
- Application Process .................................................................. 252
- Admission Status ..................................................................... 253
- Statute of Limitations ............................................................... 253
- Master of Physical Therapy Curriculum ........................................ 253

**COURSE LISTINGS** ........................................................................ 254
- Master of Physical Therapy ....................................................... 254
- SHRS Graduate ....................................................................... 254
- Communication Science and Disorders ...................................... 255

**School of Health and Rehabilitation Sciences Faculty** .......... 256
- Department of Clinical Dietetics ................................................ 256
- Department of Communication Science and Disorders .................. 256
- Department of Health Information Management ......................... 256
- Department of Occupational Therapy .......................................... 256
- Department of Physical Therapy ................................................ 257
- Department of Rehabilitation Science and Technology .............. 257

**SCHOOL OF INFORMATION SCIENCES** .............................................. 258
- Mission of the School .............................................................. 258
- Goals of the School .................................................................. 258
- Contact Information ............................................................... 258
- Admission .............................................................................. 258
- Financial Assistance .............................................................. 259
- Academic Standards .................................................................. 259
- Transfer of Credits .................................................................... 259
- Satisfactory/Audit (S/N) Grading System .................................... 259
- Advising and Placement .......................................................... 259
- Major and Degree Options ..................................................... 259
- Special Academic Opportunities/Programs ................................ 260
- Colloquia ................................................................................ 260
- Continuing Education .............................................................. 260
- Student Organizations .............................................................. 260
- Alumni Association .................................................................. 260
- Beta Phi Mu ............................................................................. 260

**Department of Information Science and Telecommunications** ........ 260
- Contact Information .............................................................. 261
- Admissions ............................................................................ 261
- Registration and Residence Requirements .................................. 261
- Master of Science in Information Science (MSIS) Program ............ 261
  - MSIS Admission Prerequisites ............................................... 262
  - MSIS Degree Requirements .................................................. 262
  - MSIS Statute of Limitations .................................................. 262
- Master of Science in Telecommunications (MST) Program .............. 262
  - MST Admission Prerequisites ............................................... 262
  - MST Requirements ............................................................. 262
  - MST Statute of Limitations .................................................... 262
- Doctor of Philosophy in Information Science (PhD - IS) Program .... 262
  - PhD - IS Admission Requirements ....................................... 263
  - PhD - IS Degree Requirements ............................................ 263
  - PhD Statute of Limitations ................................................... 263
- Certificates – Information Science and Telecommunications .......... 264
- DIST Course Listings ............................................................... 264
- Graduate Courses in Telecommunications .................................. 265

---
## UNIVERSITY OF PITTSBURGH

### SCHOOL OF NURSING

- **Mission** .......................................................... 285
- **Contact Information** ........................................... 285
- **Admission Process** ............................................ 285
- **Master’s Program Admission Criteria** ..................... 285
- **Doctoral Program Admission Criteria** ....................... 286
- **Readmission** ...................................................... 286
- **Admission of Students from Other Countries** ............ 286
- **Health Care Requirements** ..................................... 287
- **Financial Assistance** ............................................ 287
- **Academic Standards** ............................................ 287
- **Advising and Placement** ....................................... 288
- **General Degree Requirements** ............................... 288
- **Application for Graduation** .................................... 288
- **Major and Degree Options** ................................... 288
- **Special Academic Opportunities/Programs** .............. 289
- **Educational Resources** ........................................ 290
- **Computer Resources** .......................................... 290
- **Research Resources** ............................................ 290
- **RN-MSN Option** ................................................ 290
- **RN-MSN Option Admission and Prerequisite Requirements** .................................................. 290

### Master’s Program Descriptions ....................................... 291

- **Core Courses: All Master’s Programs** ....................... 291
- **Elective Courses** ................................................. 291
- **Acute Care Nurse Practitioner (ACNP) Major** ............ 291
  - **Acute Care Nurse Practitioner Curriculum** ............ 292
  - **Acute Care Nurse Practitioner Course Listings** ....... 292
- **Nurse Anesthesia Major** ....................................... 292
  - **Nurse Anesthesia Applicant Requirements** ............ 292
  - **Nurse Anesthesia Curriculum** .............................. 292
  - **Nurse Anesthesia Course Listings** ....................... 293
- **Health Promotion and Development Major** ............... 293
  - **Family Nurse Practitioner (FNP)** ......................... 293
  - **Pediatric Nurse Practitioner (PNP)** ...................... 294
  - **PNP Applicant Requirements** ............................... 294
  - **Pediatric Nurse Practitioner Curriculum** .............. 294
  - **Pediatric Nurse Practitioner Course Listings** ....... 294
- **Women’s Health Nurse Practitioner (WHNP)** ............. 295
  - **Women’s Health Nurse Practitioner Curriculum** ...... 295
  - **Women’s Health Nurse Practitioner Course Listings** 295
- **Health and Community Systems Major** .................... 295
  - **Psychiatric Primary Care Nurse Practitioner** ......... 295
  - **Nursing Administration** ...................................... 296
  - **Nursing Education** .......................................... 297
  - **Nursing Research** ........................................... 298
  - **Nursing Informatics** ......................................... 298

### Doctoral Program Description ...................................... 299

- **Admission to the Doctoral Program** ......................... 299
- **Length of Program** ............................................ 300
- **Sample Curriculum Design:**
  - **Post-Master’s to PhD Program** ............................ 300
- **Preliminary and Comprehensive Examinations** .......... 300
- **Dissertation Committee** ...................................... 300
- **Admission to Candidacy for the Doctoral Degree** ....... 301
- **Residency Requirement** ....................................... 301
- **Dissertation and Abstract** .................................... 301
- **Doctoral Program Course Listings** ........................ 301

### School of Nursing Faculty ............................................. 301

### SCHOOL OF PHARMACY — GRADUATE (PHD/MS) PROGRAM ......... 304

- **Contact Information** ........................................... 304
- **Admissions** ..................................................... 304
- **Financial Assistance** .......................................... 304
- **Academic Standards** .......................................... 304
- **Degree Options** ................................................ 304
- **Special Academic Opportunities** .......................... 304
- **Program Descriptions** ......................................... 304

### Master of Science in Pharmaceutical Sciences .................... 305

- **PhD in Pharmaceutical Sciences** ............................ 305
  - **Curriculum for PhD in Pharmaceutical Sciences** .... 305
  - **Comprehensive Exam and Dissertation** ............... 305

### Course Listings .......................................................... 306

### School of Pharmacy Faculty .......................................... 306

### GRADUATE SCHOOL OF PUBLIC HEALTH ........................ 307

- **Contact Information** ........................................... 307
- **Admissions** ..................................................... 307
- **General Admission Requirements for Degree Programs** .................................................. 308
- **Application Procedure: Degree Programs** ............. 308
- **Application Procedure: Non-Degree Status Applicants** .................................................. 309
- **Financial Assistance** .......................................... 309
- **Academic Standards** .......................................... 309
- **Advising and Placement** ....................................... 310
- **General Degree Requirements** ............................... 310
  - **General Requirements (all degrees)** .................... 310
  - **GSPH Core Courses** ....................................... 310
  - **General Requirements for Master’s Degrees** .......... 310
  - **General Requirements for Doctoral Degrees** ......... 311
  - **Major and Degree Options** ................................. 311

### Department of Biostatistics ........................................ 311

- **Contact Information** ........................................... 311
- **Admissions** ..................................................... 311
- **Finanical Assistance** .......................................... 312
- **Requirements for Master’s Degrees** ....................... 312
- **Requirements for the Doctoral Degrees** ................. 312

### Department of Environmental and Occupational Health .... 312

- **Major Educational Areas and Programs** ................. 312
- **Research Programs** ............................................ 313
- **Facilities** ...................................................... 313
- **Contact Information** ........................................... 313
- **Admission** ..................................................... 313
- **Program Requirements** ....................................... 313
  - **Master of Science and Master of Public Health** ..... 313
    - **(Non-Physician) Students** ............................. 313
    - **PhD Students** .............................................. 313
  - **MPH Students in Occupational Medicine** .............. 313
  - **Certificate in Environmental Health Risk Assessment** 314
  - **Certificate in Radiation Health** ........................ 314

### Department of Epidemiology ......................................... 314

- **Major Educational Areas** ..................................... 314
- **Research** ....................................................... 314
- **Contact Information** ........................................... 314
- **Admissions** ..................................................... 314
- **Financial Assistance** .......................................... 315
- **Program Requirements: Master’s and Doctorate Curricula** .................................................. 315
TABLE OF CONTENTS

Departmental Core Courses ........................................... 315
Master's Program Course Requirements ............................. 315
Doctoral Program Requirements ........................................ 315
Additional Frequently Used Courses ................................. 315

Department of Health Services

Administration ................................................................ 316
Affiliated Educational Certificate Programs ....................... 316
Certification in Public Health and Aging ............................. 316
Management of Nonprofit Organization
Certification Program ......................................................... 316
Certificate in Women's Studies ........................................... 317
Certificate in Latin American Studies ................................. 317
Research Focus .................................................................... 317
Contact Information .......................................................... 317
Admission: MPH Applicants ............................................. 317
Admission: MPH/PhD in Social Work Applicants ................. 317
Admission: MHPE Applicants ............................................ 318
Admission: MPH/JD Applicants .......................................... 318
Admission: MHA, MHA/MBA, and MHA/MPP Applicants ......... 318
Admission: DrPH Applicants ............................................. 318
Financial Assistance ......................................................... 318
Requirements for Master's Degrees .................................... 318
Master of Public Health (MPH) Requirements .................... 318
MPH/JD Requirements .................................................... 318
MPH/PhD in Social Work Requirements ............................. 319
MPH/MPA/MPIA Requirements ......................................... 319
Master of Health Promotion and Education (MHPE) Requirements ......................................................... 319
Master of Health Administration (MHA) Requirements ........ 319
Requirements for the Doctor of Public Health Program ........ 319
Requirements for Certificate Programs ............................... 319
Certification in Public Health and Aging ............................. 319
Management of Nonprofit Organizations
Certification Program ......................................................... 319
Certificate in Women's Studies ........................................... 319
Certificate in Latin American Studies ................................. 319

Department of Human Genetics ....................................... 319
Major Educational Areas and Programs .............................. 320
Human Genetics ............................................................... 320
Genetic Counseling .......................................................... 320
Research ............................................................................ 320
Contact Information .......................................................... 320
Admission .......................................................................... 320
Financial Assistance .......................................................... 320
Program Requirements ..................................................... 320
MS in Human Genetics Requirements ............................... 320
MS in Genetic Counseling Requirements ........................... 321
PhD Human Genetics Requirements ................................. 321

Department of Infectious Diseases and Microbiology (IDM) ........................................... 321
Contact Information .......................................................... 321
Admission .......................................................................... 321
Early Admission into the PhD and MS Programs ................ 321
Standard Admission into the PhD and MS Programs .......... 322
Financial Assistance .......................................................... 322
Program Requirements ..................................................... 322
Requirements for Master's and Doctoral Degrees ............... 322
Requirements for PhD ....................................................... 322
DrPH Program Requirements ............................................ 322
MS Program Requirements ................................................. 323
MPH Program Requirements ............................................. 323

Multidisciplinary Master of Public Health Program

Contact Information .......................................................... 323
Program Requirements ..................................................... 323

GSPH Course Offerings .................................................... 324
Graduate School of Public Health

Faculty .............................................................................. 326

GRADUATE SCHOOL OF PUBLIC AND INTERNATIONAL AFFAIRS ........................................... 333
Contact Information .......................................................... 333
Admissions ............................................................................ 333
Non-Degree Admission ................................................... 334
Admission Prerequisites ................................................... 334
Admission Deadlines ....................................................... 334
Financial Assistance ......................................................... 334
Academic Standards ......................................................... 334
Advising and Placement ................................................... 334
Master's Degree Requirements ......................................... 335
Major and Degree Options ............................................... 335
Special Academic Opportunities/Programs ....................... 336

Master of Public Administration (MPA) ........................................... 336
Requirements for the Master of Public Administration ........ 336
Policy Research and Analysis (PRA) .................................. 337
Required courses ............................................................ 337
Public and Nonprofit Management (PNM) ......................... 337
Required courses ............................................................ 337
Urban and Regional Affairs (URA) ...................................... 337
Required courses ............................................................ 337
Criminal Justice (CJ) Minor .............................................. 338
Environmental Management and Policy (EMP) Minor ........ 338
Nonprofit and Nongovernmental Organizations (NGO) Minor ................................................................. 338
Personnel and Labor Relations Minor ............................... 338
Requirements for the Certificate in Personnel and Labor Relations ................................................................. 339
MPA Program Course Listings .......................................... 339

Master of Public and International Affairs (MPIA) ........................................... 340
Requirements for Masters of Public and International Affairs ................................................................. 340
Economic and Social Development Major (MPIA/ESD) ........ 340
Human Resource Management in Development ................ 341
Global Political Economy Major ........................................ 341
Security and Intelligence Studies Major ............................. 342
MPIA Program Course Listings .......................................... 342

Master of Public Policy and Management (MPPM) ........................................... 343
Requirements for Masters of Public Policy and Management (MPPM) ................................................................. 343

Doctor of Philosophy in Public and International Affairs ........................................... 343
Requirements for the PhD .................................................. 343
Advanced Standing .......................................................... 344
Mentors ............................................................................ 344
Preliminary Planning Meeting ............................................ 344
THE UNIVERSITY OF PITTSBURGH

ABOUT THE UNIVERSITY

The University of Pittsburgh is an internationally respected center of learning and research, offering exceptional educational opportunities in the humanities, sciences, and professions. The University’s mission is to advance teaching, research, and public service. This tripartite commitment enables the University to serve others by:

• educating diverse students from the region, the nation, and the world;

• expanding the boundaries of knowledge, discovery, and technology; and

• enhancing quality of life in the western Pennsylvania region and beyond.

HISTORY

The University began in the Pennsylvania wilderness as the Pittsburgh Academy in 1787, the year the U.S. Constitution was adopted. Thirty-two years later, the Pittsburgh Academy became the Western University of Pittsburgh, and in 1908, the school changed its name to the University of Pittsburgh.

The recognition of graduate study at the University of Pittsburgh began with the awarding of Master of Arts degrees in 1836. By 1870, over 30 MA degrees had been awarded. These degrees were conferred for study beyond the Bachelor of Arts degree. In 1884, Chancellor Milton Goff set up a two-year professional study program leading to either a Master of Philosophy (predecessor of the Master of Science degree) or a Master of Arts degree and a three-year program leading to a Doctor of Philosophy degree. Before admission to these programs, each student was required to show proficiency in three areas of study. Both master’s and doctoral candidates were required to prepare and defend theses.

In 1906, new rules were formulated for graduate study, requiring students to be in residence and requiring the completion of one year of study or 30 credits for the master’s degree and three years or 90 credits for the doctoral degree. The catalogues of 1908 and 1909 announced the establishment of the Graduate School with five departments offering courses for the Doctor of Philosophy degree. These departments, plus five others, offered courses for the Master of Arts degree.

In 1910, a faculty committee drafted proposals, adopted by the board of trustees in 1913, making the Graduate School an independent administrative unit of the University and authorizing the selection of a Graduate Council. The Graduate School was grouped into three divisions (Humanities, Social Sciences, and Natural Sciences) in 1947. Until 1956, the administration of graduate study was the responsibility of the dean of the Graduate School and the Graduate Council. At that time, the individual schools and the three divisions were given direct administrative responsibility for their graduate programs in accord with the regulations established by the University Council on Graduate Study—formerly the Graduate Council. In 1968, the dean of the Graduate School retired from his administrative role, and the position he had held was discontinued. General responsibility for the University’s graduate programs was assigned to the provost pending reorganization of the University’s graduate structure. The University Council on Graduate Study, the University administration, and members of the Graduate Faculty cooperated in drafting a proposed reorganization of graduate study, which was approved by written ballot by the entire Graduate Faculty and, in turn, accepted by Chancellor Wesley Posvar. This organizational structure became effective July 1, 1971 and is still the official structure.

Thus, during the 200-plus year history of the University, graduate education has grown to encompass the Faculty of Arts and Sciences and all 13 of the professional schools, which share a commitment to meet the nation’s need for well-educated researchers, scholars, and leaders of professions and the tri-state region’s need for trained professionals.

A private institution for most of its past, the University of Pittsburgh became state-related in 1966, establishing a relationship with the Commonwealth of Pennsylvania that continues to benefit both partners. Today, as an elected member of the prestigious Association of American Universities, the University of Pittsburgh claims its place among the top public research universities in the nation.

ACCREDITATION

The University of Pittsburgh, including its four regional campuses, is accredited by the Middle States Association of Colleges and Schools’ Commission on Higher Education. In addition, schools, programs, and departments may be accredited by discipline-specific accrediting bodies. See Schools, Departments, and Programs section of this bulletin for this information.

ACADEMIC ORGANIZATION AND PITTSBURGH

CAMPUS OVERVIEW

An independent, state-related, coeducational institution, the University of Pittsburgh’s Pittsburgh campus offers a multitude of degree-granting and other programs housed in 16 undergraduate, graduate, and professional schools. The University system includes the Pittsburgh campus and four regional campuses at Bradford, Greensburg, Johnstown, and Titusville; the regional campuses offer undergraduate programs only.

More than 90 buildings are located on the Pittsburgh campus, which covers 132 acres in the culturally rich Oakland neighborhood. At the heart of the campus stands a central landmark—the Cathedral of Learning, a 42-story Gothic tower, which is the tallest school building in the western hemisphere. The Cathedral contains the remarkable Nationality Rooms: 26 classrooms, each of them designed to reflect a distinct culture.

On the Pittsburgh campus, over 3,400 faculty serve 25,900 students, including 9,100 graduate and 16,800 undergraduate students. Alumni accomplishments range from managing Fortune 500 corporations, to writing best-selling novels, to unlocking the secrets of DNA...and more.

The University of Pittsburgh remains a place of enduring tradition and vitality, true to the work ethic of western Pennsylvania, rich in intellectual rigor, and committed to preparing students for their lives and careers.
WEB ADDRESS

For more information on the University of Pittsburgh, see the University’s Web site at http://www.pitt.edu/.

ORGANIZATION OF GRADUATE AND PROFESSIONAL EDUCATION AT THE UNIVERSITY

While the University Council on Graduate Study (http://www.pitt.edu/~graduate/ucgs.html), acting for the Graduate Faculty, develops minimum standards for graduate work throughout the University, the immediate responsibility for developing and administering graduate programs is assigned to the deans and Graduate Faculty members of the several schools and the Faculty of Arts and Sciences. This responsibility applies both to the traditional MA, MS, and PhD programs and to programs leading to advanced professional degrees, except for first-professional degrees (i.e., the MD, JD, LLM, PharmD, and DMD). The provost has responsibility for the general supervision of graduate and professional programs, including first-professional degree programs, throughout the University, giving leadership to the deans and faculties in maintaining high standards of instruction and research.

Faculty are appointed to the Graduate Faculty by the provost upon recommendation by the dean on the basis of an appraisal by the faculty of a department or other appropriate faculty group. Graduate Faculty are competent in graduate instruction and in supervision of student research at all levels and are active in advancing knowledge through their own research.
APPLICATION FOR ADMISSION

Graduate admissions to the University of Pittsburgh are handled by the particular graduate school or program; there is no central admissions office for graduate and professional schools at the University.

This section details only the University requirements and procedures for admission to the University. The Graduate Admissions Office of each school provides admissions information for prospective students to that school. Schools’ admissions requirements are listed under the Schools, Departments, and Programs section of this bulletin.

The admissions information in this section is subject to change at any time. It is intended to serve only as a general source of information.

GRADUATE ADMISSIONS

Decisions regarding admission are based on an overall evaluation of all the credentials submitted by the candidate and in accord with the availability of faculty, facilities, and student support necessary to meet the applicant’s expressed academic and research needs and interests. Many departments or programs have a limited number of places available. Interested students should refer to the Schools, Departments, and Programs section of this bulletin in addition to the general admission information provided here.

APPLICATION PROCEDURES

Students seeking admission should call or write for application forms and descriptive materials to the school or program of intended graduate study. In many cases, application materials are available online; prospective students are encouraged to check the Web site of their programs of interest. See Schools, Departments, and Programs sections of this bulletin for contact information.

Students should then return to the department or school the completed application forms and a check (not cash) for the application fee payable to the University of Pittsburgh. Generally, students applying online have the option of paying application fees online via credit card or by sending a check. The application fee is required of all applicants and is non-refundable; it does not apply toward the payment of tuition. The fee varies from school to school, so prospective students should refer to the information on the relevant school in the Schools, Departments, and Programs section of this bulletin for the specific application fee required or go to that school’s or department’s Web site.

Applicants must also request that the registrars of all undergraduate and any graduate schools attended send official transcripts of their records to the department or school of intended graduate study. In addition, many schools and departments require additional material. These materials may include any or all of the following: scores achieved on standardized examinations such as the Graduate Record Examination or the Graduate Management Admission Test, letters of recommendation, term papers written during previous study, evidence of work/life experience, evidence of motivation for graduate study, and a statement of career objectives. Applicants should arrange for a personal interview if requested by the department or school.

APPLICATION DEADLINES

See the Schools, Departments, and Programs sections of this bulletin for specific application deadlines, but note that students applying for fellowships and assistantships should file their applications at the earliest possible date. Applicants interested only in admission may be considered up to the deadline dates, but postponing applications may entail the risk that available spaces will be filled. Some programs admit students only for a particular term, so prospective students are encouraged to check with the school and program for specific admissions information.

GRADUATE ADMISSIONS OF INTERNATIONAL STUDENTS

Students from other countries should start the application process for admission nine to 12 months in advance of the date of intended enrollment and complete the process no less than three months before the registration date for the student’s first term. Some schools may require even earlier applications. Applicants wanting to be considered for financial assistance must submit completed applications much earlier. Requests for application forms should be directed to the school in which the student wishes to enroll. All applicants should also take note of specific school and program requirements, such as the Graduate Record Examination (GRE scores). Specific requirements are listed in the Schools, Departments, and Programs section of this bulletin.

INTERNATIONAL STUDENT ACADEMIC BACKGROUND AND CREDENTIALS

The minimum requirement for admission to a graduate program is the completion of a bachelor’s degree from an accredited institution in the United States or the completion of a level of education that the University of Pittsburgh deems comparable to a bachelor’s degree from a regionally accredited U.S. institution.

Applicants are required to submit official original academic credentials. Official original academic credentials that are issued in a regionally accredited U.S. institution.

Applicants are required to submit official original academic credentials. Official original academic credentials that are issued in a language other than English must be accompanied by a certified English translation. In addition, in cases where the grade reports, academic record, examination results, or transcript does not attest to the awarding of a degree or other academic qualification, a certified copy of the original certificate or diploma awarding the degree or qualification must be submitted. Certificates or diplomas that are
issue in a language other than English must be accompanied by a certified English translation.

ENGLISH LANGUAGE PROFICIENCY REQUIREMENTS
Graduate students must possess sufficient proficiency in English to enable them to understand lectures, participate successfully in class discussion, and, in general, to be able to study without being hindered by language problems. To facilitate determination of proficiency, official results of the Test of English as a Foreign Language (TOEFL) are required if the applicant’s native language is not English; this applies even if English has been the medium of instruction. A minimum score of 550 or higher on the TOEFL is required for admission to graduate study (or a TOEFL score of 213 on the computer-based test).

All students with a TOEFL score less than 650 (or 280 on the computer-based test) may be required by the department, program, or school to take the Michigan Test of English Proficiency upon arrival. Based on the test results, students may be required by their academic department to take courses in English as a foreign language before registering for graduate courses or may be required to take one or two such English courses in addition to graduate courses.

Any student scoring over 650 on the paper-based test (over 280 on the computer-based test) is exempted from further testing. The requirement to submit the results of the TOEFL may be waived if the applicant has recently received a satisfactory score on other tests of English language proficiency or has recently earned a degree from a regionally accredited institution in the United States.

The Educational Testing Service administers the TOEFL test at testing centers throughout the world. Students may take the test either in a traditional paper format or on a computer. Further information, testing dates, and test applications are available directly from the Test of English as a Foreign Language, Box 6151, Princeton, New Jersey, 08541, USA or by contacting a U.S. Consulate, an office of the U.S. Information Agency, an office of the U.S. Educational Commission, or a binational center. Information about the TOEFL is also available on the World Wide Web at http://www.toefl.org/. Applicants seeking September enrollment must take the TOEFL no later than the preceding March.

International students who are non-native speakers of English can contact the English Language Institute (ELI) on the University of Pittsburgh campus for assistance in meeting English proficiency requirements and taking the TOEFL. See the Campus Facilities & Student Services section of this bulletin, page 9, for more information on the ELI.

ENGLISH LANGUAGE FLUENCY FOR TEACHING ASSISTANTS/ FELLOWS
Teaching assistants (TAs) and teaching fellows (TFs) who are non-native speakers of English must be evaluated through a test designed to assess spoken English and English comprehension, approved by the Office of the Provost and administered by the English Language Institute (ELI). The Office of the Provost in consultation with ELI will establish minimum scores acceptable to permit a TA/TF to teach. Individual academic centers or departments may require higher scores than the established University minimums. All TAs/TFs with unsatisfactory scores on this test will be given non-teaching assignments and are required to take special course work until they attain a passing score. An unsatisfactory score at the time of reappointment is sufficient cause for nonrenewal of the student’s TA/TF appointment. See relevant school section in Schools, Departments, and Programs for more details.

FINANCIAL SUPPORT AND VISA DOCUMENTS
While admission decisions are not based on financial support information, all applicants who are not U.S. citizens or Permanent Residents must submit a Financial Support Statement with their applications, even if applying for financial aid from the department. An award may not cover the entire cost of studies.

The Office of International Services cannot issue the document needed to apply for a student visa to enter the United States or to transfer non-immigrant status to the University of Pittsburgh until evidence of financial support adequate to cover the entire program of study has been submitted. Therefore, submission of a Financial Support Statement with an application will facilitate the issuance of a visa document.

ADDITIONAL INTERNATIONAL STUDENT REQUIREMENTS
The University of Pittsburgh reserves the right, even after arrival and enrollment, to make individual curricular adjustments whenever particular deficiencies or needs of a student are identified. In such instances, students may be required to take, at their own expense and without receiving credit, courses in English as a foreign language (see English Language Proficiency Requirements above) or courses prerequisite to their course of study to make up deficiencies.

It is strongly recommended that students arrive in Pittsburgh at least two weeks before the start of the term to allow sufficient time to make housing arrangements and take part in the orientation program conducted by the Office of International Services. In addition, the advising section of the Office of International Services, located in 708 William Pitt Union, offers assistance on a wide range of matters of concern to students from other countries. Call (412) 624-7120 or see http://www.pitt.edu/~osaweb/ois/oisinfo.html for more information.

ADMISSIONS STATUS
Admission may be granted or denied only by the dean of the school or his or her designee. However, non-immigrant students may be denied visa documents for non-academic reasons by the Office of International Services. Acceptable students are admitted to graduate study in a specific department or school with “full,” “provisional,” or “special” graduate status depending on their qualifications and objectives. The qualifications described below represent the minimum standards of the University. These may be made more stringent or specific at the option of the department or school.

FULL GRADUATE STATUS
For admission to full graduate status, an applicant must be a graduate of an accredited U.S. college or university and must be considered qualified for advanced study by the department or school. This normally is demonstrated by a B average (a quality point average of 3.00 on a 4.00 scale) or better in the total undergraduate program. (Note: the Faculty of Arts and Sciences requires a B average in the major field of study, and some of that school’s departments require higher levels of achievement.) If students with less than a B average present alternative evidence (such as completion of an advanced degree or successful relevant work experience) of superior ability, they may be considered for full graduate status on the recommendation of the department of proposed graduate study. Only students with full graduate status may take the PhD preliminary evaluation, take the
MA/MS or PhD comprehensive examination, be considered for the award of an advanced degree or certificate, or be graduated.

**PROVISIONAL GRADUATE STATUS**

Applicants who are graduates of a recognized college or university but who do not qualify for admission to full graduate status because of deficiencies in either their undergraduate program or their scholastic achievement may be considered for provisional graduate status if strong supporting evidence of their ability to complete a graduate program is provided. Courses taken to remove deficiencies do not contribute toward completion of graduate degree requirements. Transfer from provisional to full graduate status is initiated and recommended by the department and is possible only after removal of deficiencies and other conditions noted at the time of admission and satisfactory progress in graduate work.

A student on provisional or special status or on probation is not eligible to take the PhD preliminary evaluation, to take the MA/MS or PhD comprehensive examination, or to be graduated.

**SPECIAL STATUS**

Students may be granted temporary admission as “special status” under the following circumstances:

1. Students who are seeking advanced degrees but who are unable to meet the deadline for filing all required credentials for admission may be granted temporary admission provided they present acceptable evidence concerning their qualifications for graduate study. Regular admission must be accomplished within the first term of registration.

2. Students who are not seeking an advanced degree but who have specific qualifications for one or more courses, including courses required for learning or certification, may register for such courses subject to review by the department and the dean of the school. Schools providing such an opportunity may specify the number of credits or courses for which a student may enroll while in this status and should also clearly specify the limitations on transfer of such credits toward a graduate degree if the student is subsequently admitted to a graduate degree program.

See Schools, Departments, and Programs section for specific requirements connected to special status students.

**GUARANTEES AND EARLY ADMISSION TO GRADUATE AND FIRST-PROFESSIONAL PROGRAMS**

Undergraduate students receiving an academic merit scholarship who indicate certain professional programs (including communication science, dental medicine, education, law, medicine, physical therapy, and public and international affairs) as their intended field of study on the Freshman Application to the University of Pittsburgh will be automatically reviewed for guaranteed admission into that professional program. Early application is recommended, as spaces are limited.

Exceptionally able undergraduate University of Pittsburgh students may be admitted to full graduate status if their graduate and undergraduate schools have approved early admission as a permitted option and have established standards and procedures, and if the student needs no more than 24 credits to complete the baccalaureate degree. Credits earned while enrolled in the graduate program may also be counted toward fulfilling undergraduate degree requirements. See Schools, Departments, and Programs section for further information on the possibility of early admission to specific programs.

**TUITION DEPOSIT**

Once a student is admitted to a program, some of the graduate and professional schools at the University of Pittsburgh require a tuition deposit of $100 to $500 to secure the student’s place in the incoming class. Students should refer to Financial Issues: Tuition, Fees, Loans, & Scholarships, page 6, or to the admissions information for their specific school to determine the amount required for the tuition deposit.

**DEFERRED ADMISSION**

If a department or school so approves, a student may defer admission for one year without having to complete any additional applications. If approved, the student is sent a new admission letter. Approval of a student’s request to defer admission does not necessarily mean that any financial aid awarded is also deferred. See Aid Deferrals, page 8, for more information on deferring financial aid.

**READMISSION**

A student who has not registered for at least one credit or full-time dissertation study during a 12-month period will be transferred automatically to inactive status and must file an application for readmission to graduate study (and pay the application fee) before being permitted to register again. Inactive students cannot apply to graduate, nor take preliminary or comprehensive exams. Readmission is not automatic nor does it necessarily reinstate the student to the academic status enjoyed prior to becoming inactive. When readmitted, the student must be prepared to demonstrate proper preparation to meet all current admission and degree requirements. Readmission is automatic, however, for students who receive prior approval for a formal leave of absence.

**CHANGING THE FIELD OF GRADUATE STUDY**

A student already admitted to graduate study and desiring to change a major department of graduate study must file an application for such a change in the office of the dean or the department of the school the student wishes to enter. The application for admission to the new department will be evaluated in the same manner as an application from a new student.
FINANCIAL ISSUES: TUITION, FEES, LOANS, & SCHOLARSHIPS

TUITION

TUITION DEPOSIT

Some graduate and professional schools at the University of Pittsburgh require tuition deposits to secure the admitted student’s place in the incoming class. These deposits are non-refundable and are applied toward the student’s first term tuition costs. The schools that require deposits and the specific amounts are as follows:

<table>
<thead>
<tr>
<th>School</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katz Graduate School of Business</td>
<td></td>
</tr>
<tr>
<td>MBA Program</td>
<td>$200</td>
</tr>
<tr>
<td>PhD Program</td>
<td>$100</td>
</tr>
<tr>
<td>School of Dental Medicine</td>
<td>$500</td>
</tr>
<tr>
<td>School of Health and Rehabilitation Sciences*</td>
<td></td>
</tr>
<tr>
<td>MPT Program</td>
<td>$250</td>
</tr>
<tr>
<td>School of Information Sciences</td>
<td>$100</td>
</tr>
<tr>
<td>School of Law</td>
<td></td>
</tr>
<tr>
<td>Due April 15</td>
<td>$200</td>
</tr>
<tr>
<td>Due June 15</td>
<td>$300</td>
</tr>
<tr>
<td>School of Medicine</td>
<td>$100</td>
</tr>
<tr>
<td>School of Nursing (Anesthesia)</td>
<td>$250</td>
</tr>
<tr>
<td>Graduate School of Public and International Affairs</td>
<td>$200</td>
</tr>
<tr>
<td>Graduate School of Public Health</td>
<td>$100</td>
</tr>
</tbody>
</table>

* NOTE: The other programs in the School of Health and Rehabilitation Sciences (MA, MS, and PhD) do not require a tuition deposit.

FULL TUITION

Graduate students enrolled for nine to 15 credits during the Fall and Spring Terms are considered full-time and pay a flat tuition rate. Students enrolled for one to eight credits are considered part-time and pay for individual credits. Students enrolled in the Summer Term also pay for individual credits, regardless of how many credits are taken (The Katz Graduate School of Business is an exception: full-time MBA students pay a flat rate in the Summer Term). See Deferred Payments and Payment Adjustments sections below for information regarding tuition payment plans.

Tuition rates are school specific. Students pursuing two degrees or a degree and a certificate simultaneously must list one as the primary academic program and may list the other as a secondary academic program on the registration form; students are billed at the tuition rate of the primary academic program. Please refer to the tuition rate for the school in which you are enrolled. The University’s tuition chart is online at http://www.ba.pitt.edu/irweb/tuition/tuithmpg.htm.

RESIDENCY/REDUCED TUITION

Students who reside in the Commonwealth of Pennsylvania may be eligible for reduced tuition through state appropriations (see Eligibility for Reduced Tuition below). Eligibility is determined by criteria outlined in the University of Pittsburgh Guidelines for Determining Eligibility for Reduced Tuition Rates, available online at http://www.be.pitt.edu/sfs/paycenter.htm#TF.

ELIGIBILITY FOR REDUCED TUITION

Assessment of full tuition or reduced tuition is based on whether the student is a permanent resident of the Commonwealth of Pennsylvania. Full tuition is charged to non-residents. A student who has lived in Pennsylvania for a continuous period of 12 months before enrollment in any institution of higher education in the state may be eligible for reduced tuition. The student must be a citizen of the United States or have an immigrant or permanent visa. For a student less than 21 years of age, both the student and parent(s) or legal guardian(s) must meet the residency requirements for eligibility.

FINANCIAL OBLIGATION OF STUDENTS

The University of Pittsburgh has the right to withhold services if a student defaults on any financial obligation until repayment arrangements have been made that are satisfactory to the office or department to which the debt is owed.

FEES

MANDATORY FEES

The following are mandatory fees assessed to students each term (current rates are available online at http://www.ba.pitt.edu/irweb/tuition/tuithmpg.htm):

- Student Activity Fee
- Student Health Fee
- Computer and Network Service Fee
- Security, Safety, and Transportation Fee

SPECIAL SERVICE FEES

These fees may be charged for University transactions that are processed beyond deadlines, due dates, and specified time limits.

COURSE FEES

Certain courses have fees associated with enrollment in the course. These courses are identified in the Schedule of Classes and Course Descriptions. The Schedule of Classes is online at http://www.pitt.edu/~srfsweb/crinPgCrsInfo.htm.

PROGRAM FEES

Certain graduate and first-professional programs have fees associated with enrollment in the program. These are typically fees for equipment or required insurance. See the Schools, Departments, and Programs section of this bulletin for more information.
FINANCIAL AID

Financial assistance for graduate students can be provided in the form of teaching and research appointments, fellowships, traineeships, tuition scholarships, and loans. The type of aid available depends on the school or program to which the student is admitted; students are encouraged to contact their school directly for more information about the types of financial assistance available. Admission to graduate study does not necessarily carry any implications concerning the award of financial aid.

TEACHING AND RESEARCH APPOINTMENTS

Students may receive financial support as teachers or researchers in their respective programs. In these positions, students are either teaching assistants (TAs), teaching fellows (TFs), graduate student assistants (GSAs), or graduate student researchers (GSRs). These appointments are generally for two terms at a time; guidelines covering these appointments and their current salary ranges are available through links from the University’s Graduate Studies Web page at http://www.pitt.edu/~graduate. In recognition of academic merit, the University offers TA/TF/GSA/GSR scholarships including tuition, fees (excluding the student activity fee), and individual medical insurance coverage. TAs/TFs/GSAs and GSRs can also purchase family medical coverage (for spouse and/or dependent children) by paying the difference between the premium costs for the individual option and the family option.

The University’s policy concerning Teaching Assistants and Teaching Fellows, dealing with appointments, reappointments, terminations, benefits, and responsibilities, is contained in the University TA/TF/GSA Policy Statement, sent to all new Teaching Assistants. The University’s policy concerning Graduate Student Researchers is contained in the University GSR Policy Statement, sent to all new GSRs. The Teaching Assistant/Teaching Fellow/Graduate Student Assistant Policy Statement can also be found on page 28 of this bulletin under Rights and Responsibilities, and the University Graduate Student Researcher Policy Statement can be found on page 27.

Students receiving these academic appointments must follow the relevant University policies as they apply to faculty and staff of the University of Pittsburgh; see Rights and Responsibilities section of this bulletin for details. For more information on what teaching and research positions may be available in a given program, see the relevant information in Schools, Departments, and Programs.

TEACHING ASSISTANTS (TA)

Teaching Assistants (TAs) are graduate students who have not qualified for an appointment as a teaching fellow. The duties of a TA might include teaching recitation sections, monitoring quizzes, assisting in laboratory instruction, or participating in related activities involving undergraduate programs. Full appointments usually require approximately 20 assigned hours per week.

TEACHING FELLOWS (TF)

Teaching Fellows (TFs) are graduate students more educationally advanced or experienced than a TA, typically holding the equivalent of a master’s degree. The salaries for TEs are slightly higher than those for TAs. Full appointments usually require approximately 20 assigned hours per week.

GRADUATE STUDENT ASSISTANT (GSA)

Graduate Student Assistants (GSAs) are graduate students who perform duties to assist in the educational or research mission of the University, but do not teach classes, recitations, or labs. GSAs might assist a faculty member in library research, editorial duties, or similar academic tasks. Full appointments usually require approximately 20 assigned hours per week.

GRADUATE STUDENT RESEARCHER (GSR)

Research grants funded by government and private agencies provide a variety of full- and part-time research positions for graduate students. Most, but not all, of the GSR positions, which are also referred to as Graduate Research Assistants, are in projects that are directly related to the thesis or dissertation research of the student; all provide the student with valuable research training and experience.

FELLOWSHIPS AND TRAINEEHSHIPS

There are a variety of fellowships and traineeships available from the University of Pittsburgh and many other organizations that provide funding to students needing financial assistance and/or showing evidence of academic excellence. These awards may include a stipend, a tuition scholarship, health care coverage, or all three. Among the fellowships available from the University to students across a broad range of disciplines are the following:

PROVOST’S DEVELOPMENT FUND

This program is intended to provide financial support and development opportunities for women and disadvantaged students pursuing the doctorate or professional degree that would qualify them for an academic or administrative appointment. Financial assistance will be made available on the basis of need and merit. Any U.S. citizen or permanent resident who is enrolled in or admitted to a graduate program at the University is eligible. Ideally, the candidate would be in the advanced stages of the PhD program so that support for one year would complete the program. Applications are available from the Office of the Provost, 801 Cathedral of Learning, or online at http://www.pitt.edu/~cedeno/pdfapp99.html.

OWENS FELLOWSHIPS

A bequest of Samuel T. Owens Jr. makes fellowships available at the University of Pittsburgh for needy students who show promise of high academic achievement. These fellowships carry an annual stipend of $2,000. The fellowships may be used in payment of tuition, books, and living expenses during the academic year for which the award is granted. Owens Fellowships are not available for a single term. Application forms are available in the University Office of Admissions and Financial Aid, Masonic Temple, Pittsburgh, PA 15260, (412) 624-7488. The deadline for application is usually in April.

For more information on specific fellowships and traineeships available to students in a particular program, see the Schools, Departments, and Programs section of this bulletin.

SCHOLARSHIPS

Scholarships from the University of Pittsburgh are a form of merit- and need-based financial aid. Outside scholarships are also applied toward tuition and other mandatory educational expenses. Scholarships do not have to be repaid.
STAFFORD LOANS

Stafford Loans are long-term, low interest rate loan programs available to degree-seeking students enrolled on at least a half-time basis. The amount of the loan is dependent upon financial need, but for a graduate student it could be as high as $18,500 per academic year. While there is no deadline for applying, Stafford Loans can take as many as 60-90 days to be approved; therefore, students who intend to start graduate school in the Fall Term should start the loan process no later than May 15.

Financial aid application procedures are outlined in the University of Pittsburgh's Financial Aid Booklet and online at http://www.pitt.edu/~oaf. Information on Stafford Loans is available online at http://www.finaid.org/loans/studentloan.phtml; the University’s Graduate Admissions and Financial Aid site (http://www.pitt.edu/~graduate/admissions.html) includes links to loan information for graduate students.

LIFETIME LEARNING TAX CREDITS

Taxpayers are eligible to claim a non-refundable Lifetime Learning Credit against their federal income taxes for the qualified tuition and related expenses of students who are enrolled in eligible educational institutions. Through 2002, the amount that may be claimed as a credit is equal to 20 percent of the taxpayer’s first $5,000 of out-of-pocket qualified tuition and related expenses for all the students in the family. After 2002, the credit amount is equal to 20 percent of the taxpayer’s first $10,000 of out-of-pocket qualified tuition and related expenses. Qualified tuition and related expenses for graduate-level education are eligible for the Lifetime Learning Credit.

For more information on Lifetime Learning Credits, see http://www.ed.gov/inihts/hope/tax_qa/sec2.html.

DEFERRED PAYMENTS

AID DEFERRALS

Once students have applied for and been notified of financial aid eligibility, they may defer payments by obtaining a Financial Aid Deferral form in the Office of Admissions and Financial Aid and then submitting the form to the Student Payment Center. Whether a deferral of aid is allowed is dependent upon the type of aid awarded.

DEFERRED TUITION PAYMENT PLAN

Students in good financial standing with the University and registered during the Fall, Spring, or Summer Terms for three or more credits are eligible to participate in a deferred tuition payment plan to pay current term charges in three installments. First-time participants in the plan must make these arrangements in person at the Student Payment Center. Thereafter, participants may elect a mail option.

There is a $20 fee each time a student sets up a payment plan, and an interest charge of 1% monthly on the unpaid principal is added to the remaining two installment payments. For more information on the deferred tuition payment plan, please contact the Student Payment Center via E-mail at payment@srf.s.pitt.edu or online http://www.bc.pitt.edu/sfs/paycenter.htm.

PAYMENT

University statements may be paid by cash, check, or credit card; however, cash cannot be mailed or dropped into the Student Payment Center's depository. The University accepts Discover, MasterCard, and Visa credit card payments in person, by mail, or telephone. The Student Payment Center is located in room G-7 of Thackeray Hall. The mailing address is P.O. Box 371998, Pittsburgh, PA 15250-7998, and the phone number is (412) 624-7550.

Due dates are clearly designated on billing statements and are always the 17th of the month. Failure to pay the amount due (or to arrange a deferred tuition payment plan by the due date) will result in a late payment fee for students without a valid deferral.

If students who have a tuition scholarship (for example, via a TA/TF/GSR/GSA appointment) receive a tuition statement indicating that their tuition has not been paid, they should immediately contact the school or department administering the scholarship for assistance in correcting the error.

CHECK AND CREDIT CARD ADJUSTMENTS

As appropriate, payment made by check may be refunded to students. Adjustments to credit cards are made to the payer's credit card account and will be reflected on the Discover, MasterCard, or Visa monthly statement.
CAMPUS FACILITIES & STUDENT SERVICES

ACADEMIC RESOURCES

The University of Pittsburgh has a wide variety of academic resources that provide the infrastructure to aid students with their research and computing needs.

UNIVERSITY LIBRARY SYSTEM

271 Hillman Library
(412) 648-7710
E-mail: feedback@library.pitt.edu
Web site: http://www.library.pitt.edu

The University Library System (ULS) of the University of Pittsburgh is represented by 14 libraries located on the Pittsburgh campus, the Allegheny Observatory Library, the Archives Service Center, and a storage facility at UPARC in Harmarville. The ULS is a member of the Association of Research Libraries (ARL), the Oakland Library Consortium (OLC), and Pennsylvania Academic Library Connection, Inc. (PALCI). Through membership in several Pennsylvania consortia of libraries, cooperative borrowing arrangements have been developed with other Pennsylvania institutions.

Other University of Pittsburgh libraries include the Barco Law Library and the Health Sciences Library System (see below for detail), both located in Pittsburgh, as well as the four regional campus libraries—Bradford, Greensburg, Johnstown, and Titusville.

The University of Pittsburgh libraries and collections provide an abundant amount of information and services to the faculty, students, staff, administrators, and researchers of the University. In fiscal year 1999, the University’s collections totaled nearly four million volumes, nearly four million pieces of microforms, and 26,000 subscriptions (these subscriptions include more than 24,000 print subscriptions and nearly 2,000 electronic journals). Also, through the Graduate and Professional Student Association (GPSA), interlibrary loan grants of up to $25 a year are available to all graduate and professional students at the University to help offset the increasing costs of interlibrary loans between University of Pittsburgh libraries and those on other campuses. (See http://www.pitt.edu/~gpsa2/)

Under the administration of the University Librarian, the University Library System (ULS) includes the following libraries and collections:

• Hillman (main), which houses:
  - African-American
  - Buhl (social work)
  - East Asian
  - Government Documents
  - Latin American Studies
  - Special Collections
  - Allegheny Observatory
  - Business Information Center
  - Center for American Music
  - Chemistry
  - Computer Science

• Darlington Memorial
  - American History
• Engineering
• Fine Arts
• Information Sciences
• Langley
  - Biological Sciences
  - Neuroscience
  - Psychology
• Mathematics
• Music
• Physics/Astronomy
• Public and International Affairs/Economics

The Hillman Library is the largest library facility with seating for 1,530 users. It offers an open stack arrangement and an extensive range of library services. In addition to the main collection, which is comprised primarily of humanities and social sciences subject areas, the Hillman Library is comprised of seven other libraries and collections, maps, national, and international newspapers, and microform facilities.

PITTCAT is the University of Pittsburgh’s online library catalog, offering author, title, subject, and keyword access to materials in all University libraries. PITTCAT currently contains bibliographic holdings and circulation information for more than three million titles, representing most of the book and periodical collections in all University libraries. In addition, the University libraries provide access to many remote resources for University of Pittsburgh faculty, students, and staff, including Digital Dissertations, EBSCOhost, InfoTrac, CIS Compass, MUSE, JSTOR, Science Direct, Web of Science, netLibrary, and numerous other electronic journals. PITTCAT and the other databases are available through the ULS Web site at http://www.library.pitt.edu.

BARCO LAW LIBRARY

The Barco Law Library, occupying three floors of the five-story Law School Building, is available to anyone needing to use its resources for legal research purposes. Likewise, the Government Document collection is available for use by the public at large. Call (412) 648-1323 for more information or see the library’s Web site at http://www.law.pitt.edu/library.

HEALTH SCIENCES LIBRARY SYSTEM

The Health Sciences Library System (HSLS) at the University of Pittsburgh is comprised of three distinct libraries that support the educational, research, patient care, and service activities of the schools of the health sciences (Medicine, Dental Medicine, Pharmacy, Health and Rehabilitation Sciences, Nursing, Public Health) and the UPMC Health System. This library system includes the Falk Library, the Nursing Collection in the Learning Resources Center of the School of Nursing, and the Western Psychiatric Institute and Clinic (WPIC) Library.

Falk Library of the Health Sciences serves as the flagship of the HSLS. It is located on the second floor of Seafie Hall. The library houses
more than 300,000 print volumes and receives approximately 2,000 journal subscriptions. The Falk Library collection also includes a special History of Medicine collection. In addition to the library’s print collection, the Computer and Media Center (CMC) includes videotapes, audiotapes, more than 100 public computers, and over 300 microcomputer software packages.

WPIC Library is one of the world’s most comprehensive resources in psychiatry and the behavioral sciences, with approximately 70,000 books, 420 journals, and 600 audio tapes. The WPIC Library collection also includes 550 videotapes held at the Benedum Audiovisual Center. The Nursing Library is located on the second floor of Victoria Hall and includes about 10,000 books and 150 journal titles.

HSL Online, a digital clinical library, offers access through the World Wide Web to current biomedical databases, full-text journals, major full-text clinical and subspecialty textbooks, clinical practice guidelines, and current drug and toxicology information. HSL Online includes the following databases and information services: MEDLINE, AIDSLine, CancerLit, Bioethicsline, HealthStar, CINAHL, PsycINFO, Evidence-Based Medical Reviews, Micromedex, MDConsult, STAT!Ref, Harrison’s Principles of Internal Medicine, Lippincott’s Primary Care Online, and Scientific American Medicine Online.

For information about the Health Sciences Library System and its resources, or to access HSL Online, see http://www.hsls.pitt.edu/, or E-mail medlibqg+pitt.edu.

COMPUTING SERVICES AND SYSTEMS DEVELOPMENT

CONTACT INFORMATION
728 Cathedral of Learning
Phone: (412) 624-4357
Web site: http://technology.pitt.edu/

Computing Services and Systems Development (CSSD) is the comprehensive service center for the University of Pittsburgh’s computing support and systems development environment. A number of those services provided by CSSD are detailed below. For a full discussion of CSSD’s services, consult the Web page listed above.

CAMPUS COMPUTING LABS
CSSD operates six primary computer labs on the Pittsburgh campus, providing students with access to Intel, Macintosh, and UNIX workstations and an array of software applications needed to fulfill the demands of students’ academic endeavors. The six computing labs are located at 1077 Benedum Hall, G27/G62 Cathedral of Learning, 1E01 Posvar Hall, First Floor Hillman Library, 230 David Lawrence Hall, and C114 Sutherland Hall. The 230 David Lawrence Hall lab is open 24 hours a day, seven days a week. For hours of operation for all campus computing labs, please call (412) 624-5061.

NETWORK AUTHORIZATION ACCOUNTS
All enrolled students are eligible for a network authorization account (NAA). The NAA will permit a student to establish a user ID and a password to provide access to the University’s network resources, a Mulberry E-mail account, the Internet/WWW, the University Library System’s PITTcat system, and a printing allowance at the campus computing labs. All students who wish to use the University computing resources, including the ability to access their schedules and grades online or to shop at the e-Store, must have a network authorization account. Accounts are issued at any of the campus computing labs. Password re-set and other account modifications must be made between 8:30 a.m. and 5:00 p.m. at the Accounts Office at the 230 David Lawrence Hall lab. Please contact the CSSD Help Desk at (412) 624-HELP (624-4357) for assistance with accounts.

NETWORK PORT CONNECTIVITY
Students can access the University’s network from home with their network authorization account and a modem through the remote access modem pool. Please contact the CSSD Help Desk at (412) 624-HELP (624-4357) for assistance.

COMPUTER CONSULTING SERVICES
CSSD has a staff of skilled information technology (IT) professionals who are available to help troubleshoot problems 24 hours a day, seven days a week. CSSD consultants are available to help with problems such as network connectivity, software difficulties, or even hardware malfunctions. Please call the CSSD Help Desk at (412) 624-HELP (624-4357) for assistance.

COMPUTER SALES AND DIGITAL CERTIFICATION
University of Pittsburgh students, faculty, and staff have access to the e-Store, an online retail provider of hardware, software, and peripherals, for their computing needs. Shopping at the e-Store requires a network authorization account and a digital certificate ID. Please see the e-Store’s Web site at http://e-Store.pitt.edu/ for University-recommended computer systems and for instructions on obtaining a digital certificate. Call the CSSD Help Desk at (412) 624-HELP (624-4357) for more information.

COMPUTING WORKSHOPS AND TRAINING
CSSD offers Quickstart classes, a series of short courses designed to orient new and experienced users to the University’s network, the Mulberry E-mail environment, and the selection of software applications available in the campus computing labs. CSSD also offers a selection of Java and Microsoft certification courses for students. For additional information and a schedule of classes, please see the CSSD Workshop site at http://www.pitt.edu/~workshop or call the CSSD Help Desk at (412) 624-HELP (624-4357).

NETWORK SERVICES
The Network Services area of CSSD is responsible for the development and maintenance of the University’s information technology network supporting voice, video, and data. The backbone of the University-distributed computing services is PittNet, a network based on Ethernet technology that serves the diverse communications needs of the entire University community. For additional information, please see the Network Services site at http://technology.pitt.edu/network/index.html or call (412) 624-4357.

RESEARCH AND ACADEMIC SUPPORT
A number of centers at the University support teaching, research, and academic skills for graduate students in a variety of fields. Those centers are detailed below in alphabetical order.

CENTER FOR BIOTECHNOLOGY AND BIOENGINEERING
The Center for Biotechnology and Bioengineering is a leading center for research in biology and bioengineering. The center’s headquarters, a new 80,000 square foot building located in a high-technology business park near the University, houses 100 researchers actively pursuing projects in the center’s main programs in applied enzomology, cell culture, biomaterials, gene therapy, and artificial organs. The center’s goals include training new generations of scientists; accelerating the process of innovation in biotechnology and...
Bioengineering; and providing assistance to the industrial community through industrially supported applied projects.

For more information on the center, call (412) 383-9700 or see the center’s Web site at http://www.pitt.edu/~biotech/.

CENTER FOR INSTRUCTIONAL DEVELOPMENT & DISTANCE EDUCATION (CIDDE)
The Center for Instructional Development & Distance Education (CIDDE) was established to strengthen the instructional development and support services available to faculty and teaching assistants. The Center enables faculty to identify and use technology and other instructional resources available to them.

CIDDE provides faculty and teaching assistants with a primary contact point for many of the instructional services they need, and it also assists in developing and supporting distance education programs and courses. CIDDE also hosts an orientation for new TAs each fall and provides ongoing training seminars for teaching assistants wanting to develop their teaching skills. For more information, visit CIDDE at 4227 Fifth Avenue (Masonic Temple), call (412) 624-3335, or visit CIDDE’s Web site at http://www.pitt.edu/~ciddeweb/.

CENTER FOR PHILOSOPHY OF SCIENCE
The Center for Philosophy of Science promotes scholarship and research, encourages scholarly exchanges, and fosters publications in the philosophy of science as well as in the philosophically informed history of science and related fields. The center is dedicated to bridging the gulf between the sciences and the humanities by helping to develop and disseminate a philosophical understanding and appreciation of the sciences. The center pursues its mission not only locally and regionally, but also nationally and internationally. The center sponsors a visiting fellows program, an annual lecture series, a number of colloquia and workshops, and a variety of other programs. Like other centers at the University of Pittsburgh, the Center for Philosophy of Science is a unit for research rather than teaching. For more information on the center, visit the center in room 817 of the Cathedral of Learning, or on the Web at http://www.pitt.edu/~pittcntr/.

ENGLISH LANGUAGE INSTITUTE
The English Language Institute (ELI) provides credit-bearing English as a Second Language (ESL) courses for students admitted to the University’s degree programs, as well as intensive instruction in ESL for people who need to meet proficiency requirements to enter a university. Credit courses are offered in speaking, writing (including the research paper), and reading/vocabulary. Through the School of Engineering, a technical writing for ESL graduate course is provided. During the summer, the ELI offers five-week ESL programs for students entering MBA and MPIA graduate programs. Non-credit courses cover reading, writing, listening, speaking, and grammar. For more information, call (412) 624-5901, E-mail elipitt+@pitt.edu, stop by room 2816 Cathedral of Learning, or visit the Institute’s Web site at http://www.eli.pitt.edu.

INSTITUTIONAL REVIEW BOARD
The Institutional Review Board (IRB) is charged with overseeing and approving all research at the University involving humans as subjects. For more information on the IRB’s policies and practices, call (412) 692-4370 or see the IRB’s Web site at http://www.ofres-hs.upmc.edu/irb/irb.htm.

LEARNING RESEARCH AND DEVELOPMENT CENTER (LRDC)
The Learning Research and Development Center (LRDC) is a multidisciplinary research center whose mission is to understand and improve learning by children and adults in the organizational settings in which they live and work: schools, museums, and other informal learning environments, and workplaces.

Fields of research include: processes of learning; learning in schools and museums; education improvement; education policy and practice; learning and technology; and learning and work. For more information, visit the center’s Web site at http://www.lrdc.pitt.edu.

LEARNING SKILLS CENTER
The Learning Skills Center (LSC) offers free learning support services for University of Pittsburgh students, staff, and faculty. The math component provides tutoring for the University’s introductory math courses and individual consultation for improving study strategies and confidence in math. Individual and group study skills services are available through the study skills component. In the study skills workshop, students learn, discuss, and practice strategies for improving textbook reading, lecture note taking, memory, time management, and test performance. Individual appointments can also be made for general study skills, for suggestions on how to study specific subjects, or for help in reducing test anxiety.

Supplemental Instruction groups are conducted by the LSC for traditionally difficult introductory courses to give students the opportunity to learn and practice effective study strategies while studying the content of the course. The reading component provides diagnostic services, individualized programs in comprehension and vocabulary, and speed reading workshops.

For more information, contact the center at (412) 648-7920, room 311 William Pitt Union (open Monday through Friday from 8:30 a.m. to 5:00 p.m. and some weekday evenings), or see http://www.lsc.pitt.edu.

OFFICE OF MEASUREMENT AND EVALUATION OF TEACHING (OMET)
The Office of Measurement and Evaluation of Teaching (OMET) provides services to the University community related to student evaluation of teaching, the scoring of objective classroom tests, the administration of paper-and-pencil and computer-based admission and certification examinations, and consultation regarding research design and analysis. Instructors teaching a class, lab, or recitation can receive student feedback about their teaching by completing a request form that is available in both their respective departments and in G-39 CL (call 624-6147 for information). Information about test scoring and administration is available in G-33 CL (call 624-6440). OMET’s Web site is located at http://www.pitt.edu/NewPittInfo/omet.html#stu.

OFFICE OF RESEARCH
The Office of Research is charged with administrative responsibility for all University research and related activities involving extramural sponsorship. The Office of Research serves as both a center of advocacy for research and related activities and a facilitator of the research environment. The functional areas supported by Office of Research staff include information services on potential sources of funding, project and proposal development assistance, and contracts administration for both pre-award and selected post-award tasks. All funding proposals submitted by University personnel must be transmitted to and reviewed by Office of Research staff to assure adherence to internal and external policies and procedures. For more information on the office’s services, call (412) 624-7400, visit 350 Thackeray Hall, or see http://www.pitt.edu/~offres.
UNIVERSITY CENTER FOR INTERNATIONAL STUDIES (UCIS)
The University Center for International Studies (UCIS) is the central coordinating and support mechanism for the international activities of the University of Pittsburgh. As a University-wide center, UCIS supports multidisciplinary programs of research and instruction in international and area studies, linking departments and schools of the University. It connects the University with private and public sector institutions, other universities, and institutions in other countries to strengthen the University’s international dimension of teaching, research, and public service. UCIS aids students in their acquisition of international knowledge through certificate programs, study abroad programs, curriculum developments, and seminars; assists faculty in their international research, teaching, and service; and develops and manages international programs and projects. The Center offers graduate certificate programs through its four area studies centers (Asian Studies, Latin American Studies, Russian and East European Studies, and West European Studies), all of which are designated by the federal government as National Resource Centers. Area studies certificates give evidence of language proficiency and area knowledge, which students find useful for international careers or for advanced degrees with a focus in a particular world area.

For more information, contact UCIS at 4G Posvar Hall, (412) 648-7390, or http://www.ucis.pitt.edu/index.html.

UNIVERSITY CENTER FOR SOCIAL AND URBAN RESEARCH (UCSUR)
Established in 1972 to carry out basic and applied social science research, the University Center for Social and Urban Research (UCSUR) is a focal point for collaborative interdisciplinary and multidisciplinary studies. Faculty from the University’s Faculty of Arts and Sciences and the professional schools participate in UCSUR’s research programs. More than 60 federal, state, and local agencies, and foundations support the basic and applied research of the Center.

UCSUR is the major survey research facility at the University of Pittsburgh. The center provides opportunities for faculty collaboration in the development of research projects. It also provides state-of-the-art survey research facilities and other services to assist in formulating and executing research projects; information and technical services for local governments, community groups, and educational institutions; and primary and secondary data acquisition and analysis.

UCSUR is a Pennsylvania State Data Center research affiliate responsible for helping local academic institutions, businesses, governments, and other organizations in Southwestern Pennsylvania access and analyze U.S. Bureau of the Census data.

For more information on UCSUR, call (412) 624-5442 or see http://www.ucis.pitt.edu/~ucsur/.

WRITING CENTER
The Writing Center, located in the University’s English department, offers tutoring assistance for students who need help with their writing in any class. Tutors will help solve writing problems with students but will not edit or write text. Students may drop in any time, but it is best to call for an appointment. The Writing Center is open Monday through Friday and also has some evening hours. For more information, call (412) 624-6556, stop by room 501 Cathedral of Learning, or see http://www.pitt.edu/~englweb/writecent.html.

SERVICES FOR NEW TEACHING ASSISTANTS
The University has a variety of support mechanisms for new teaching assistants to help them develop and improve their teaching skills. Each fall, the Center for Instructional Development & Distance Education (CIDDE) hosts an orientation for new TAs. The program includes required workshops led by experienced TAs and faculty on promoting academic integrity and creating an inclusive classroom. Elective workshop topics address issues such as teaching in labs, teaching recitations, and dealing with difficult situations. A panel of professors and students describe the University’s undergraduate population to new TAs. For registration information, call (412) 624-6671. CIDDE also publishes a Teaching at Pitt handbook that includes helpful information for new TAs.

Also, CIDDE and the Office of Measurement and Evaluation of Teaching (OMET) provide further training and evaluation for teaching assistants (see above for detail on CIDDE and OMET).

HOUSING

Pittsburgh has a number of pleasant residential neighborhoods with private homes that have been converted to apartments. Many graduate and professional students live in Oakland, where the University is located, or in the surrounding neighborhoods of Shadyside, Squirrel Hill, Highland Park, and Mount Washington. All of these areas are within walking distance or easy commuting distance of the University. Public bus transportation is widely available and is free (inside Allegheny County limits) to University students.

Ruskin Hall is the only residence hall on campus for graduate students. It is designated as living space for graduate students studying medicine, law, or other health-related professionals. Students interested in Ruskin Hall should contact the Property Management Department (see below).

HOUSING RESOURCE CENTER

The Housing Resource Center provides assistance to students, staff, and faculty in identifying, renting, leasing, or purchasing suitable living accommodations. The Housing Resource Center provides the following: information on University-owned apartments; an apartment-roommate matching service; a sublet service; maps of Pittsburgh and surrounding areas; rental tips; campus shuttle schedules; free local telephone service to contact landlords; and listings of apartments inspected and approved by the City of Pittsburgh. Call (412) 624-6998, visit the office at 127 North Bellefield Street, or see http://www.pitt.edu/~property/hr.html.

PROPERTY MANAGEMENT

The Department of Property Management manages several off-campus apartment buildings near the University for students, faculty, and staff. For more information on the buildings and how to make a rental application, call (412) 624-9900, visit the office at 127 North Bellefield Avenue, or see http://www.pitt.edu/~property/pm.html.
STUDENT RESOURCES

The University is committed to providing a high quality of life for its students and towards that end supports a variety of offices and activities designed to aid students in realizing their potential and having a fulfilling campus life.

AFFIRMATIVE ACTION

In addition to its work with developing, implementing, and monitoring the University’s affirmative action program, the Office of Affirmative Action is responsible for receiving, investigating, and mediating complaints from any members of the University community who believe they have been discriminated against or harassed on the basis of their race, color, religion, national origin, ancestry, sex, age, marital status, familial status, sexual orientation, disability, or status as a disabled veteran or a veteran of the Vietnam era. Individuals may request information and advice anonymously if they wish. The privacy of all parties will be respected. The office is located in room 901 of the Cathedral of Learning and the phone is (412) 648-7860. See http://www.hr.pitt.edu/general/ Affirm.htm for further information on the office’s services and the University’s affirmative action policy.

ATHLETICS

The University offers a variety of opportunities for students to participate in athletics on the intramural and club levels as well as on-campus facilities for group sports and individual exercise.

VARSITY SPORTS

The University offers nine varsity sports each for men (baseball, basketball, cross country, diving, football, soccer, swimming, indoor and outdoor track, and wrestling) and women (basketball, cross country, diving, gymnastics, soccer, swimming, tennis, indoor and outdoor track, and volleyball). For tickets, scheduling, or other information about these sports, call (412) 648-8200 or visit the Pittsburgh Panthers Web site at http://www.pittsburghpanthers.com.

INTRAMURAL AND CLUB SPORTS

New outdoor playing fields are available behind the renovated Cost Sports Center. Call (412) 648-8210 for more information or visit the intramural program’s Web site at http://www.pitt.edu/~soeforum/hpred/ intramuals/Imexperi.html.

Sports clubs offer participation in a wide array of sports such as cycling, crew, hockey, and rugby. Contact the Student Organization Resource Center at 119 William Pitt Union, (412) 624-7116 for a complete list of sports clubs, or visit the club site at http://www.education.pitt.edu/ intramurals/.

SPORTS FACILITIES

There are a variety of sports facilities available for use by individuals and groups. In Trees Hall, there are two swimming pools (call 412-648-8210 for pool information), a weight room, and courts for basketball, racquetball, handball, and squash. The Fitzgerald Field House also has two basketball courts and a 220-yard indoor track (call 412-648-8213 for schedule of available times). The Cost Center has nine indoor tennis courts, and fitness centers are available at Bellefield and Lothrop halls. Bellefield Hall also has a swimming pool. The new Convocation and Events Center, scheduled to open on the Pitt Stadium site in 2001, will house a large student recreation and fitness center, among other amenities.

BOOK CENTERS

The University owns and operates two bookstores on campus: the Book Center and the Health Book Center. The Book Center, located at 4000 Fifth Avenue, carries textbooks for most University courses, as well as a general book selection, school supplies, and sundries such as art supplies, stationery, greeting cards, and calendars. Call (412) 648-1455 or see http://www.pitt.edu/~bookctr/ for more information. The Health Book Center, located at 3527 Forbes Avenue, carries all course books for the Schools of Medicine, Dental Medicine, Health & Rehabilitation Sciences, Nursing, Pharmacy, and Public Health. Call (412) 648-8915 or see http://www.pitt.edu/~bookctr/hbc.htm for more information.

CHILD CARE

The University Child Development Center provides care and early childhood education to children of faculty, staff, and students of the University of Pittsburgh. Children range in age from six weeks through six years and participate in a wide range of programs that include full- and part-time infant, toddler, and preschool options and full-day kindergarten. There is a school-age summer program as well. The center serves the University as a laboratory school and the greater community as a model of early childhood excellence. There is a lengthy waiting list and prospective parents are encouraged to put children on that list as soon as possible. It is acceptable to put an unconceived child on the list in the interest of prudent planning. The Center is located at 635 Clyde St. and is open from 7:00 a.m. to 6:00 p.m., Monday through Friday. For more information, call (412) 383-2100 or see http://www.hr.pitt.edu/ucdc/child.html.

COUNSELING CENTER

The University Counseling Center provides free, confidential services to all students. The staff consists of psychologists, psychiatrists, and career counselors. Services include individual counseling, group counseling and the Career Resource Center. Students may come to the center for assistance with problems of an emotional, social, marital, academic, or career nature. The Center is located in room 334 of the William Pitt Union and is open year-round from Monday through Friday from 9 a.m. to 5 p.m., with additional hours from 6:00 p.m. to 9:00 p.m. on Monday nights during the Fall and Spring Terms. Call (412) 648-7930 for an appointment or see http://www.pitt.edu/~counsel for more information.

DISABILITY RESOURCES AND SERVICES

The Office of Disability Resources and Services (DRS) provides a broad range of support and services to assist students with disabilities. Services include, but are not limited to, the following: tape-recorded textbooks, sign language interpreters, adaptive computer technology, Braille copy, and non-standard exam arrangements. DRS can also assist students with accessibility to campus housing and transportation. Contact the DRS at (412) 648-7890 (voice or TDD) in room 216 of the William Pitt Union, or see http://www.pitt.edu/~osaweb/drs/drs.html for more information.

FOOD SERVICES

The Department of Food Services operates several cafeterias and food courts on campus and administers a meal plan for students, including graduate and professional students. Cafeterias or food courts are located in the following University buildings: Tower A, Tower C, William Pitt Union, Cathedral of Learning, Sutherland Hall, Mervis
Hall, Benedum Hall, and Posvar Hall. Call (412) 648-2164 or see http://www.pitt.edu/~food/ for more information.

The University of Pittsburgh Medical Center also operates a cafeteria on the 11th floor of Scaife Hall.

HEALTH CARE AND STUDENT HEALTH SERVICE

All full-time students pay a Student Health Fee each term to cover a variety of services at the Student Health Service, which is located in Suite 500, Medical Arts Building, 3708 Fifth Avenue. The Student Health Service is a multi-service healthcare facility that offers outpatient clinical services, gynecology, and family planning, as well as comprehensive health education programs. Call (412) 383-1800 or see http://www.pitt.edu/~studhlth for more information.

The University of Pittsburgh Pharmacy, located in the same suite as the Student Health Service, offers over-the-counter and prescription medication, often at lower prices than available elsewhere. Call (412) 383-1850 or see http://www.pitt.edu/~pitrx for more information.

Students should have health insurance to protect themselves in the event of illness or injury. Also, some schools may require students to carry insurance as a condition of their enrollment, particularly when students may be in contact with blood-borne pathogens. A direct pay medical insurance plan, underwritten by MEGA Life and Health Insurance Company, is available to students registered at the University for three or more credits. While not a full-coverage plan, this plan is designed to provide a student's basic health care needs, including services not offered at the Student Health Service such as hospitalization and emergency care. Students may enroll in the MEGA plan only during certain enrollment periods. Applications, enrollment deadlines, and further information on the plan are available at the Student Health Service, Suite 500, Medical Arts Building, 3708 Fifth Avenue, Pittsburgh, PA 15260, (412) 383-1800, or by contacting the Office of Risk Management at (412) 624-0621.

Teaching Assistants, Teaching Fellows, Graduate Student Assistants, and Graduate Student Researchers with eligible academic appointments are currently eligible to enroll in a managed care plan. The University will cover the cost of this insurance for these eligible graduate students. Coverage is available for eligible spouses and dependents by paying the difference between the individual and dependent options through a monthly payroll deduction. Students supported by fellowships and traineeships may be eligible to purchase membership in this insurance plan by paying the full cost of the coverage through a monthly deduction.

ID CENTER

Every student, faculty, and staff member at the University must get an ID card from the ID Center, located in room 107 McCormick Hall. The PittCard is used to access a variety of campus buildings and to take advantage of on-campus services, including libraries, computer labs, student discounts, and the like. The card also affords access to off-campus benefits such as free bus rides on Port Authority Transit (see Parking and Transportation).

To obtain a PittCard, students must have registered for classes, and must present some form of photo identification, such as a driver's license or passport. If a student does not have any photo identification, several forms of signature ID, such as credit or bank cards or a social security card must be presented. Students may also use a birth certificate as a form of non-photo identification.

There is no charge for the initial PittCard. However, there is a $20 replacement fee for lost, stolen, or damaged cards. Call (412) 624-7643 (624-7632 after hours) or see http://www.pitt.edu/~idcenter/index.html for more information.

INTERNATIONAL SERVICES

The Office of International Services provides services on matters relevant to international students and scholars. Among the services provided are the evaluation of foreign academic credentials for applicants to the University of Pittsburgh with education outside the United States; the issuance of visa documents; orientation for new international students; counseling on personal, social, and financial matters; information and advising on regulations of the Immigration and Naturalization Service and other government agencies, as well as the processing of documents for enrolled international students for travel and employment. To contact the Office of International Services, phone (412) 624-7120, fax (412) 624-7105, or E-mail ois@pitt.edu. The office's mailing address is Office of International Services, 708 William Pitt Union, University of Pittsburgh, Pittsburgh, PA 15260-5071.

PARKING AND TRANSPORTATION

The University provides a variety of parking and transportation services, both on and off campus, some of which are detailed below. For more complete information, call the University Department of Parking, Transportation, and Services’ 24-hour hotline at (412) 624-8800 or see http://p-and-t.parktran.pitt.edu/.

PARKING SERVICES

A limited number of parking permits are available for graduate and professional students living in Ruskin Hall and for those students who commute from off-campus. Permits are sold on a first-come, first-served basis. Daily student commuter parking is also available in several lots located throughout the campus. No permit is required for these facilities; charges are based on daily or hourly rates. Commuter students may also purchase parking permits at the Center for Biotechnology and Bioengineering, an off-campus lot connected to main campus by a shuttle. Evening/weekend student parking permits are available to those who do not need to park until after 3:50 p.m. on weekdays. For more information, contact the Parking Office, 204 Brackenridge Hall, (412) 624-4034.

RIDESHARING

Daily commuter students can save money by sharing a ride with other students. A free, computerized matching service is available to find names and phone numbers of others interested in sharing a ride. Call (412) 624-0687 for more information.

PITTSBURGH CAMPUS TRANSPORTATION SYSTEM

University of Pittsburgh students may ride all of the Pitt buses and shuttles for free by showing a valid University ID. In addition, students are permitted two guest riders (space permitting). Buses and shuttles normally have a 25- to 35-minute route. Detailed maps and time schedules are available in the lobbies of many campus buildings, libraries, and residence halls.

VAN CALL

An on-call Van Call is available from 7 p.m. until 3 a.m. Sunday through Wednesday, and from 7 p.m. until 5 a.m. Thursday through Saturday, to transport students from campus to a residence or from a residence to campus. This service is only available for those not on a fixed shuttle route and within the following area around the campus: South—Second
Avenue/Center for Biotechnology and Bioengineering parking; North—Baum Boulevard; West—Robinson/Craft Avenue; and East—Morewood Avenue. Van Call will also pick up students at the downtown Greyhound bus station on Sundays only. Students may call (412) 624-1700 to have the on-call van dispatched to their location.

PORT AUTHORITY
University of Pittsburgh students may ride any Port Authority bus, incline, or trolley within Allegheny County for free by showing their valid University ID card. Port Authority bus schedules are available at the Transportation Office in Forbes Pavilion, the Parking Office at Brackenridge Hall (room 204), and in the lobby of the William Pitt Union.

BICYCLE REGISTRATION PROGRAM
Registration of bicycles is recommended as a deterrent to theft, to help in the identification of lost or stolen bicycles, and to help the Department of Parking, Transportation, and Services better accommodate cyclists at the University. Registration is free. Bicycle rack parking is also free. Bicycle parking maps, regulations, and safety tips are available from the department. Bicycle lockers may be rented for $40 per term, plus a $10 refundable locker key deposit. Call (412) 624-0687 for more information.

PITT ARTS
PITT ARTS is a program designed to provide the University’s students with access to and information about the many cultural institutions in Pittsburgh. The program’s Web site gives information about a wide range of events in music, film, theater, visual arts, lectures, museums, and other cultural programming both on campus and in the city at large; it also provides information about volunteering for different cultural organizations in the city. PITT ARTS has programs designed for both resident and commuting students, including providing free access during the Fall and Spring Terms for all University students with a valid ID to several museums in Oakland: Phipps Conservatory and the Carnegie Museums of Art and Natural History.

PITT ARTS and the Department of Parking, Transportation, and Services also sponsor the Cultural Bus for the convenience of Pitt students every Sunday through the Fall and Spring terms. The Cultural Bus (number 17U) departs from the William Pitt Union, on Bigelow Boulevard, beginning at 12:00 noon. The 17U Cultural Bus takes students to some of Pittsburgh’s key cultural destinations, including the Andy Warhol Museum, Heinz Hall, the Senator John Heinz Regional History Center, the Mattress Factory, and the Carnegie Science Center. Schedules are available at the William Pitt Union Parking Office (204 Brackenridge Hall), and Transportation Office, 3525 Forbes Avenue, and online at the Parking and Transportation Web site: http://p-and-t.parktran.pitt.edu/.

For more information, visit PITT ARTS at http://www.pitt.edu/~pittarts/.

PLACEMENT SERVICE
Graduate and professional students should consult with their faculty mentors as well as departmental, program, or school placement services as their primary source for guidelines on career development specific to their discipline. As a secondary resource, the University Placement and Career Services, though mainly designed to assist undergraduates, has a variety of services that may be of use to graduate and professional students.

Placement and Career Services is designed to work with students at each step of the Pitt Pathway, a developmental model for career planning and implementation. Specific services that assist students in implementing their plan and beginning their job search include an on-campus recruiting program, a resume referral service, current job postings posted on the Web site and on job boards, and use of an alumni volunteer database entitled AlumNet. Placement and Career Services helps students establish contact with employers in the fields of business, government, health care, education, industry, and private research. A credential service maintains letters of recommendation files that are sent at the request of the student to prospective employers and graduate schools. PCS also maintains a part-time/summer job database for students interested in temporary or part-time work on and off campus. For more complete information on services provided by Placement and Career Services call (412) 648-7130, stop by room 224 William Pitt Union, or see http://www.placement.pitt.edu.

PUBLIC SAFETY
The Department of Public Safety provides police and security services to the University community. For emergency calls dial 811 from on-campus phones or (412) 624-2121 from off-campus phones. The University of Pittsburgh Police Department's main headquarters is located in G1N30 Posvar Hall. For general information calls (non-emergency), dial (412) 624-4040. For more information on the Department of Public Safety, see http://www.pitt.edu/~police/.

SEXUAL ASSAULT SERVICES
The Office of Sexual Assault Services provides individual and group counseling designed to alleviate the trauma associated with sexual assault and sexual harassment. University of Pittsburgh students who have been sexually assaulted or who have experienced some form of sex discrimination are eligible for services. Emergency, medical, legal, and police support are provided. Students are assisted in negotiating course schedule or room changes and in obtaining medical, legal, and counseling resources available to them within the University and local communities.

The peer education program is an integral component of Sexual Assault Services. P.E.E.R.S. (Peer Educators for an Environment Free of Rape and Sexual Exploitation) is a volunteer student outreach program whose mission is to create an awareness of the dynamics of sexual assault on the Pitt campus, promote healthy relationships and effective communication, and reduce the occurrence of sexual victimization.

For more information, call (412) 648-7856, visit 926 William Pitt Union or see http://www.pitt.edu/~saserv, or call (412) 648-7844.

STUDENT GOVERNMENT
The Graduate and Professional Student Association (GPSA) is the official umbrella graduate and professional student organization at the University of Pittsburgh. GPSA is made up of graduate student organizations (GSOs) from each of the schools at the University. The purpose of GPSA is to represent both the academic and non-academic interests of all graduate and professional students and to provide student-initiated and student-controlled services. GPSA coordinates efforts with graduate student organizations from the different University graduate and professional schools and provides graduate student representation on key University-wide committees. The GPSA also has a limited amount of funding to support student scholarship, including funding for student travel to academic conferences, for
interlibrary loans, and for academic programs sponsored by individual schools within the University. For more information, see the GPSA Web site at http://www.pitt.edu/~gpsa2.

**STUDENT ORGANIZATIONS**

Over 250 certified student organizations provide a myriad of opportunities for extracurricular activity. In addition to student government, media, publications, and programming organizations, there are clubs for sports, recreation, performing arts, politics, religion, service, professional and academic pursuits, ethnic and cultural enrichment, and many other specialized interests. A complete list of certified student organizations is available from the Office of Student Activities (140 William Pitt Union, 412-648-7830, or see http://www.pitt.edu/~studact/).

**SURVIVAL SKILLS AND ETHICS PROGRAM**

The Survival Skills and Ethics Program sponsors a series of monthly workshops and activities designed to help train graduate and professional students in the skills necessary for success during and after their time at the University. These skills include the ability to communicate both orally and in writing, to learn and teach, to obtain and keep a job, to manage stress and time, and to behave responsibly. Graduate and professional programs often do not provide comprehensive training in all of these areas; the Survival Skills & Ethics Program encourages the development of mechanisms for assisting graduate and professional students in developing these skills.

For more information on workshops and other services provided by the program, call (412) 624-7098, visit 4K57 Posvar Hall, or see http://www.pitt.edu/~survival/.

**VETERANS SERVICES**

The staff of the Office of Veterans Services assists veterans, war orphans, and veterans’ dependents in obtaining and using their VA educational benefits. In addition to these services, the office implements the VA work-study program. The staff serves as the veterans’ representative with the University, the Veterans Administration, and other related agencies. The office is located in room G-3 of Thackeray Hall. Call (412) 648-7885 or see http://www.pitt.edu/~srfsweb/vetPgVetServ.htm for more information.

**WILLIAM PITT UNION**

The William Pitt Union, built just over 100 years ago as the Schenley Hotel, has been extensively remodeled and renovated. The union is located across Bigelow Boulevard from the Cathedral of Learning and serves as the focal point for campus activities, student organizations, and the Division of Student Affairs. The union features a recreation center, arcade, food service, information service, art gallery, TV room, dance studio, lounges, meeting rooms, student organization offices, ticket office, dining rooms, and several multi-use spaces for programs. To reach the union’s information desk, call (412) 648-7815.
The principal goal of the University of Pittsburgh School of Medicine is the education of scholarly physicians. This goal is achieved by emphasizing the centrality of the patient as the focus of health care by providing a firm understanding of the sciences basic to medicine, and by fostering the application of principles of biomedical problem solving to the care of patients. Students must develop an understanding of ethical principles in medicine and share the application of these principles to specific problems. Development, early in a student’s career, of habits of self-education by methods that include problem-based and self-directed learning, communication skills, and computer-assisted education is critical to the learning process, which must occur throughout the professional life of a physician.

The information below details the school’s MD program. For information on the school’s Master of Science and doctoral programs, see the School of Medicine’s listing under Graduate Programs, beginning on page 273.

CONTACT INFORMATION

Office of Admissions
518 Scaife Hall
3550 Terrace Street
Pittsburgh, PA 15261
Phone: (412) 648-9891
Fax: (412) 648-8768
E-mail: admissions@medscholl.pitt.edu
Web site: http://www.dean-med.pitt.edu

REQUIREMENTS FOR ADMISSION

In examining each student’s candidacy, the Admissions Committee considers the following:

• Undergraduate, post baccalaureate, and graduate records
• Current MCAT scores, valid for only three years
• Independent and advanced study
• Research
• Work experience
• Extracurricular activities including depth and breadth of the student’s interests and activities outside the classroom – volunteer activities, community service, student government, hobbies, clubs, athletics
• Three academic recommendations
• Personal character – integrity, communication skills, leadership, motivation, creativity
• Supplemental essays
• Personal interviews

The following subject requirements must be completed prior to entry (Note: one year means two semesters or three quarters):

• Biology, one year (including laboratory; botany not acceptable)
• General or inorganic chemistry, one year (including laboratory)
• Organic chemistry, one year (including laboratory)
• Physics, one year (including laboratory)
• English, one year

INTERNATIONAL APPLICANTS

Students who are not United States citizens must hold permanent resident visas (not conditional) upon entry. Exceptional students with the equivalent of a baccalaureate degree from outside the United States or Canada who have completed one year of graduate or post baccalaureate work in the United States in a field related to medicine may be considered for admission. Decisions as to the adequacy of course work taken at a foreign school are made on a case-by-case basis by the dean of admissions.

For further information on application requirements for international students, see Graduate Admissions of International Students on page 3 of this bulletin.

APPLICATION PROCEDURES AND DEADLINE

The School of Medicine participates in the American Medical College Application Service (AMCAS) of the Association of American Medical Colleges. AMCAS provides a centralized system for applying to any participating medical school. The AMCAS Application for Admission, common to all participating medical schools, is distributed by the AMCAS and preprofessional advisors. Requests for applications should be directed to:

AMCAS
2450 N. Street, N.W.
Suite 201
Washington, DC 20037-1131
Phone: (202) 828-0600

Applicants are urged to file their AMCAS applications as early as possible but certainly before the University of Pittsburgh’s deadline of December 1 (if applying for the Early Decision Program, note the earlier deadlines below). In addition to the AMCAS application and fee, applicants must submit a nonrefundable application fee of $60, three academic letters of recommendation or an evaluation of a premedical advisory committee, and other supplemental materials.

A waiver form for the AMCAS application fee is included with the material provided by AMCAS. Any applicant who is granted an AMCAS waiver will not be required to pay the University application fee. Detailed information and specific requirements for letters of recommendation are outlined in our Supplemental Application Packet. Applicants who are not able to comply with these requirements should
contact the director of the School of Medicine’s Office of Admissions in writing. It is the applicant’s responsibility to ensure that all materials, including letters of recommendation, are received by the Office of Admissions no later than the posted deadline. Extensions are rarely granted.

REAPPLICATION
Applicants who were not previously accepted must submit a new application, updated references, and transcripts for any additional academic work undertaken since the first application was submitted. Reapplicants are also expected to demonstrate how their qualifications have been strengthened during this period. Any previous application may be reviewed by the committee when the current application is considered. Any applicant who has been refused admission on three prior occasions is ineligible to apply.

APPLICATION REVIEW PROCEDURES AND INTERVIEWS
When the school receives all of the required materials, applications will be reviewed according to medical selection committee procedure. Those applicants who best match the school’s requirements will be invited for an interview. All interview offers are made in writing. Applicants cannot be admitted without an interview. After the interview, the Admissions Committee reviews all information related to the applicant and then ranks him or her. At a meeting in late February, the Committee decides which ranks are admitted, wait listed, and not admitted.

The large number of applications the School of Medicine receives precludes inviting all candidates for interviews. Decisions regarding interviews are made by members of the Admissions Committee after a thorough review of the completed application, including all supporting material.

EARLY DECISION PROGRAM
The School of Medicine participates in the early decision program, with application made through AMCAS. In this program, the applicant agrees to apply only to the University of Pittsburgh with the understanding that, if accepted, the applicant will matriculate here. The deadline for receipt of application materials at AMCAS headquarters is August 1. All credentials must be received by the Admissions Office no later than August 26. The School of Medicine agrees to make a decision regarding the application by October 1. This allows the applicant to seek admission to other schools if not accepted here. Early decision applicants may be admitted, not admitted, or deferred for review at a later date.

ADMISSION WITH ADVANCED STANDING
The school has a limited transfer admission program. Consideration is given for advanced standing to the third-year class on an individual basis, depending on special circumstances, qualifications, and availability of openings. Applicants must have completed all premedical undergraduate courses specified elsewhere in this publication, must be in good standing at the United States medical school from which the transfer is sought, and must take Step 1 of the United States Medical Licensing Examination (USMLE) by June preceding the July in which the applicant desires to matriculate. No transfers will be accepted from medical schools that are not accredited by the Liaison Committee on Medical Education. Applicants from any other professional or graduate school must apply as first-year students.

ADMISSION DATES TO REMEMBER
June 1 - Earliest AMCAS application date
August 1 - Early decision application date
August 26 - Deadline for supplemental information and letters of recommendation for Early Decision Program
October 1 - Early decision acceptance notification
February - Acceptance notification begins
December 1 - Application deadline for AMCAS
January 11 - Deadline for supplemental application and letters of recommendation
May 16-23 - A $100 non-refundable deposit fee must be received to hold the student’s place in the class

FINANCIAL AID
Financial aid for medical students is available in the form of federal loans, private loans, and institutionally administered aid. Aid is awarded on the basis of need as determined from information supplied on the Free Application for Federal Student Aid (FAFSA) by the student. The student’s parents and, if applicable, the student’s spouse. If a student does not wish to supply parental information, Federal Stafford loans are available for up to $38,500 or cost of attendance per academic year, whichever is less. Students with a cost of attendance and financial need higher than the Stafford loan limits may apply for a student loan through a private lender. By supplying parental information, students will be considered for a limited number of institutional scholarships and loans on the basis of demonstrated financial need. Financial aid application materials are mailed in February to all admitted students.

ACADEMIC STANDARDS
The University of Pittsburgh School of Medicine (UPSOM) offers a centrally governed, integrated, interdisciplinary curriculum which emphasizes problem-solving and self-directed learning. The academic year is in session between 10 and 12 months, depending on the level of study. Calendars specific to each year can be found in the student handbook at the school’s Web site (http://www.dean-med.pitt.edu/).
The first three years are a set curricula and the fourth year is a combination of both set and elective offerings. To be considered to be making satisfactory academic progress, the student must complete the first two years of the curriculum by the end of the third year after initial enrollment. The full text of the guidelines for student promotion can be found in the student handbook at the school’s Web site. Students are governed by an Honor Code, which seeks to support and sustain respect for each other as well as for patients. The full text of the Honor Code can be found in the student handbook.

GRADING
The official grading of the UPSOM is honors/satisfactory/unsatisfactory (H/S/U). There is an internal deviation of the grading during the third and fourth years only, adding high and low satisfactory. These are unofficial and appear only on the Dean’s letter of recommendation in the support of residency applications.

More information is available in our student handbook found at the school’s Web site: http://www.dean-med.pitt.edu/. The handbook can be found on the Web site in the menu for the Office of Student Affairs.
ADVISING

The UPSOM employs a longitudinal advising system throughout the four years. The Faculty and Students Together (FAST) groups are assigned during freshman orientation and consist of four or five first-year students, two second-year students, and one clinical faculty member. These groups meet both individually and collectively. Over the course of the first two years there are lunchtime sessions to discuss summer opportunities for research and clinical preceptorship as well as sessions to provide information on the different specialty areas.

The third year brings mandatory career planning sessions in small groups when the student takes a half-day to work through the process of learning how to make career decisions. Each student will choose a faculty advisor to assist with planning the fourth year to be the most well rounded preparation for the student’s chosen career path. Other resources available to the student are the Academic Development Psychological Counseling offices. These resources can provide tutors, arrange special testing, and help with stress and other issues that arise during these four years.

DEGREE REQUIREMENTS

The student must have successfully completed the curricular requirements for each of the four years. The student must have received a passing grade on the United States Medical Licensing Examination (USMLE) Steps 1 and 2, the pass being determined in accordance with established National Board of Medical Examiners policy. The student must meet accepted standards of professional conduct and emotional stability.

DEGREE OPTIONS

In addition to the MD program, the UPSOM offers a structured MD/PhD joint degree program. Information is available at the school’s Web site: http://www.dean-med.pitt.edu/. Click on MD/PhD Program.

SCHOOL OF MEDICINE FACULTY

DEPARTMENT OF ANESTHESIOLOGY

JAMES ACUFF, Assistant Professor, MD, University of Tennessee
LAURI ADLER, Assistant Professor, MD, West Virginia University School of Medicine
SHUSHMA AGGARWAL, Associate Professor, MBBS, King George’s Medical College
ZULFAQAR ALAM, Instructor, MBBS, Karachi University
DEREK ANGUS, Associate Professor, MBChB, University of Glasgow School of Medicine
MARIE BALDISSERY, Assistant Professor, MD, University of Navarra
NICHOLAS BIRCHER, Associate Professor, MD, University of Pittsburgh School of Medicine
RICHARD BJERKE, Associate Professor, MD, Baylor College of Medicine
ROBERT BORETSKY, Assistant Professor, MD, Jefferson Medical College
CHARLES BOUCEK, Associate Professor, MD, Temple University School of Medicine
ARTHUR BOUJOUKOS, Associate Professor, MD, Tufts University School of Medicine
STEPHEN BOWLES, Assistant Professor, MD, University of Pittsburgh School of Medicine
BARBARA BRANDON, Professor, MD, University of Pennsylvania School of Medicine
JOHN CALDWELL, Assistant Professor, MD, University of Pittsburgh School of Medicine
JOSEPH CARCILLO, Assistant Professor, MD, George Washington University School of Medicine
AJAY CHALASANI, Instructor, MBBS, Kakatiya Medical College
LAKSHMIPATHI CHELLURI, Associate Professor, MD, Andhra Medical College
MARION CHUNG, Assistant Professor, MD, Bowman Gray School of Medicine
ROBERT CLARK, Assistant Professor, MD, Medical College of Wisconsin
GILLES CLERMONT, Assistant Professor, MDCM, McGill University
D. RYAN COOK, Professor, MD, University of Pittsburgh School of Medicine
DORIS COPE, Professor, MD, Medical College of Georgia
RICHARD COYLE, Assistant Professor, MD, Temple University School of Medicine
KATHY CRIVELLI, Assistant Professor, DO, West Virginia School of Osteopath Medicine
PATRICIA DALBY, Assistant Professor, MD, University of Pittsburgh School of Medicine
JOSEPH DARBY, Associate Professor, MD, University of Illinois College of Medicine
DEREK DAVIS, Assistant Professor, MD, University of Wisconsin Medical School
PETER DAVIS, Professor, MD, Albert Einstein College of Medicine
RUSSELL DELUDE, Visiting Assistant Professor, PhD, Vanderbilt University
MICHAEL DEVITA, Assistant Professor, MD, Georgetown University School of Medicine
TERRY EDWARDS, Assistant Professor, MD, Jefferson Medical College

RICHARD FEDUSKA, Assistant Professor, MD, Jefferson Medical College

GAVIN FINE, Assistant Professor, MBBCh, University of Witwatersrand Medical School

HELENE FINEGOLD, Assistant Professor, MD, George Washington University School of Medicine

MITCHELL FINK, Visiting Professor, MD, Washington University

SUSAN FIRESTONE, Associate Professor, MD, Yale University School of Medicine

SEMYON FISHKIN, Assistant Professor, MD, Russian Medical University

PATRICK FORTE, Assistant Professor, MD, West Virginia University School of Medicine

SION GHANOONI, Assistant Professor, MD, Pahlavi Med School

RONALD GLICK, Assistant Professor, MD, University of Illinois College of Medicine

CAROL GRECO, Research Assistant Professor, PhD, University of Virginia

JAMES GREENBERG, Assistant Professor, MD, University of Connecticut School of Medicine

AKE GRENVIK, Distinguished Service Professor, MD, PhD, Karolinska Institute

FERENC GYULAI, Assistant Professor, MD, Szeged University School of Medicine

DAVID HERTZOG, Instructor, DO, Philadelphia College of Osteopathic Medicine

IBTESAM HILMI, Assistant Professor, MD, University of Baghdad

GREGG HOMANICS, Assistant Professor, PhD, North Carolina State University

MARK HUDSON, Assistant Professor, MD, Jefferson Medical College

KENNETH JACOBSON, Assistant Professor, MD, Mount Sinai School of Medicine

ARIE KANDEL, Assistant Professor, MD, University of South Carolina School of Medicine

WENDY KANG, Associate Professor, MD, JD, University of Texas Southwestern Medical School

CHIEN-KUO KAO, Assistant Professor, MD, National Taiwan University College of Medicine

VLADIMIR KAPLAN, Research Assistant Professor, MD

BUPESH KAUL, Assistant Professor, MD, All India Institute of Medical Sciences

JOHN KELLUM, Assistant Professor, MD, Medical College of Ohio

RAINER KENTNER, Research Assistant Professor, MD, Eberhard-Karls University Medical School

MICHAEL KENTOR, Assistant Professor, MD, University of Pittsburgh School of Medicine

LUBNA KHAN, Instructor, MD, Dow Medical College

MOHAMMED KHANZADA, Assistant Professor, MD, Liaquat Medical College

MIROSLAV KLAJN, Professor, MD, PhD, Charles University School of Medicine

ROBERT KROHNER, Visiting Associate Professor, DO, University of Osteopathic Medicine & Health Science

JAMES KRUGH, Associate Professor, MD, University of Pittsburgh School of Medicine

VICTOR KUBIT, Assistant Professor, MD, University of Pittsburgh School of Medicine

IRA LANDSMAN, Assistant Professor, MD, SUNY

ROBERT LAWLER, Assistant Professor, MD, Jefferson Medical College

KAREN LEDONNE, Assistant Professor, MD, Jefferson Medical College

PETER LINDEN, Associate Professor, MD, DMD, Hahnemann University School of Medicine

JOSEPH MACCHIAROLI, Assistant Professor, MD, University of Pittsburgh School of Medicine

MOYSES MANDEL, Associate Professor, MD, Federal University of Rio de Janeiro School of Medicine

GORDON MANDELL, Assistant Professor, MD, University of Maryland School of Medicine

MICHAEL MANGIONE, Assistant Professor, MD, University of Pittsburgh School of Medicine

VENKAT MANTHA, Assistant Professor, MBBS, Osmania University

DAWN MARCUS, Assistant Professor, MD, SUNY

GEORGE MARTICH, Associate Professor, MD, West Virginia University School of Medicine

WILLIAM MCIVOR, Assistant Professor, MD, University of Wisconsin School of Medicine
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>YOGINI MEHTA</td>
<td>Assistant Professor, MD</td>
<td>Bombay University</td>
</tr>
<tr>
<td>BRIAN MELNICK</td>
<td>Assistant Professor, MD</td>
<td>Pennsylvania State University School of Medicine</td>
</tr>
<tr>
<td>LI MENG</td>
<td>Assistant Professor, MD, MPH</td>
<td>Harbin Medical University</td>
</tr>
<tr>
<td>MARC METCALFE</td>
<td>Assistant Professor, MD</td>
<td>Case Western Reserve University School of Medicine</td>
</tr>
<tr>
<td>DAVID METRO</td>
<td>Assistant Professor, MD</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td>SUSAN MILROY</td>
<td>Visiting Instructor, MBBS</td>
<td>Westminster Medical School</td>
</tr>
<tr>
<td>ADELAIDA MIRO</td>
<td>Associate Professor, MD</td>
<td>University Autonoma de Ciudad</td>
</tr>
<tr>
<td>JACQUELYN MORILLO-DELERME</td>
<td>Assistant Professor, MD, Universidad Central Del Caribe</td>
<td></td>
</tr>
<tr>
<td>SOHEYLA NAZARNIA</td>
<td>Assistant Professor, MD</td>
<td>Hacettepe University Medical School</td>
</tr>
<tr>
<td>TODD ORAVITZ</td>
<td>Assistant Professor, MD</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td>STEVEN OREBAUGH</td>
<td>Assistant Professor, MD</td>
<td>Temple University School of Medicine</td>
</tr>
<tr>
<td>RICHARD ORR</td>
<td>Associate Professor, MD</td>
<td>West Virginia University School of Medicine</td>
</tr>
<tr>
<td>JUHAN PAISTE</td>
<td>Assistant Professor, MD</td>
<td>Tartu University Faculty of Medicine</td>
</tr>
<tr>
<td>RITA PATEL</td>
<td>Assistant Professor, MD</td>
<td>American University of the Caribbean</td>
</tr>
<tr>
<td>RAYMOND PLANINISC</td>
<td>Assistant Professor, MD</td>
<td>Mount Sinai School of Medicine</td>
</tr>
<tr>
<td>ERNESTO PRETTO</td>
<td>Associate Professor, MD</td>
<td>University of Panama</td>
</tr>
<tr>
<td>JOSEPH QUINLAN</td>
<td>Associate Professor, MD</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td>HARIH RAMAKRISHNA</td>
<td>Instructor, MD</td>
<td>Bangalore University</td>
</tr>
<tr>
<td>NASHAAT RIZK</td>
<td>Instructor, MBBCh</td>
<td>Ain Shams University</td>
</tr>
<tr>
<td>PAUL ROGERS</td>
<td>Associate Professor, MD</td>
<td>University of Arkansas College of Medicine</td>
</tr>
<tr>
<td>RYAN ROMEO</td>
<td>Instructor, MD</td>
<td>Pennsylvania State University College of Medicine</td>
</tr>
<tr>
<td>CAROL ROSE</td>
<td>Assistant Professor, MD</td>
<td>University of Miami School of Medicine</td>
</tr>
<tr>
<td>ALAN ROSEN BLOOM</td>
<td>Assistant Professor, MD</td>
<td>University of Maryland School of Medicine</td>
</tr>
<tr>
<td>JAY ROSKOPH</td>
<td>Assistant Professor, MD</td>
<td>Ohio State University College of Medicine</td>
</tr>
<tr>
<td>ARMANDO ROTONDI</td>
<td>Assistant Professor, PhD</td>
<td>University of Wisconsin</td>
</tr>
<tr>
<td>THOMAS RUDY</td>
<td>Professor, PhD</td>
<td>University of Notre Dame</td>
</tr>
<tr>
<td>DANIEL SABO</td>
<td>Assistant Professor, MD</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td>PETER SAFAR</td>
<td>Distinguished Service Professor, MD</td>
<td>University of Vienna</td>
</tr>
<tr>
<td>JOHN SCHAEFER</td>
<td>Assistant Professor, MD</td>
<td>West Virginia University School of Medicine</td>
</tr>
<tr>
<td>RAYMOND SCHWARTZ</td>
<td>Assistant Professor, MD</td>
<td>Baylor College of Medicine</td>
</tr>
<tr>
<td>JACK SCOTT</td>
<td>Assistant Professor, MD</td>
<td>Temple University School of Medicine</td>
</tr>
<tr>
<td>VICTOR SCOTT</td>
<td>Assistant Professor, MD, SUNY</td>
<td></td>
</tr>
<tr>
<td>KELLY SHANNON</td>
<td>Assistant Professor, MD</td>
<td>Baylor College of Medicine</td>
</tr>
<tr>
<td>PAUL SHAY</td>
<td>Assistant Professor, MD</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td>RAJA SHEHADI</td>
<td>Assistant Professor, MD, The American University of Beirut</td>
<td></td>
</tr>
<tr>
<td>SARASWATHY SHEKAR</td>
<td>Instructor, MBBS</td>
<td>Thanjavur Medical College</td>
</tr>
<tr>
<td>DAVID SINCLAIR</td>
<td>Assistant Professor, MD</td>
<td>McGill University</td>
</tr>
<tr>
<td>CARL SIRIO</td>
<td>Assistant Professor, MD, MPH</td>
<td>UMD, NJ</td>
</tr>
<tr>
<td>JAN SMITH</td>
<td>Professor, MD</td>
<td>University of Pretoria School of Medicine</td>
</tr>
<tr>
<td>NASSER SONBOLIAN</td>
<td>Associate Professor, MD</td>
<td>Isfahan Medical School</td>
</tr>
<tr>
<td>DHIREN SONI</td>
<td>Assistant Professor, DO</td>
<td>Nova/Southeastern University</td>
</tr>
<tr>
<td>GINA SPARVERO</td>
<td>Assistant Professor, MD</td>
<td>Medical College of Pennsylvania</td>
</tr>
<tr>
<td>STANLEY STEZOSKI</td>
<td>Research Assistant Professor</td>
<td></td>
</tr>
<tr>
<td>ERIN SULLIVAN</td>
<td>Associate Professor, MD</td>
<td>Louisiana State University School of Medicine</td>
</tr>
<tr>
<td>MAHNAZ TADZIECHY</td>
<td>Associate Professor, MD</td>
<td>Tehran University School of Medicine</td>
</tr>
<tr>
<td>PEI TANG</td>
<td>Assistant Professor, PhD, SUNY</td>
<td></td>
</tr>
</tbody>
</table>
ANN THOMPSON, *Professor*, MD, Tufts University School of Medicine

MARCIA TIMKO-SHANNON, *Assistant Professor*, MD, Baylor College of Medicine

REVATHI TOSHOK, *Instructor*, DO, Kirksville College of Osteopathic Medicine

MARK TROIANO, *Assistant Professor*, MD, Temple University School of Medicine

WILLIAM TULLOCK, *Assistant Professor*, MD, University of Tennessee College of Medicine

MANUEL VALLEJO, *Assistant Professor*, MD, DMD, West Virginia University School of Medicine

DANIEL VAN RIPER, *Associate Professor of Clinical Medicine*, MD, Hahnemann University Medical School

SHEKHAR VENKATARAMAN, *Associate Professor*, MD, Jawaharlal Inst of Postgrad Med Ed & Res

HELEN WESTMAN, *Associate Professor*, MD, University of Kentucky College of Medicine

STEVEN WHITEHURST, *Assistant Professor*, MD, University of Alabama School of Medicine

BRIAN WILLIAMS, *Assistant Professor*, MD, Northeastern Ohio University College of Medicine

SUSAN WOELFEL, *Associate Professor*, MD, West Virginia University School of Medicine

RANDOLPH WOOD, *Instructor*, MD, Medical College of Pennsylvania

YAN XU, *Associate Professor*, PhD, SUNY

ANDRZEJ ZIELKE, *Assistant Professor*, MD, Medical Academy of Lublin

**DEPARTMENT OF CELL BIOLOGY AND PHYSIOLOGY**

BILL AMEREDES, *Research Assistant Professor*, PhD, Ohio State University

NEIL BRADBURY, *Assistant Professor*, PhD, University of Wales College of Medicine

ROBERT BRIDGES, *Professor*, PhD, University of Kentucky

DANIEL DEVOR, *Assistant Professor*, PhD, SUNY

PETER DRAIN, *Assistant Professor*, PhD, Massachusetts Institute of Technology

GEORGIA DUKER, *Assistant Professor*, PhD, University of Pittsburgh

RAYMOND FRIZZELL, *Professor*, PhD, University of Pittsburgh School of Medicine

NUPUR GANGOPADHYAY, *Research Assistant Professor*, PhD, Indian Veterinary Research Institute

VERNON GAY, *Associate Professor*, PhD, Indiana University

SANDRA MURRAY, *Professor*, PhD, University of Iowa

SERGIO ONATE, *Assistant Professor*, PhD, University of Colorado

MARCIA ONTELL, *Professor*, PhD, UMD, NJ

MARTIN ONTELL, *Research Assistant Professor*, PhD, University of Pittsburgh

KATHRYN PETERS, *Research Assistant Professor*, PhD, George Washington University

TONY PLANT, *Professor*, PhD, University of London

EDWARD REDGATE, *Associate Professor*, PhD, University of Minnesota

KATHLEEN RYAN, *Associate Professor*, PhD, Northwestern University

ABHIRAM SAHU, *Research Associate Professor*, PhD, University of Calcutta

GUY SALAMA, *Professor*, PhD, University of Pennsylvania

ASHVANI SINGH, *Research Assistant Professor*, PhD, Avadh University

DONNA STOLZ, *Research Assistant Professor*, PhD, University of Massachusetts

WILLIAM WALKER, *Assistant Professor*, PhD, University of Texas Health Science Center

SIMON WATKINS, *Associate Professor*, PhD, Newcastle University

ANTHONY ZELEZNÍK, *Professor*, PhD, University of Michigan

ALLAN ZHAO, *Assistant Professor*, PhD, University of Southern California

**DEPARTMENT OF DERMATOLOGY**

JOHN ABERNETHY, *Associate Professor*, MD, PhD, Duke University School of Medicine

JAMES BRIDENSTINE, *Associate Professor*, MD, University of Colorado School of Medicine

ROSE DRAVIAM, *Visiting Instructor*, MD, University of Ceylon School of Medicine

GEZA ERDOS, *Research Assistant Professor*, PhD, University of Budapest

LOUIS FAŁO, *Associate Professor*, MD, PhD, Harvard Medical School
YUKAI HE, Research Assistant Professor, MD, PhD, The First Medical University

SHARON HRABOVSKY, Assistant Professor, MD, University of Pittsburgh School of Medicine

BRIAN JEGASOTHY, Professor, MD, University of Ceylon School of Medicine

DOUGLAS KRESS, Assistant Professor, MD, Jefferson Medical College

PEARL KWONG, Assistant Professor, MD, PhD, University of Alberta School of Medicine

ADRIANA LARREGINA DE MORELLI, Visiting Instructor, MD, PhD, University of LaPlata

DEPARTMENT OF EMERGENCY MEDICINE

JA WAID AKHTAR, Assistant Professor, MBBS, Dow Medical College

THOMAS AUBLE, Research Assistant Professor, PhD, University of Pittsburgh

WILLIAM BAKE, Research Instructor, MPH, University of Michigan

MICHAEL BAUMANN, Assistant Professor, MD, MPH, New York Medical College

JOHN BENITEZ, Assistant Professor, MD, Southern Illinois University School of Medicine

CLIFTON CALLAWAY, Assistant Professor, MD, PhD, University of California

JOHN COLE, Assistant Professor, MD, University of Pennsylvania School of Medicine

DEVON DAVIS, Instructor, MD, Vanderbilt University School of Medicine

TED DELBRIDGE, Assistant Professor, MD, Eastern Virginia Medical School

SUSAN DUNMIRE, Associate Professor, MD, University of Pittsburgh School of Medicine

SCOTT HARRINGTON, Visiting Instructor, MD, State University of New York Health Science Center

MARGARET HSIEIH, Visiting Instructor, MD, University of Medicine and Dentistry of NJ

CHARLES KING, Assistant Professor, MD, Yale University School of Medicine

PETER LAMBROU, Assistant Professor, MD, Hahnemann University School of Medicine

JOHN MAHONEY, Assistant Professor, MD, University of Pittsburgh School of Medicine

VINCENT MOSESSO, Assistant Professor, MD, University of Pittsburgh School of Medicine

KEVIN O’TOOLE, Associate Professor, MD, University of Pittsburgh School of Medicine

PAUL PARIS, Professor, MD, University of Pittsburgh School of Medicine

RONALD ROTH, Associate Professor, MD, University of Pittsburgh School of Medicine

HENRY WANG, Visiting Instructor, MD, UMD, NJ

ALLAN WOLFSION, Professor, MD, University of Pennsylvania School of Medicine

DONALD YEALY, Professor, MD, Medical College of Pennsylvania

DEPARTMENT OF FAMILY MEDICINE & CLINICAL EPIDEMIOLOGY

YA’AQOV ABRAMS, Assistant Professor, MD, Boston University School of Medicine

INIS BARDELLA, Assistant Professor, MD, Temple University School of Medicine

ILENE BURNS, Assistant Professor, MD, Johns Hopkins University School of Medicine

SEYMOUR GRÜFFERMAN, Professor, MD, DrPH, SUNY

JANINE JANOSKY, Assistant Professor, PhD, University of Pittsburgh

SUE KIMM, Professor, MD, Yale University School of Medicine

EMANUEL KRIFCHER, Associate Professor, MD, University of Habana

DANFORTH LINCOLN, Assistant Professor, MD, SUNY

WILLIAM MARKLE, Assistant Professor, MD, Pennsylvania State University

DONALD MIDDLETON, Professor, MD, University of Rochester School of Medicine

TAMMY MIECZKOWSKI, Research Assistant Professor, MA, University of Pittsburgh

LILI PENKOWER, Assistant Professor, PhD, University of Pittsburgh

DAN SOMOGLYI, Assistant Professor, MD, McMaster Medical School

RICHARD ZIMMERMAN, Associate Professor, MD, Ohio State University College of Medicine

DEPARTMENT OF MEDICINE

STEVEN ABO, Assistant Professor, MD, Albert Einstein College of Medicine
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOWARD COHEN</td>
<td>Visiting Associate Professor, MD,</td>
<td>New York University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOSEPH CONIGLIARO</td>
<td>Assistant Professor, MD,</td>
<td>Harvard Medical School</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROSEMARIE CONIGLIARO</td>
<td>Assistant Professor, MD,</td>
<td>SUNY</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROBERT COOK</td>
<td>Assistant Professor, MD, MPH,</td>
<td>University of North Carolina School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GREGORY COOPER</td>
<td>Associate Professor, MD, PhD,</td>
<td>Stanford University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PETER COUNIHAN</td>
<td>Assistant Professor, MBBCh,</td>
<td>Royal College of Surgeons</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAWRENCE CRAWFORD</td>
<td>Assistant Professor, MD,</td>
<td>University of Virginia</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDWARD CURTISS</td>
<td>Professor, MD,</td>
<td>New York University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JAMES DAUBER</td>
<td>Professor, MD,</td>
<td>Cornell University Medical College</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREDERICK DERUBERTIS</td>
<td>Professor, MD,</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRUCE DIXON</td>
<td>Associate Professor, MD,</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICHAEL DONAHOE</td>
<td>Associate Professor, MD,</td>
<td>Hahnemann University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALBERT DONNENBERG</td>
<td>Associate Professor, PhD, Johns</td>
<td>Hopkins University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RICHARD DUERR</td>
<td>Assistant Professor, MD,</td>
<td>University of Minnesota Medical School</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PATRICIA EAGON</td>
<td>Associate Professor, PhD,</td>
<td>University of Pittsburgh</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRETCIEN EBERHART</td>
<td>Visiting Instructor, MD,</td>
<td>State University of New York</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DANIEL EDMUNDOWICZ</td>
<td>Assistant Professor, MD,</td>
<td>Hahnemann University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MERRILL EGORIN</td>
<td>Professor, MD,</td>
<td>Johns Hopkins University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAROLYN ELLIS</td>
<td>Assistant Professor, MD,</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAWRENCE ELLIS</td>
<td>Professor, MD,</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICHAEL FARRELL</td>
<td>Visiting Assistant Professor, MD,</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAROL FEGHALI</td>
<td>Research Assistant Professor, PhD,</td>
<td>Tulane University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADAM FELDMAN</td>
<td>Instructor, MD,</td>
<td>Temple University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTHUR FELDMAN</td>
<td>Professor, MD, PhD,</td>
<td>Louisiana State University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICHAEL FINE</td>
<td>Associate Professor, MD,</td>
<td>Hahnemann University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARSHA FINO</td>
<td>Visiting Assistant Professor, MD,</td>
<td>Northeastern Ohio University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GARY FISCHER</td>
<td>Assistant Professor, MD,</td>
<td>Harvard Medical School</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WILLIAM FOLLANSBEE</td>
<td>Professor, MD,</td>
<td>University of Pennsylvania School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANDREA FOX</td>
<td>Associate Professor, MD,</td>
<td>Boston University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DONALD FRALEY</td>
<td>Associate Professor, MD,</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHARLES FRIEDMAN</td>
<td>Professor, PhD,</td>
<td>University of North Carolina</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CYNTHIA GADD</td>
<td>Assistant Professor, PhD,</td>
<td>University of Pittsburgh</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LEONARD GANZ</td>
<td>Visiting Associate Professor, MD,</td>
<td>Harvard Medical School</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WILLIAM GARDNER</td>
<td>Associate Professor, PhD,</td>
<td>University of Utah</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEBBIE GAZZUOLO</td>
<td>Assistant Professor, MD,</td>
<td>Washington University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEVIN GIBSON</td>
<td>Associate Professor, MD, UMD,</td>
<td>NJ Robert Wood Johnson Medical School</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHESTER GOOD</td>
<td>Associate Professor, MD,</td>
<td>George Washington University School of Medicine &amp; Health Sciences</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRET GOODPASTER</td>
<td>Research Instructor, PhD,</td>
<td>Ball State University</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOHN GORCSAN</td>
<td>Associate Professor, MD,</td>
<td>Pennsylvania State University College of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADAM GORDON</td>
<td>Instructor, MD,</td>
<td>University of Pittsburgh School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VENKATESHWAR GOTTIPAT</td>
<td>Assistant Professor, MD, PhD,</td>
<td>Emory University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOBY GRAHAM</td>
<td>Associate Professor, MD,</td>
<td>Temple University School of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EVELYN GRANIERI</td>
<td>Associate Professor, MD,</td>
<td>Northwestern University Medical School</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROSANNE GRANIERI</td>
<td>Associate Professor, MD,</td>
<td>Northwestern University Med School</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUSAN GREENSPAN</td>
<td>Visiting Professor, MD,</td>
<td>Harvard Medical School</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LORI HALASZYNSKI, Assistant Professor, MD, University of Pittsburgh School of Medicine

PAUL HAN, Assistant Professor, MD, New York University School of Medicine

BARBARA HANUSA, Research Assistant Professor, PhD, Carnegie Mellon University

MARYAM HARIRI, Research Instructor, PhD, University of North Texas

LEE HARRISON, Associate Professor, MD, Emory University School of Medicine

JOAN HARVEY, Associate Professor, MD, Johns Hopkins University School of Medicine

JING HE, Research Instructor, MD, PhD, Shanxi Medical University

JAYE HEFNER, Assistant Professor, MD, Northeastern Ohio University College of Medicine

RONALD HERBERMAN, Professor, MD, New York University School of Medicine

WARREN HILL, Research Assistant Professor, PhD, University of Adelaide

MONTO HO, Professor, MD, Harvard Medical School

ERIKA HOFFMAN, Assistant Professor, MD, Hahnemann University

ROBERT HOFFMAN, Associate Professor, MD, Duke University School of Medicine

DEBRA HOROWITZ TABAS, Assistant Professor, MD, University of Pittsburgh School of Medicine

BO HU, Research Instructor, PhD, Ohio State University

REBECCA HUGHEY, Associate Professor, PhD, University of Pittsburgh

SUSAN HUNT, Associate Professor, MD, University of Washington School of Medicine

ALDO IACONO, Assistant Professor, MD, University of Bologna

BRUCE JOHNSON, Assistant Professor, MD, Ohio State University

DANIEL JOHNSON, Assistant Professor, PhD, Princeton University

JOHN JOHNSON, Professor, MD, Medical College of Virginia

RICHARD JOHNSON, Visiting Assistant Professor, MD, Pennsylvania State University Medical School

JAMES JOHNSTON, Associate Professor, MD, University of Pittsburgh School of Medicine

AMY JUSTICE, Assistant Professor, MD, PhD, Yale University School of Medicine

HOSSAM KANDIL, Assistant Professor, MBChB, Alexandria University

STEVEN KANTER, Associate Professor, MD, University of Texas Medical School

WISHWA KAPOOR, Professor, MD, Washington University School of Medicine

WILLIAM KATZ, Assistant Professor, MD, Ohio State University

DAVID KELLEY, Associate Professor, MD, University of Maryland School of Medicine

AMY KILBOURNE, Research Assistant Professor, PhD, University of California

LINDA KING, Assistant Professor, MD, Northwestern University Medical School

JOHN KIRKWOOD, Professor, MD, Yale University School of Medicine

JOSEPH KISS, Associate Professor, MD, Georgetown University School of Medicine

RUSSELL KOLARIK, Instructor, MD, Medical College of Ohio

MARY KORYTKOWSKI, Associate Professor, MD, University of North Carolina School of Medicine

CURTIS KOST, Assistant Professor, PhD, Vanderbilt University School of Medicine

KEVIN KRAEMER, Assistant Professor, MD, University of California

JOHN KREIT, Assistant Professor, MD, Duke University School of Medicine

FRANK KROBOTH, Professor, MD, SUNY

SHIMON KUSNE, Associate Professor, MD, University of Bologna

STEVEN LASKY, Assistant Professor, MD, University of Guadalajara

JENIFER LEE, Assistant Professor, MD, Boston University School of Medicine

JOON LEE, Assistant Professor, MD, Duke University School of Medicine

ARTHUR LEVINE, Professor, MD, Chicago Medical School

YUNYOU LI, Research Assistant Professor, MD, PhD, Henan Medical University

BRUCE LING, Assistant Professor, MD, MPH, University of Michigan Medical School

JOSEPH LIPINSKI, Assistant Professor, MD, University of Pennsylvania School of Medicine

CHAU-CHING LIU, Assistant Professor, MD, PhD, National Taiwan University College of Medicine
ALDO LONDINO, Associate Professor, MD, Temple University School of Medicine

BARRY LONDON, Assistant Professor, MD, PhD, Albert Einstein College of Medicine

G. SCOTT LONG, Assistant Professor, MD, PhD, University of Pittsburgh School of Medicine

HENRY LOWE, Associate Professor, MBBCh, University College Medical School

GUY MACGOWAN, Assistant Professor, MBBCh, Royal College of Surgeons

DAVID MACPHERSON, Associate Professor, MD, Northwestern University Medical School

DUSHAN MAJKIC, Assistant Professor, MD, New York Medical College

SUSAN MANZI, Assistant Professor, MD, University of Pittsburgh School of Medicine

AIMEE MARMOL, Assistant Professor, MD, Temple University School of Medicine

GARY MARSHALL, Associate Professor, PhD, University of Texas School of Medicine

JOHN MARTIN, Assistant Professor, MD, University of Virginia School of Medicine

JOHN MATHAI, Research Assistant Professor, PhD, University of Poona

MICHIELE MATTHEWS, Visiting Assistant Professor, DO, Philadelphia College of Osteopathic Medicine

JERRY MCCANDLEY, Associate Professor, MD, Dartmouth Medical School

ROBERT MCDONALD, Professor, MD, Loyola University of Chicago Stritch School of Medicine

MARY MCELHIS, Assistant Professor, MD, Vanderbilt University

ELIZABETH McGUIRE, Assistant Professor, MD, Jefferson Medical College

DEBORAH MCMAHON, Associate Professor, MD, Temple University School of Medicine

DENNIS MCNAMARA, Assistant Professor, MD, Harvard Medical School

MELISSA MCNEIL, Associate Professor, MD, University of Pittsburgh School of Medicine

CHARLES MCTIERMAN, Research Assistant Professor, PhD, Case Western Reserve University

THOMAS MEDSGER, Professor, MD, University of Pennsylvania School of Medicine

ARNOLD MEISLER, Associate Professor, MD, New York University School of Medicine

JOHN MELLORS, Professor, MD, Dartmouth Medical School

GEOFFREY MOORE, Assistant Professor, MD, University of Texas Southwestern

PENELLOPE MOREL, Associate Professor, MD, PhD, University of Southampton Medical School

ERIC MORTENSEN, Instructor, MD, Medical College of Pennsylvania

ROBERT MUDER, Associate Professor, MD, University of Pittsburgh School of Medicine

JOSEPHIA MUINDI, Assistant Professor, MD, PhD, University of Dar-es-Salaam

MATTHEW MULDOON, Associate Professor, MD, University of Illinois College of Medicine

SRINIVAS MURALI, Associate Professor, MD, University of Madras

CARLENE MUTO, Assistant Professor, MD, Temple University School of Medicine

DELYNNE MYERS, Associate Professor, MD, Tulane University School of Medicine

CAROL MYRON, Assistant Professor, MD, University of Pennsylvania

DAVID NACE, Assistant Professor, MD, Temple University

ANNE NEWMAN, Associate Professor, MD, MPH, University of Pittsburgh School of Medicine

ROBERT O’DOHERTY, Assistant Professor, PhD, Vanderbilt University School of Medicine

CHESTER ODDIS, Associate Professor, MD, Pennsylvania State University College of Medicine

THOMAS PAINTER, Professor, MD, University of Texas Southwestern Medical School

PAUL PALEVSKY, Associate Professor, MD, Northwestern University Medical School

YINGTIAN PAN, Assistant Professor, PhD, National Laser Technology Laboratories

DAVID PASQUALE, Assistant Professor, DO, Ohio University College of Osteopathic Medicine

MICHAEL PEZZONE, Instructor, MD, PhD, University of Pittsburgh School of Medicine

JOSEPH PILEWSKI, Assistant Professor, MD, University of Rochester School of Medicine
ROSALYN PINKUS, Associate Professor, PhD, SUNY

BETH PIRAINO, Professor, MD, Medical College of Pennsylvania

JUDITH PLOWMAN, Assistant Professor, MD, University of Pittsburgh School of Medicine

EDWARD POST, Assistant Professor, MD, PhD, Medical College of Virginia

MORDECHAI RABINOVITZ, Associate Professor, MD, Sackler School of Medicine

PHILIP RABINOWITZ, Visiting Assistant Professor, MD, Albany Medical College

MARGARET RAGNI, Professor, MD, University of Pittsburgh School of Medicine

RAMESHKUMAR RAMANATHAN, Assistant Professor, MBBS, Karnatak Medical College

R. HARSHA RAO, Associate Professor, MD, Armed Forces Medical College

MICHELLE RATHGEB, Assistant Professor, MD, University of Pennsylvania School of Medicine

RAYMOND RAULT, Professor, MD, St. Mary's Hospital Medical School

P. SUDHAKAR REDDY, Professor, MD, Gandhi Medical College

ROBERT REDNER, Assistant Professor, MD, Harvard Medical School

PAMELA REED, Assistant Professor, MD, University of Cincinnati College of Medicine

MIGUEL REGUEIRO, Assistant Professor, MD, Hahnemann University

STEVEN REIS, Assistant Professor, MD, Harvard Medical School

NEIL RESNICK, Visiting Professor, MD, Stanford University Medical School

SHARON RIDDLER, Assistant Professor, MD, Medical College of Wisconsin

WILLIAM RIDGWAY, Assistant Professor, MD, University of Rochester School of Medicine

LAURA RITTMeyer, Instructor, MS, University of Pittsburgh

MARK ROBERTS, Associate Professor, MD, Tufts University School of Medicine

MICHELLE ROBERTS, Associate Professor, MD, Duke University School of Medicine

MARA RODOsky, Assistant Professor, MD, Columbia University College of Phys and Surgeons

ERIC RODRIGUEZ, Associate Professor, MD, George Washington University School of Medicine & Health Sciences

ROBERT ROGERS, Professor, MD, University of Pennsylvania School of Medicine

BRUCE ROLLMAN, Assistant Professor, MD, MPH, Jefferson Medical College

MARJORIE ROMKES, Visiting Associate Professor, PhD, Texas A&M University

WARREN ROSENBLUM, Assistant Professor, MD, Albert Einstein College of Medicine

MICHELLE ROSSI, Assistant Professor, MD, Mount Sinai School of Medicine

WENDY RUBINSTEIN, Assistant Professor, MD, PhD, Mount Sinai School of Medicine

MARK SANDERS, Professor, MD, SUNY

ROBERT SCHOEN, Assistant Professor, MD, Columbia University College of Phys & Surgeons

DAVID SCHWARTZMAN, Assistant Professor, MD, New York University

FRANK SCIURBA, Associate Professor, MD, University of Chicago Pritzker School of Medicine

JOHN SCOTT, Associate Professor, MD, University of Pittsburgh School of Medicine

DAVID SEGEL, Associate Professor, MD, Harvard Medical School

AHMAD SHAKIL, Assistant Professor, MBBS, Dow Medical College

JAMES SHAVER, Professor, MD, Hahnemann University School of Medicine

HUBERT SHICK, Visiting Assistant Professor, MD, Jefferson Medical College

VLADIMIR SHUSTERMANN, Research Instructor, MD, PhD, Novosibirsk State Medical Institute

ADAM SLIVKA, Assistant Professor, MD, PhD, Mount Sinai School of Medicine

ANSON SMITH, Assistant Professor, MD, University of California

ELLIOt SMITH, Visiting Assistant Professor, MD, Hahnemann University School of Medicine

THOMAS SMITHERMAN, Professor, MD, University of Alabama School of Medicine

ALI SONEL, Assistant Professor, MD, Hacettepe University

JAMES STAHL, Instructor, MD, McGill Medical School
JENNIFER STEEL, Assistant Professor, PhD, Washington State University

RICHARD STEINMAN, Assistant Professor, MD, PhD, University of Pennsylvania School of Medicine

ALEXANDRE STEWART, Assistant Professor, PhD, University of Chicago

ANDREW STEWART, Professor, MD, Columbia University College of Physicians and Surgeons

JANET STOUT, Research Assistant Professor, PhD, University of Pittsburgh

PATRICK STROLLO, Associate Professor, MD, Uniformed Services University of Health Sciences

GALEN SWITZER, Assistant Professor, PhD, University of Colorado

GARY TABAS, Visiting Associate Professor, MD, University of Pennsylvania

STASA TADIC, Research Instructor, MD, University of Nis

STEVAN TOFOVIC, Assistant Professor, MD, PhD, University of Skopje School of Medicine

ADELE TOWERS, Assistant Professor, MD, University of Connecticut School of Medicine

PHILIP TROEN, Professor, MD, Harvard Medical School

DONALD TRUMP, Professor, MD, Johns Hopkins University School of Medicine

ASHER TULSKY, Assistant Professor, MD, Chicago Medical School

ERNEST URBAN, Professor, MD, University of Adelaide

ANTHONY VAGNUCCI, Professor, MD, Genoa University School of Medicine

HUGO VARGAS, Assistant Professor, MD, Hahnemann University School of Medicine

RUPANGI VASAVADA, Research Assistant Professor, PhD, University of Pennsylvania

EMANUEL VERGIS, Assistant Professor, MD, University of Pittsburgh School of Medicine

FLORDELIZA VILLANUEVA, Assistant Professor, MD, Boston University School of Medicine

VICTOR VOGEL, Professor, MD, Temple University Medical School

DANA VUCINICH, Assistant Professor, MD, Baylor College of Medicine

SUBHASH VYAS, Assistant Professor, PhD, University of Houston

MICHAEL WAGNER, Assistant Professor, MD, PhD, University of Pittsburgh School of Medicine

ARNOLD WALD, Professor, MD, SUNY

JOEL WARSHAW, Assistant Professor, MD, University of Pittsburgh School of Medicine

MARY CHESTER WASKO, Assistant Professor, MD, University of North Carolina School of Medicine

DEBRA WEINER, Assistant Professor, MD, University of Missouri

RAUL WEISS, Assistant Professor, MD, University of Tucuman Medical School

ORA WEISZ, Assistant Professor, PhD, Johns Hopkins Medical School

DAVID WHITCOMB, Associate Professor, MD, PhD, Ohio State University College of Medicine

SCOTT WHITE, Assistant Professor, MD, Pennsylvania State University College of Medicine

JEFFREY WHITTLE, Associate Professor, MD, Medical College of Wisconsin

KATHERINE WILLIAMS, Visiting Instructor, MD, MPH, Northeastern Ohio University College of Medicine

MICHAEL WONG, Assistant Professor, MD, PhD, University of Toronto

PAUL WOOLLEY, Visiting Professor, MD, University of Michigan Medical School

TIMOTHY WRIGHT, Associate Professor, MD, Johns Hopkins University School of Medicine

G. ALAN YEASTED, Assistant Professor, MD, University of Pittsburgh School of Medicine

VICTOR YU, Professor, MD, University of Minnesota Medical School

HAFFANE ZAROUR, Research Assistant Professor, MD, Medical University of Marseille

MARK ZEIDEL, Professor, MD, Columbia University College of Physicians and Surgeons

GALAL ZIADY, Associate Professor, MD, PhD, Ain Shams University

NEAL ZWEIG, Assistant Professor, MD, University of Pittsburgh School of Medicine

DEPARTMENT OF MOLECULAR GENETICS & BIOCHEMISTRY

SAVERIO CAPUANO, Research Assistant Professor, DVM, Ohio State University

MICHAEL CASCIO, Assistant Professor, PhD, Columbia University College of Physicians and Surgeons
PAWEL CIBOROWSKI, *Research Instructor*, PhD, National Institute of Hygiene

KELLY COLE, *Research Instructor*, PhD, University of Pennsylvania

MICHAEL CORB, *Professor*, PhD, Louisiana State University

NEAL DELUCA, *Professor*, PhD, Pennsylvania State University

PATRICIA DOWLING, *Research Associate Professor*, PhD, University of Pittsburgh

OLIVERA FINN, *Professor*, PhD, Stanford University

JOANNE FLYNN, *Assistant Professor*, PhD, University of California

JOSEPH GLORIOSO, *Professor*, PhD, Louisiana State University

WILLIAM GOINS, *Research Assistant Professor*, PhD, University of Iowa

SALEEM KHAN, *Professor*, PhD, India Institute of Science

BO LIU, *Assistant Professor*, PhD, University of Iowa

CYNTILIA LUISI-DELUCA, *Research Assistant Professor*, PhD, Pennsylvania State University

BRUCE MCCLANE, *Professor*, PhD, Pennsylvania State University

TIMOTHY MIETZNER, *Associate Professor*, PhD, Oregon Health Sciences University

CHRISTINE MILCAREK, *Professor*, PhD, Johns Hopkins University

RONALD MONTELARO, *Professor*, PhD, University of Wisconsin

SIDNEY MORRIS, *Professor*, PhD, University of California

KAREN NORMIS, *Associate Professor*, PhD, Wright State University

THOMAS OLOGINO, *Research Assistant Professor*, PhD, Carnegie Mellon University

STEPHEN PHILLIPS, *Associate Professor*, PhD, Pennsylvania State University

BASKARAN RAJASEKARAN, *Assistant Professor*, PhD, Indian Institute of Science

VESNA RAPIC OTIN, *Research Assistant Professor*, PhD, University of Belgrade

PAUL ROBBINS, *Professor*, PhD, University of California

MARTIN SCHMIDT, *Associate Professor*, PhD, University of California

THOMAS SMITHGALL, *Associate Professor*, PhD, University of Pennsylvania School of Medicine

ANITA TRICHEL, *Research Assistant Professor*, DVM, Louisiana State University

XIAO XIAO, *Assistant Professor*, PhD, University of Pittsburgh

JULIUS YOUNGNER, *Distinguished Service Professor*, ScD, University of Michigan

**DEPARTMENT OF NEUROBIOLOGY**

ELIAS AIZENMAN, *Associate Professor*, PhD, Johns Hopkins University

KATHIE EAGLESON, *Research Assistant Professor*, PhD, University of Sydney

ERIC FRANK, *Professor*, PhD, Harvard University

WILLI HALFTER, *Associate Professor*, PhD, Max Planck Institute

JOHN HORN, *Professor*, PhD, University of Miami

ALLEN HUMPHREY, *Associate Professor*, PhD, Duke University

H. RICHARD KOERBER, *Associate Professor*, PhD, West Virginia University

CARL LAGENaur, *Associate Professor*, PhD, University of Washington

CYNTHIA LANCE-JONES, *Associate Professor*, PhD, University of Massachusetts

PETER LAND, *Associate Professor*, PhD, University of Illinois

PAT LEVITT, *Professor*, PhD, University of California

LAURA LILLIEN, *Assistant Professor*, PhD, University of Wisconsin

ZHI-PING MI, *Research Instructor*, PhD, Shanxi Medical College

KAROLY MIRNCS, *Research Assistant Professor*, MD, University of Novi Sad School of Medicine

A. PAULA NICHOLS, *Assistant Professor*, PhD, Medical Research Council

AUREA PIMENTA, *Research Assistant Professor*, PhD, University of Sao Paulo

ALAN SAUL, *Research Assistant Professor*, PhD, Brown University

JOHN SCHUMANN, *Associate Professor*, PhD, Rutgers University

DANIEL SIMONS, *Professor*, PhD, Washington University

PETER STRICK, *Visiting Professor*, PhD, University of Pennsylvania

ZUO-ZHONG WANG, *Assistant Professor*, MD, PhD, Shanghai Secon Military Medical University

JOSEPH YIP, *Associate Professor*, PhD, University of California
DEPARTMENT OF NEUROSURGERY

PHILIP ADELSON, Associate Professor, MD, Columbia University College of Physicians and Surgeons

JEFFREY BALZER, Assistant Professor, PhD, University of Pittsburgh

DAVID BISSONETTE, Assistant Professor, MBA, University of Pittsburgh

MIKULAS CHAVKO, Research Assistant Professor, PhD, Slovak Academy of Science

DONALD CRAMMOND, Assistant Professor, PhD, University of Toronto

CLIFTON DIXON, Associate Professor, PhD, Virginia Commonwealth University

PETER GERSZTEN, Visiting Instructor, MD, MPH, Johns Hopkins University School of Medicine

GLENN GOBBEL, Assistant Professor, DVM, PhD, University of Florida

LINDA GOLDSTEIN, Assistant Professor, PhD, Indiana University

JOHN HERRON, Research Associate Professor, PhD, University of Pittsburgh

MICHAEL HOROWITZ, Visiting Associate Professor, MD, University of Rochester School of Medicine

LARRY JENKINS, Visiting Associate Professor, PhD, Medical College of Virginia

AMIN KASSAM, Assistant Professor, MD, University of Toronto Faculty of Medicine

JOSEPH KING, Assistant Professor, MD, Yale University School of Medicine

DONALD KRIEGER, Associate Professor, PhD, Maharishi International University

ANN MAITZ, Assistant Professor, MS, University of Pittsburgh

WENDY MAYLE, Research Instructor, MA, University of Pittsburgh

JOHN MOOSSY, Associate Professor, MA, Tulane University School of Medicine

NORIMOTO NAKAHARA, Research Instructor, MD, Nagoya University School of Medicine

EDWIN NEMOTO, Research Professor, PhD, Rutgers University

HIDEHO OKADA, Research Assistant Professor, MD, PhD, Nagoya University School of Medicine

RONDA PINDZOLA, Research Assistant Professor, PhD, University of Delaware

IAN POLLACK, Professor, MD, Johns Hopkins University School of Medicine

MICHAEL RUTIGLIANO, Assistant Professor, MD, University of Pittsburgh School of Medicine

DAVID SCHIFF, Assistant Professor, MD, Harvard Medical School

ROBERT SCLABASSI, Professor, MD, PhD, University of Pittsburgh School of Medicine

DAVID SHAFRON, Visiting Instructor, MD, Case Western Reserve University School of Med

MINGUI SUN, Research Associate Professor, PhD, University of Pittsburgh

HAROLD WEISS, Visiting Assistant Professor, MPH, University of Minnesota

HONG YAN, Research Instructor, MD, Shanghai College of Traditional Chinese Medicine

DEPARTMENT OF NEUROLOGY

NICOLAAS BOHNEN, Assistant Professor, MD, PhD, University of Nijmegen

RICHARD BRENNER, Professor, MD, University of Louisville School of Medicine

JUN CHEN, Research Assistant Professor, MD, Shanghai Medical University

PAULA CLEMENS, Assistant Professor, MD, Medical College of Pennsylvania

JOHN DOYLE, Visiting Associate Professor, MD, University of Pittsburgh School of Medicine

BENJAMIN EIDELMAN, Professor, MD, PhD, University of Witwatersrand

DAVID FINK, Professor, MD, Harvard Medical School

KATHY GARDNER, Assistant Professor, MD, University of Utah

JAMES GEBEL, Assistant Professor, MD, University of Cincinnati College of Medicine

MICHAEL GIULIANI, Professor, MD, Ohio State University College of Medicine

STEVEN GOLDSTEIN, Visiting Associate Professor, MD, Pennsylvania State University College of Medicine

JAMES GOSS, Research Assistant Professor, PhD, University of Southern California

STEVEN GRAHAM, Associate Professor, MD, PhD, University of Texas Medical School

TERESA HASTINGS, Assistant Professor, PhD, Medical College of Ohio
RICKY HENDRICKSON, Assistant Professor, PhD, University of Arizona

ROCK HEYMAN, Assistant Professor, MD, Ohio State University School of Medicine

PATRICIA JOZEFZCYK, Associate Professor, MD, University of Pittsburgh School of Medicine

DANIEL KAUFER, Assistant Professor, MD, University of Wisconsin Medical School

DAVID LACOMIS, Associate Professor, MD, Pennsylvania State University College of Medicine

FRANK LIEBERMAN, Visiting Associate Professor, MD, University of Chicago

YONG-JIAN LIU, Assistant Professor, MD, Nanjing Medical University

OSCAR LOPEZ, Associate Professor, MD, National University of La Plata School of Medicine

MARINA MATA, Professor, MD, University of Barcelona Medical School

GALEN MITCHELL, Assistant Professor, MD, University of Kansas Medical School

PATRICIA MOORE, Visiting Professor, MD, Medical College of Pennsylvania

ROBERT MOORE, Professor, MD, PhD, University of Chicago Pritzker School of Medicine

ERIC OGREN, Assistant Professor, MD, University of Nebraska Medical Center

MICHAEL PAINTER, Professor, MD, University of Michigan Medical School

RUTH PEREZ, Visiting Assistant Professor, PhD, University of Pittsburgh School of Medicine

LISA ROESKE-ANDERSON, Visiting Assistant Professor, MD, University of Arizona School of Medicine

MARK SCHEUER, Associate Professor, MD, University of Chicago Pritzker School of Medicine

AMANDA SMITH, Research Assistant Professor, PhD, Emory University

MICHAEL SOSO, Assistant Professor, MD, PhD, Stanford University School of Medicine

LAWRENCE WECHSLER, Professor, MD, University of Pennsylvania Medical School

HUEIZHI WU, Research Assistant Professor, MD, PhD, Shanghai Medical University

MICHAEL ZIGMOND, Professor, PhD, University of Chicago

DEPARTMENT OF OBSTETRICS, GYNECOLOGY, AND REPRODUCTIVE SCIENCES

JUDITH ALBERT, Assistant Professor, MD, University of Cincinnati College of Medicine

JUDITH BALK, Research Assistant Professor, MD, University of Pennsylvania School of Medicine

SARAH BERGA, Associate Professor, MD, University of Virginia School of Medicine

CHARLES BLACK, Assistant Professor, PhD, University of Newcastle

JANE BUTLER, Assistant Professor, MPH, University of California

STANLEY CARITIS, Professor, MD, West Virginia University School of Medicine

JOHN COMERCI, Assistant Professor, MD, Temple University School of Medicine

KIRK CONRAD, Associate Professor, MD, Dartmouth Medical School

MITCHELL CREININ, Associate Professor, MD, Northwestern University Medical School

WILLIAM CROMBLEHOLME, Professor, MD, SUNY

ASHI DAFTARY, Assistant Professor, MD, Washington University Medical School

EMILY DEFERRARI, Assistant Professor, BA, University of Pittsburgh

JULIE DELOIA, Assistant Professor, PhD, Johns Hopkins University

DEBORAH DRAPER, Assistant Professor, PhD, University of California

ROBERT EDWARDS, Assistant Professor, MD, University of Pittsburgh School of Medicine

ROBIN GANDLEY, Assistant Professor, PhD, University of Maryland

ROBERT GEDEKOH, Visiting Assistant Professor, MD, University of Pittsburgh School of Medicine

GABRIELLA GOSMAN, Visiting Instructor, MD, Yale University School of Medicine

RICHARD GUIDO, Assistant Professor, MD, University of Rochester School of Medicine & Dentistry

ROBERT HEINE, Assistant Professor, MD, Texas Tech University Health Sciences Center

LYNDON HILL, Professor, MD, New York Medical College

SHARON HILLIER, Professor, PhD, Washington State University
WILLIAM HOGGE, Professor, MD, University of Virginia School of Medicine
CARL HUBEL, Research Assistant Professor, PhD, University of Vermont College of Medicine
ROBERT KAMINSKI, Visiting Associate Professor, MD, University of Pittsburgh School of Medicine
DAVID KAUFFMAN, Assistant Professor, MD, Medical University of South Carolina
PAMELA KRIDGEN, Visiting Assistant Professor, MD, University of Pittsburgh School of Medicine
MARIJANE KROHN, Associate Professor, PhD, University of Washington
CAROLYN KUBIK, Associate Professor, MD, George Washington University School of Medicine
DANIEL LANDERS, Associate Professor, MD, University of California
JEAN LATIMER, Assistant Professor, PhD, SUNY
ANNA LOKSHIN, Research Assistant Professor, PhD, University of Leningrad
DONNA LOWRY, Assistant Professor, MD, Wayne State School of Medicine
SHARMILA MAHIJA, Visiting Assistant Professor, MD, University of Alabama
JERRY MARTIN, Assistant Professor, MD, University of Texas Southwestern Medical School
KATHLEEN MCINTYRE-SELTMAN, Associate Professor, MD, Medical College of Pennsylvania
PAMELA MOALLI, Visiting Instructor, MD, PhD, Northwestern University
JACQUELINE NOVAK, Research Assistant Professor, PhD, University of Cincinnati College of Medicine
MARY ANN PORTMAN, Associate Professor, MD, Temple University
HELEN PYMAR, Visiting Instructor, MD, Queen’s University
ROSARIO RAJAKUMAR, Research Assistant Professor, PhD, Madurai Kamaraj University
PHILLIP RAUK, Assistant Professor, MD, Washington University School of Medicine
JAMES ROBERTS, Professor, MD, University of Michigan Med School
DEBRA RUBINSTEIN, Visiting Assistant Professor, MD, University of Pittsburgh School of Medicine
MARVIN RULIN, Professor, MD, University of Health Sciences/Chicago Medical School
JILL SCHWARTZ, Assistant Professor, MD, Mount Sinai School of Medicine
CYNTHIA SIMS, Associate Professor, MD, West Virginia University
CYNTHIA STALLINGS, Assistant Professor, MSN, University of Pittsburgh
ROBERT STERN, Visiting Associate Professor, MD, University of Pittsburgh School of Medicine
RICHARD SWEET, Professor, MD, University Michigan Medical School
LARYNDA THOEN, Assistant Professor, MD, Northwestern University Medical School
MARGARET WAT-T-MORSE, Assistant Professor, MD, University of Illinois College of Medicine
HAROLD WIESENFIELD, Assistant Professor, MD, CM McGill University
DOUGLAS WOELKERS, Visiting Instructor, MD, Stanford University School of Medicine
HALINA ZYCZYNISKI, Associate Professor, MD, Albany Medical College

DEPARTMENT OF OPHTHALMOLOGY
TRINITA ARAULLO-CRUZ, Assistant Professor, ScD, University of Pittsburgh
RANDALL BEATTY, Assistant Professor, MD, Albany Medical College
CYNTHIA BRISSETTE, Visiting Instructor, PhD, Duke University
DEEPINDER DHALIWAL, Assistant Professor, MD, Northwestern University Medical School
ANDREW ELLER, Associate Professor, MD, Hahnemann University School of Medicine
GARY FOULKS, Professor, MD, Columbia College of Physicians and Surgeons
THOMAS FRIBERG, Professor, MD, University of Minnesota Medical School
JAMES FUNDERBURGH, Visiting Associate Professor, PhD, University of Wisconsin
JEROLD GORDON, Professor, MD, Harvard Medical School
MICHAEL GORIN, Associate Professor, MD, PhD, University of Pennsylvania School of Medicine
ROBERT HENDRICKS, Professor, PhD, University of Illinois
VICENTE JOCS ON, Associate Professor, MD, University of the Philippines

PAUL KINCHINGTON, Associate Professor, PhD, University of Leeds

JES KLARLUND, Visiting Associate Professor, PhD, University of Copenhagen

REGIS KOWALSKI, Assistant Professor, MS, University of Pittsburgh

LUIS PLESS, Assistant Professor, MD, Emory University School of Medicine

NIRMALA SUNDARRAJ, Associate Professor, PhD, Indian Institute of Science

EDWARD TRUDO, Visiting Assistant Professor, MD, University of Pittsburgh School of Medicine

EVAN WAXMAN, Visiting Assistant Professor, MD, PhD, Mount Sinai School of Medicine

DEPARTMENT OF ORTHOPAEDIC SURGERY

CRAIG BENNETT, Assistant Professor, MD, University of California

CONSTANCE CHU, Assistant Professor, MD, Harvard Medical School

PETER COHEN, Assistant Professor, MD, University of Pittsburgh School of Medicine

STEPHEN CONTI, Assistant Professor, MD, New Jersey Medical School

LAWRENCE CROSETT, Assistant Professor, MD, Temple University School of Medicine

RICHARD DEBSKI, Assistant Professor, PhD, University of Pittsburgh

VINCENT DEENEY, Assistant Professor, MD, Jefferson Medical College

WILLIAM DONALDS ON, Associate Professor, MD, Rush Medical College

CAROLYN ENGLE, Assistant Professor, MD, West Virginia School of Medicine

KENNETH FISCHER, Assistant Professor, PhD, Stanford University

ROSS FOX, Visiting Instructor, MD, University of Rochester

FREDDIE FU, Professor, MD, University of Pittsburgh School of Medicine

LARS GILBERTSON, Assistant Professor, PhD, University of Iowa

ROBERT GOITZ, Assistant Professor, MD, Johns Hopkins University School of Medicine

SAMUEL GRANOWITZ, Visiting Assistant Professor, MD, University of Pittsburgh School of Medicine

GARY GRUEN, Associate Professor, MD, Temple University School of Medicine

CHRISTOPHER HARNER, Professor, MD, University of Michigan Medical School

CARL HASSELMAN, Visiting Instructor, MD, Duke University School of Medicine

JOHNNY HUARD, Assistant Professor, PhD, Laval University

TIMOTHY JANEWAY, Assistant Professor, MD, University of Michigan

DAVID JENKINSON, Assistant Professor, DO, University of New England Coll of Osteo Med

JAMES KANG, Assistant Professor, MD, University of Oklahoma College of Medicine

RICHARD KANG, Visiting Instructor, MD, Yale University School of Medicine

JOHN KIRCHNER, Assistant Professor, MD, Hahennann University

PATRICK MCMAHON, Visiting Assistant Professor, MD, Temple University School of Medicine

STEPHEN MENDELSON, Assistant Professor, MD, University of Chicago

NICHOLAS MIDIS, Visiting Instructor, MD, Medical College of Virginia

MOREY MORELAND, Professor, MD, University of Rochester School of Medicine & Dentistry

CHRISTOPHER NIYIBIZI, Assistant Professor, PhD, McGill University

ELIZABETH PICKVANCE, Assistant Professor, MD, University of Texas

ANTON PLAKSEYCHUK, Instructor, MD, PhD, Kazan Medical University

MICHAEL PRAYSON, Assistant Professor, MD, Northeastern Ohio University College of Medicine

MARK RODOSKY, Assistant Professor, MD, Mount Sinai School of Medicine

RAJ SINHA, Assistant Professor, MD, PhD, Jefferson Medical College

DEAN SOTEREANOS, Associate Professor, MD, Hahnemann University School of Medicine

DAVID STONE, Assistant Professor, MD, UMD, NJ
MATTHEW TOMAINO, Assistant Professor, MD, University of Rochester

CHRIS VASILAKIS, Instructor, MD, West Virginia University School of Medicine

MOLLY VOGT, Associate Professor, PhD, University of Pittsburgh School of Medicine

HUICONG WANG, Assistant Professor, PhD, University of Cincinnati

W. TIMOTHY WARD, Associate Professor, MD, University of Pittsburgh School of Medicine

SAVIO WOO, Professor, PhD, University of Washington

KENNETH YAW, Associate Professor, MD, University of Chicago Pritzker School of Medicine

BRUCE ZIRAN, Assistant Professor, MD, Case Western Reserve University School of Medicine

DEPARTMENT OF OTOLARYNGOLOGY

CUNEYT ALPER, Assistant Professor, MD, Hacettepe University

E H Ellis Arjmand, Visiting Assistant Professor, MD, PhD, Northwestern University Medical School

CAREY BALABAN, Professor, PhD, University of Chicago

CHARLES BLUESTONE, Professor, MD, University of Pittsburgh School of Medicine

ERDEM CANTEKIN, Professor, PhD, Carnegie Mellon University

RICARDO CARRAU, Associate Professor, MD, University of Puerto Rico Medical School

MARGARETHA CASSELBRANT, Professor, MD, PhD, University of Lund

JOSEPH DOHAR, Assistant Professor, MD, Ohio State University

WILLIAM DOYLE, Professor, PhD, University of Pittsburgh

DAVID EIBLING, Professor, MD, Ohio State University College of Medicine

BERRYLIN FERGUSON, Associate Professor, MD, Duke University School of Medicine

JOSEPH FURMAN, Professor, MD, PhD, University of Pennsylvania School of Medicine

GRANT GILLMAN, Assistant Professor, MD, University of Manitoba

CHRISTINE GOURIN, Visiting Instructor, MD, State University of New York

JENNIFER GRANDIS, Associate Professor, MD, University of Pittsburgh School of Medicine

ANIL GUNGOR, Visiting Instructor, MD, Hacettepe University Faculty of Medicine

PATRICIA HEBDA, Research Associate Professor, PhD, Ohio State University

BARRY HIRSCH, Professor, MD, University of Pennsylvania School of Medicine

DAVID HUGHES, Instructor of Clinical Medicine, MD, Medical College of Virginia

JONAS JOHNSON, Professor, MD, SUNY

DONALD KAMERER, Professor, MD, Temple University School of Medicine

MINOO KARANJIA, Instructor of Clinical Medicine, MD, Topiwalla Medical School

HA-SHENG LI, Research Assistant Professor, MD, PhD, Henan Medical University

LORI LOMBAR D, Assistant Professor, PhD, Pennsylvania State University

ELLEN MANDEL, Associate Professor, MD, University of Pittsburgh School of Medicine

THOMAS MURRY, Professor, PhD, University of Florida

EUGENE MYERS, Professor, MD, Temple University School of Medicine

MARK REDFERN, Associate Professor, PhD, University of Michigan

CLARK ROSEN, Assistant Professor, MD, Rush University Medical College

ISAMU SANDO, Professor, MD, PhD, Nihon University School of Medicine

BARRY SCHAITKIN, Associate Professor, MD, Pennsylvania State University College of Medicine

ROBERT SCHOR, Associate Professor, PhD, Rockefeller University

CHARLES SCUDDER, Assistant Professor, PhD, University of Washington

CARL SNYDERMAN, Associate Professor, MD, University of Chicago Pritzker School of Medicine

JOHN SONG, Visiting Instructor, MD, New York University School of Medicine

J. DOUGLAS SWARTS, Assistant Professor, PhD, University of Pittsburgh

SCOTT THOMPSON, Assistant Professor, MD, Hahnemann University School of Medicine
B. JOSEPH TOUMA, Visiting Instructor, MD, West Virginia University

BILLY YATES, Associate Professor, PhD, University of Florida

ROBERT YELLON, Assistant Professor, MD, SUNY

DEPARTMENT OF PATHOLOGY

CRISTIAN ACHIM, Assistant Professor, MD, PhD, School of Medicine

RAJNIKANT AMIN, Associate Professor, MBBS, Baroda Medical College

ANTONIO AMORTEGUI, Professor, MD, University of Colombia

ANDREW AMOSCATO, Instructor, PhD, University of Texas Health Science Center

PIERETTE APPASAMY, Assistant Professor, PhD, Jefferson Medical College

DAVID BAHLER, Assistant Professor, MD, PhD, University of Rochester

EVAN BAKER, Assistant Professor, MD, University of Pittsburgh School of Medicine

ELVIS BARNES, Professor, MD, University of Arkansas College of Medicine

PER BASSE, Assistant Professor, MD, PhD, University of Aarhus

SHELDON BASTACKY, Assistant Professor, MD, Case Western Reserve University

MICHAEL BECICH, Associate Professor, MD, PhD, Northwestern University Medical School

DOROTHEA BECKER, Associate Professor, PhD, University of Berlin

GARY BLANK, Associate Professor, PhD, Syracuse University

ROBERT BOWSER, Assistant Professor, PhD, Yale University

WILLIAM CHAMBERS, Associate Professor, PhD, Auburn University

SHIYUAN CHENG, Assistant Professor, PhD, Ohio State University

CHARLEEN CHU, Assistant Professor, MD, PhD, Duke University

LYDIA CONTIS, Associate Professor, MD, University of Athens

CATHERINE CRAVEN, Visiting Associate Professor, MD, University of Utah

PAULA DAVIS, Instructor, MA, University of Pittsburgh

KAREN DEAL, Visiting Instructor, MD, PhD, Vanderbilt University School of Medicine

ALBERT DELEO, Associate Professor, PhD, Columbia University

ANTHONY DEMETRIS, Professor, MD, University of Pittsburgh School of Medicine

RAJIV DHIR, Research Assistant Professor, MBBS, All India Institute of Medical Sciences

PAUL DICKMAN, Associate Professor, MD, Pennsylvania State University College of Medicine

JEANNETTE DUNN, Assistant Professor, MD, Jefferson Medical College

RENE DUQUESNOY, Professor, PhD, University of Tennessee

ELAINE ELDER, Assistant Professor, ScD, University of Pittsburgh

HILARY EVANS, Assistant Professor, MD, Baylor University College of Medicine

GEORGE FABER, Instructor, MD, West Virginia University School of Medicine

WILLIAM FARTHING, Assistant Professor, MD, Medical College of Virginia

SYDNEY FINKELSTEIN, Associate Professor, MD, McGill University School of Medicine

FRED GILKEY, Assistant Professor, MD, University of Michigan

LESLIE GOLSTEIN, Research Instructor, PhD, New York University School of Medicine

ELIESER GORELIK, Professor, MD, PhD, Minsk State Medical Institute

REMIGIO GREGORIO, Assistant Professor, MD, Far Eastern University School of Medicine

DILIPKUMAR GUPTA, Visiting Instructor, MD, B.J. Medical College

RONALD HAMILTON, Assistant Professor, MD, University of Nebraska

JAMES HARRISON, Associate Professor, MD, PhD, Medical University of South Carolina

SUSAN HASEGAWA, Assistant Professor, MD, PhD, Emory University School of Medicine

RONALD JAFFE, Professor, MBBCh, University of Witwatersrand

FRANK JENKINS, Associate Professor, PhD, Pennsylvania State University School of Medicine

JIE-GEN JIANG, Research Assistant Professor, MD, PhD, First Military Medical University

MIROSLAWA JONES, Associate Professor, MD, The Medical Academy of Lodz
JEANNE JORDAN, Associate Professor, PhD, University of Pittsburgh
ANISA KANBOUR, Professor, MD, Baghdad Medical College
AMAL KANBOUR-SHAKIR, Professor, MD, PhD, Baghdad Medical College
JEFFREY KANT, Professor, MD, PhD, University of Chicago
SANDRA KAPLAN, Professor, MD, Boston University School of Medicine
SIKANDAR KATYAL, Associate Professor, PhD, University of Delhi
ROBERT KELLY, Associate Professor, PhD, University of London
SUKAMAL KHASNABIS, Assistant Professor, MBBS, Calcutta University National Medical School
BERNARD KLIONSKY, Professor, MD, Hahnemann University School of Medicine
DIANE KRILL, Research Assistant Professor, PhD, Case Western Reserve University
HEINZ KUNZ, Professor, PhD, University of Pittsburgh
ROBERT LEE, Professor, MD, University of Pittsburgh School of Medicine
MENG-FENG LI, Assistant Professor, MD, PhD, Sun Yat-Sen University of Medical Sciences
YOUHUA LIU, Visiting Associate Professor, PhD, Peking Union Medical College
ILEANA LOPEZ-PLAZA, Assistant Professor, MD, Universidad Central del Caribe
JIANHUA LYO, Research Assistant Professor, MD, PhD, Guangzhou Medical Inst
TREVOR MACPHERSON, Professor, MD, University of Cape Town
WENDY MARS, Research Assistant Professor, PhD, University of Texas
A. JULIO MARTINEZ, Professor, MD, University of Havana
KENNETH MCCARTY, Professor, MD, PhD, Duke University School of Medicine
MONA MELHEM, Associate Professor, MD, Cairo University School of Medicine
GEORGE MICHALOPOULOS, Professor, MD, PhD, Athens University Medical School
FAROOQ MINHAS, Assistant Professor, MBBS, Punjab University
MICHAEL NALESNIK, Associate Professor, MD, UMD, NJ Robert Wood Johnson Medical School
MANJU NATH, Assistant Professor, MD, University of Mysore
GREGORY NAUS, Associate Professor, MD, Cornell University Medical College
LAWRENCE NICHOLS, Assistant Professor, MD, University of Wisconsin Medical School
THERESA NIMICK, Professor, PhD, Columbia University
N. PAUL OHORI, Assistant Professor, MD, Medical College of Virginia
TIM OURY, Assistant Professor, MD, PhD, Duke University School of Medicine
ALKA PALEKAR, Associate Professor, MD, Grant Medical College
MARIA PARIZHSKAYA, Assistant Professor, MD, Mechnikov’s Academy of Medicine
A. WILLIAM PACASULLE, Associate Professor, ScD, University of Pittsburgh
SURESHCHANDRA PATEL, Assistant Professor, MBBS, South Gujarat University
ROBERT PEEL, Associate Professor, MD, University of Pittsburgh School of Medicine
LINA PERRY, Assistant Professor, MD, Northeastern Ohio University College of Medicine
BRUCE RABIN, Professor, MD, PhD, SUNY
HANNA RABINOWICH, Assistant Professor, PhD, Weizman Institute of Science
PARMEET RANDHAWA, Associate Professor, MD, All India Institute of Medicine
KALIPATNAPU RAO, Professor, PhD, Indian Agricultural Research Institute
UMA RAO, Associate Professor, MBBS, Mysore University
HOWARD REIBBORD, Associate Professor, MD, University of Pittsburgh School of Medicine
CHARLES RINALDO, Professor, PhD, University of Utah
ANNA ROMAN-KOLLER, Assistant Professor, PhD, University of Pittsburgh
RUSSELL SALTER, Associate Professor, PhD, Duke University
KAREN SCHOEDEL, Assistant Professor, MD, Medical College of Virginia
DANIEL SHEAHAN, Professor, MBBS, University College
SUSAN SILVER, Assistant Professor, MD, Case Western Reserve University School of Medicine
STEPHEN STROM, Associate Professor, PhD, University of Kansas Medical Center

VLADIMIR SUBBOTIN, Research Assistant Professor, MD, PhD, Novosibirsk Medical School

URVASHI SURTI, Associate Professor, PhD, University of Pittsburgh

STEVEN SWERDLow, Professor, MD, Harvard Medical School

DARRELL TRIULZI, Associate Professor, MD, Albany Medical College

GIULIANA TRUCCO, Associate Professor, MD, University of Turin School of Medicine

MOHAMED VIRJI, Professor, MD, PhD, University of East Africa

NIKOLA VUJANOVIc, Research Associate Professor, MD, PhD, University of Belgrade School of Medicine

ROBERT WADOWSKY, Associate Professor, ScD, University of Pittsburgh

KAREN WECK-TAYLOR, Assistant Professor, MD, Duke University School of Medicine

ALAN WELLS, Professor, MD, DMedSci, Brown University

EWA WIECKOWSKI, Research Instructor, PhD, Warsaw School of Medicine

CLAYTON WILEY, Professor, MD, PhD, University of California School of Medicine

TONG WU, Assistant Professor, MD, PhD, Nan Tong Medical College

XIAO-MING YIN, Assistant Professor, MD, PhD, Shanghai Medical University

SAMUEL YOUSEM, Professor, MD, University of Maryland School of Medicine

ABDOLREZA ZARNEGAR, Associate Professor, PhD, East Tennessee State University

ADRIANA ZEEVI, Professor, PhD, Bar-Ilan University

MICHAEL BALSAN, Associate Professor, MD, Medical College of Wisconsin

REBECCA BAUM, Visiting Instructor, MD, University of Pennsylvania Medical School

CAROLYN BAY, Assistant Professor, MD, University of Rochester School of Med & Dent

DOROTHY BECKER, Professor, MBBCt, University of Witwatersrand Medical School

LEE BEERMAN, Professor, MD, University of Pittsburgh School of Medicine

SERGEI BELENKY, Visiting Assistant Professor, MD, PhD, Moscow Semashko Memorial Medical School

CHARLES BENDER, Associate Professor, MD, Ohio State University College of Medicine

RACHEL BERGER, Visiting Instructor, MD, Columbia College of Physicians & Surgeon

IRA BERGMAN, Professor, MD, University of Chicago Pritzker School of Medicine

MANANDA BHENDE, Associate Professor, MD, University of Bombay

MIRIAM BLOOM, Associate Professor, MD, Northwestern University Med School

DEBRA BOGEN, Assistant Professor, MD, University of Colorado School of Medicine

LESLIE BORSETT-KANTER, Assistant Professor, MD, University of Florida College of Medicine

GERARD BOYLE, Assistant Professor, MD, SUNY

BEVERLY BROZANSKI, Associate Professor, MD, University of Pittsburgh School of Medicine

SYLVIA CHOI, Instructor, MD, Boston University

MAURICE CLIFTON, Assistant Professor, MD, University of Washington

WILLIAM COHEN, Associate Professor, MD, SUNY

SETH COREY, Associate Professor, MD, MPH, Tulane University School of Medicine

PATRICIA CRUMRINE, Professor, MD, Medical College of Pennsylvania

HOLLY DAVIS, Associate Professor, MD, Duke University School of Medicine

ROBERT DEACON, Visiting Instructor, MD, Medical College of Pennsylvania

DEPARTMENT OF PEDIATRICS

VINCENT ALBO, Professor, MD, University of Pittsburgh School of Medicine

SILVA ARSLANIAN, Professor, MD, American University of Beirut

STEPHEN BAGNATO, Associate Professor, EdD, Pennsylvania State University

DHRUV BALKUNDI, Visiting Assistant Professor, MBBS, Osmania Medical College

DEPARTMENT OF PEDIATRICS
JOSE DELROSARIO, Visiting Assistant Professor, MD, Uerm College of Medicine

CARLO DILORENZO, Associate Professor, MD, University of Naples Medical School

JOHANNA DRICKMAN, Assistant Professor, MD, Chicago Medical School

DEMETRIUS ELLIS, Professor, MD, SUNY

JOSE ETTEDGUI, Associate Professor, MD, University of Carabobo

HEIDI FELDMAN, Associate Professor, MD, PhD, University of California San Diego

JONATHAN FINDER, Assistant Professor, MD, Albany Medical College

DAVID FINEGOLD, Professor, MD, University of Pittsburgh School of Medicine

PHILIP FIREMAN, Professor, MD, University of Chicago Pritzker School of Medicine

CATHERINE FOLEY, Associate Professor, MD, University of Pennsylvania School of Medicine

THOMAS FOLEY, Professor, MD, University of Virginia School of Medicine

GILBERT FRIDAY, Professor, MD, Temple University School of Medicine

J. CARLTON GARTNER, Professor, MD, Johns Hopkins University School of Medicine

DEBORAH GENTILE, Visiting Assistant Professor, MD, University of Pittsburgh School of Medicine

CAROL GILMOUR, Assistant Professor, MD, Pennsylvania State University College of Medicine

MELANIE GOLD, Assistant Professor, DO, New York College of Osteopathic Medicine

ALKA GOYAL, Assistant Professor, MD, University of Delhi

RAKESH GOYAL, Assistant Professor, MD, University of Delhi

MICHAEL GREEN, Associate Professor, MD, University of Illinois College of Medicine

DAVID GREENBERG, Associate Professor, MD, Baylor College of Medicine

SRIYA GUNAWARDENA, Assistant Professor, MBBS, University of Xolomvo

SARA HAMEL, Associate Professor, MD, Northwestern University Medical School

CLAUDIA HART, Assistant Professor, MD, Rush Medical College

ROBERT HICKEY, Assistant Professor, MD, Thomas Jefferson University College of Medicine

ALEJANDRO HOBERTMAN, Associate Professor, MD, National University of Buenos Aires

ALEKSEY HOFKOSH, Associate Professor, MD, New York University School of Medicine

DIANNE JACOBETZ, Visiting Instructor, MD, Pennsylvania State University College of Medicine

REGINA JAKACKI, Associate Professor, MD, University of Pennsylvania School of Medicine

PHILLIP KALEIDA, Professor, MD, University of Louisville School of Medicine

PRAPTI KANANI, Assistant Professor, MBBS, Grant Medical College

DENISE KARASIC, Associate Professor, DO, Philadelphia College of Osteopathic Medicine

RAYMOND KARASIC, Associate Professor, MD, Johns Hopkins University School of Medicine

JOHN KASIK, Visiting Associate Professor, MD, University of Iowa

KELLY KELLEHER, Associate Professor, MD, Ohio State University College of Medicine

SEEMA KHAN, Assistant Professor, MBBS, Aga Khan University

JANET KINNANE, Assistant Professor, MD, Harvard Medical School

SAMUEL KOCOSHIS, Professor, MD, Medical College of Wisconsin

GEOFFREY KURLAND, Professor, MD, Stanford University School of Medicine

LIZABETH LANFORD, Assistant Professor, MD, University of California

YUK MING LAW, Assistant Professor, MD, University of California

PATRIZIA LUPPI, Research Assistant Professor, MD, University of Modena

JUDITH MARTIN, Assistant Professor, MD, Mount Sinai School of Medicine

SARA MCINTIRE, Associate Professor, MD, University of California School of Medicine

RAM MENON, Associate Professor, MD, Mavlana Azad Medical College

MARIAN MICHAELS, Associate Professor, MD, University of Pennsylvania School of Medicine
SUSAN MILLER, Assistant Professor, MD, University of Pittsburgh School of Medicine

MICHAEL MORITZ, Assistant Professor, MD, University of Chicago

KIMBERLY MORRIS, Instructor, PhD, Indiana University

DEBORAH MOSS, Assistant Professor, MD, Northwestern University Medical School

TIMOTHY MURPHY, Assistant Professor, MD, University of Washington School of Medicine

PAMELA MURRAY, Associate Professor, MD, Medical College of Pennsylvania

VINODH NARAYANAN, Associate Professor, MD, Louisiana State University School of Medicine

DAVID NASH, Assistant Professor, MD, University of Cincinnati College of Medicine

WILLIAM NECHES, Professor, MD, SUNY

BARBARA NEGRINI, Assistant Professor, MD, University of Pennsylvania School of Medicine

DAVID ORENSTEIN, Professor, MD, Case Western Reserve University School of Medicine

SUSAN ORENSTEIN, Professor, MD, Case Western Reserve University School of Medicine

SALVATORE ORLANDO, Professor, MD, University of Cincinnati College of Medicine

JACK PARADISE, Professor, MD, Johns Hopkins University School of Medicine

SAROJ PARIDA, Assistant Professor, MD, Jawaharlal Inst Postgrad Med Ed and Res

SANG PARK, Professor, MD, Catholic Medical College

DONNA PATTON, Associate Professor, MD, Medical College of Ohio

MARY PIERCE, Assistant Professor, MD, Louisiana State University School of Medicine

MASSIMO PIETROPAOLO, Research Assistant Professor, MD, University of Perugia School of Medicine

RAYMOND PITETTI, Assistant Professor, MD, Temple Medical School

DIANNA PLOOF, Research Instructor, EdD, University of Massachusetts

EDWARD PROCHOWNIK, Professor, MD, PhD, University of Chicago Pritzker School of Medicine

EVELYN REIS, Assistant Professor, MD, Harvard Medical School

A. KIM RITCHIE, Professor, MD, University of Cincinnati Medical College

BRUCE ROSENTHAL, Associate Professor, MD, Temple University School of Medicine

RICHARD RUBIN, Research Instructor, DDS, University of the Pacific School of Dentistry

WILLIAM RUDERT, Research Associate Professor, MD, PhD, University of Pittsburgh School of Medicine

NINA SCHOR, Professor, MD, PhD, Cornell University Medical College

FREDERICK SHERMAN, Associate Professor, MD, Yale University School of Medicine

DAVID SKONER, Associate Professor, MD, Temple University School of Medicine

MARK SPERLING, Professor, MD, University of Melbourne

AURAPIN SUKANICH, Assistant Professor, MD, DrPH, Siriraj Medical School

TAHNIAT SYED, Visiting Instructor, MD, Medical College of Pennsylvania

ANGELA TANGREDI, Assistant Professor, MD, Albert Einstein College of Medicine

JEAN TERSAK, Assistant Professor, MD, University of Pittsburgh School of Medicine

MASSIMO TRUCCO, Professor, MD, University of Torino School of Medicine

ANDREW URBACH, Professor, MD, SUNY

ABHY VATS, Assistant Professor, MD, All India Institute of Medical Sciences

ELLEN WALD, Professor, MD, SUNY

JON WATCHKO, Associate Professor, MD, University of Pittsburgh School of Medicine

STEVEN WEBBER, Associate Professor, MBChB, University of Bristol Medical School

SHELLEY WILLIAMS, Assistant Professor, MD, Bowman Gray School of Medicine

GLENNA WINNIE, Associate Professor, MD, Vanderbilt University School of Medicine

SELMA WITCHEL, Associate Professor, MD, University of Pittsburgh School of Medicine

MICHAEL WOLLMAN, Professor, MD, SUNY
TOBY YANOWITZ, Assistant Professor, MD, Albert Einstein College of Medicine

RANA ZIADEH, Visiting Assistant Professor, MD, Aleppo University School of Medicine

BASIL ZITELLI, Professor, MD, University of Pittsburgh School of Medicine

RICHARD ZOLTUN, Instructor, BS, University of Pittsburgh

TATIANA ZORINA, Research Assistant Professor, MD, PhD, 1-st Pavlov’s Leningrad Med Institute

JAMES ZUBERBUHLER, Professor, MD, University of Pennsylvania School of Medicine

DEPARTMENT OF PHARMACOLOGY

DANIEL ALTSCHULER, Assistant Professor, PhD, University of Buenos Aires

LORI BIRDER, Research Assistant Professor, PhD, University of Pittsburgh School of Medicine

AUGUST BOOTH, Research Assistant Professor, PhD, University of Pittsburgh

WILLIAM DEGROOT, Professor, PhD, University of Pennsylvania

JULIE EISEMAN, Visiting Associate Professor, PhD, Cornell University Medical College

PETER FRIEDMAN, Professor, PhD, State University of New York

WILLIAM FUREY, Visiting Professor, PhD, Rutgers University

CHHANDA GUPTA, Research Associate Professor, PhD, University of Calcutta

PAMELA HERSHBERGER, Research Assistant Professor, PhD, Case Western Reserve University

EDWIN JACKSON, Professor, PhD, University of Texas Southwestern Medical School

CANDACE JOHNSON, Professor, PhD, Ohio State University

ANTHONY KANAI, Research Assistant Professor, PhD, University of Pittsburgh School of Medicine

RADOSVETA KOLDAMOVA, Instructor, MD, PhD, Medical Academy

JOHN LAZO, Professor, PhD, University of Michigan

YONG JUN LEE, Visiting Associate Professor, PhD, University of Illinois

ILIYA LEFTEROV, Instructor, MD, PhD, Medical Academy

EDWIN LEVITAN, Associate Professor, PhD, Brandeis University

SONG LI, Research Assistant Professor, MD, PhD, 4th Military Medical University

TERENCE MCGUIRE, Instructor, PhD, University of Pittsburgh School of Medicine

RUTH MODZELEWSKI, Research Instructor, PhD, University of Pittsburgh

MARK NICHOLS, Assistant Professor, PhD, Yale University

SU-SHU PAN, Visiting Professor, PhD, University of Minnesota

BRUCE PITT, Professor, PhD, Johns Hopkins University

IAN REYNOLDS, Associate Professor, PhD, Johns Hopkins University School of Medicine

GUILLERMO ROMERO, Associate Professor, PhD, University of Virginia

JAMES ROPPOLO, Research Assistant Professor, PhD, University of Michigan

ADRIAN SCULPTOREANU, Research Assistant Professor, PhD, University of Sherbrooke

JILL SIEGFRIED, Professor, PhD, Yale University

GEORGE SOMOGYI, Research Associate Professor, MD, PhD, Semmelweis University

KOICHI TAKIMOTO, Research Assistant Professor, PhD, Osaka University

ANDREAS VOGT, Research Assistant Professor, PhD, University of Hamburg

JACK YALOWICH, Associate Professor, PhD, SUNY

NAOKI YOSHIMURA, Research Associate Professor, MD, PhD, Kyoto University

WEI-DONG YU, Research Assistant Professor, MD, Zhang Shan Medical College

DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION

MICHAEL BONINGER, Associate Professor, MD, Ohio State University College of Medicine

LEONARD CABACUNGAN, Assistant Professor, MD, University of the Philippines College of Medicine

GARY GOLDBERG, Visiting Associate Professor, MD, McMaster University

WENDY HELKOWSKI, Assistant Professor, MD, Jefferson Medical College

JOHN HORTON, Assistant Professor, MD, University of Washington School of Medicine
ANDREW KROUSKOP, Assistant Professor, MD, Temple University Medical School

BETTY LIU, Assistant Professor, MD, New York Medical College

MICHAEL MUNIN, Assistant Professor, MD, Jefferson Medical College

LOUIS PENROD, Assistant Professor, MD, University of Pittsburgh School of Medicine

DEPARTMENT OF PSYCHIATRY

KURT ACKERMAN, Assistant Professor, MD, PhD, University of Rochester

CAROL ANDERSON, Professor, PhD, University of Pittsburgh

SEYMOUR ANTELMAN, Professor, PhD, Illinois Institute of Technology

MARK AUSTIN, Assistant Professor, PhD, Washington State University

ANDREW BAUM, Professor, PhD, SUNY

BORA BAYSAL, Instructor, MD, PhD, Gulhane Medical Academy & Medical School

JAMES BECKER, Professor, PhD, Johns Hopkins University

SUE BEERS, Assistant Professor, PhD, University of Pittsburgh

GENNADY BEREZKIN, Assistant Professor, MD, Leningrad Pediatric Medical Institute

ASHOK BHARUCHA, Visiting Assistant Professor, MD, Pennsylvania State College of Medicine

BORIS BIRMAHER, Associate Professor, MD, Valle College of Medicine

DAVID BRENT, Professor, MD, Jefferson Medical College

CHARLOTTE BROWN, Assistant Professor, PhD, American University

OSCAR BUKSTEIN, Associate Professor, MD, University of Texas Medical School

MERYL BUTTERS, Assistant Professor, PhD, University of Arizona

DANIEL BUYSESE, Associate Professor, MD, University of Michigan Medical School

JUDY CAMERON, Associate Professor, PhD, University of California

JOHN CAMPO, Assistant Professor, MD, University of Pennsylvania School of Medicine

CAMERON CARTER, Associate Professor, MD, University of Western Australia School of Medicine

ELIZABETH CAUFFMAN, Assistant Professor, PhD, Temple University

UMAPATHY CHANNAMALAPPA, Assistant Professor, MBBS, Karnataka University

KADIAMADA CHENGAPPA, Associate Professor, MD, Mysore University

SUJEAN CHOI, Research Assistant Professor, PhD, University of Rochester

SUSANNA CHOI, Assistant Professor, MD, State University of New York

DUNCAN CLARK, Associate Professor, MD, PhD, Harvard Medical School

PATRICIA CLUSS, Assistant Professor, PhD, University of Pittsburgh

JONATHAN COHEN, Professor, MD, PhD, University of Pennsylvania School of Medicine

DAN COLE, Assistant Professor, MD, St. Louis University School of Medicine

CRAIG COLEMAN, Assistant Professor, MD, Pennsylvania State University College of Medicine

RUTH CONDRAY, Assistant Professor, PhD, University of Nevada

JACK CORNELIUS, Associate Professor, MD, MPH, University of Chicago Pritzker School of Medicine

MARIE CORNELIUS, Associate Professor, PhD, University of Pittsburgh

CLEON CORNES, Associate Professor, MD, University of Pittsburgh School of Medicine

JILL CYRANOWSKI, Research Instructor, PhD, Ohio State University

RONALD DAHL, Associate Professor, MD, University of Pittsburgh School of Medicine

DENNIS DALEY, Associate Professor, PhD, California Coast University

NANCY DAY, Professor, PhD, University of California

ROBERT DEALY, Visiting Associate Professor, MD, C.M. McGill University Faculty of Medicine

MICHAEL DEBELIS, Assistant Professor, MD, SUNY

STEVEN DEKOSKY, Professor, MD, University of Florida College of Medicine

BERNARD DEVLIN, Assistant Professor, PhD, Pennsylvania State University

MARY DEW, Professor, PhD, Harvard University
ANDREA DIMARTINI, Assistant Professor, MD, University of Chicago Pritzker School of Medicine
JOHN DONOVAN, Associate Professor, PhD, University of Colorado
ANTONINE DOUEIHI, Assistant Professor, MD, St. Joseph University School of Med and Dent
GEORGE DOUGHERTY, Assistant Professor, MD, Stanford University School of Medicine
WAYNE DREVETS, Visiting Associate Professor, MD, University of Kansas School of Medicine
SANJAY DUBE, Associate Professor, MD, University of Lucknow
LINDA EWING, Assistant Professor, PhD, University of Pittsburgh
HORACIO FABREGA, Professor, MD, Columbia University College of Physicians and Surgeons
ANDREA FAGIOLINI, Research Instructor, MD, University of Pisa Medical School
RUSSELL FARR, Assistant Professor, MD, University of Chicago Pritzker School of Medicine
JOHN FERNSTROM, Professor, PhD, Massachusetts Institute of Technology
MADELYN FERNSTROM, Associate Professor, PhD, Massachusetts Institute of Technology
ULRIKE FESKE, Assistant Professor, PhD, Philipps-University
STEVEN FORMAN, Assistant Professor, MD, PhD, Mount Sinai School of Medicine
ELLEN FRANK, Professor, PhD, University of Pittsburgh
GUIDO FRANK, Visiting Instructor, MD, Ludwig-Maximilians-Universitaet
EDWARD FRIEDMAN, Assistant Professor, MD, University of Pittsburgh School of Medicine
MARY GANGULI, Professor, MD, MPH, University of Madras
ROHAN GANGULI, Professor, MD, University of Madras
SAMUEL GERSHON, Professor, MD, University of Sydney
FRANK GHINASSI, Assistant Professor, PhD, University of Akron
GERALD GOLDSTEIN, Professor, PhD, University of Kansas
GRETCHEK HAAS, Associate Professor, PhD, Wayne State University
MARTHA HALL, Assistant Professor, PhD, University of Pittsburgh
BENJAMIN HANDEN, Associate Professor, PhD, University of Massachusetts
ANTONIO HARDAN, Assistant Professor, MD, Saint Joseph University School of Medicine and Dentistry
JEFFREY HARMAN, Research Assistant Professor, PhD, University of Minnesota
ROGER HASKETT, Professor, MD, University of Melbourne
SHIRLEY HILL, Professor, PhD, Washington University
JONATHAN HIMMELHOCH, Professor, MD, Harvard Medical School
GERARD HOGARTY, Professor, MSW, Catholic University of America
ROBERT HOWLAND, Assistant Professor, MD, University of Minnesota Medical School
ROBERT HUDAK, Assistant Professor, MD, Northeastern Ohio University College of Medicine
MILOS IKONOMOVIC, Research Assistant Professor, MD, University of Nis School of Medicine
N.J. JACOB, Assistant Professor, MBBS, University of Calicut
ROLF JACOB, Professor, MD, Karolinska Institute
PATRICIA JARRETT, Assistant Professor, MD, PhD, University of Pittsburgh School of Medicine
J. RICHARD JENNINGS, Professor, PhD, University of California
KAY JENNINGS, Associate Professor, PhD, University of California
VINEETH JOHN, Assistant Professor, MBBS, Christian Medical College
BARBARA JOHNSON, Assistant Professor, MD, University of Michigan Medical School
CYNTHIA JOHNSON, Assistant Professor, PhD, University of South Carolina
WALTER KAYE, Professor, MD, Ohio State University College of Medicine
MARY KERR, Associate Professor, EdD, American University
ASHA KESHAVAN, Assistant Professor, MBBS, Government Medical College
MATCHERI KESHA V, Assistant Professor, MD, Mysore Medical College
MARY LOU KLEM, Assistant Professor, PhD, Memphis State University
WILLIAM KLUNK, Associate Professor, MD, PhD, Washington University School of Medicine
DAVID KOLKO, Associate Professor, PhD, Georgia State University
MARIA KOVACS, Professor, PhD, University of Pennsylvania
DAVID KUPFER, Professor, MD, Yale University School of Medicine
FOUZIA LAGHRISI-THODE, Visiting Assistant Professor, MD, University of Tours
JOSEPH LEVINE, Visiting Instructor, MD, Tel Aviv University
BRADLEY LEWIS, Assistant Professor, MD, University of Tennessee
DAVID LEWIS, Professor, MD, Ohio State University College of Medicine
ROLF LOEBER, Professor, PhD, Queens University
MARTIN LUBETSKY, Associate Professor, MD, Wayne State University School of Medicine
LISA MORROW, Associate Professor, PhD, University of Pittsburgh
RICHARD MORYCZ, Associate Professor, PhD, University of Pittsburgh
BENOIT MULSANT, Associate Professor, MD, University Laval Faculty of Medicine
EDWARD MULVEY, Professor, PhD, University of Virginia
PETER MURRAY, Assistant Professor, MD, University of Minnesota School of Medicine
KENNETH NASH, Assistant Professor, MD, University of Louisville School of Medicine
ROBERT NEBES, Professor, PhD, California Institute of Technology
HERBERT NEEDLEMAN, Professor, MD, University of Pennsylvania School of Medicine
MARSHA MARCUS, Associate Professor, PhD, University of Pittsburgh
VISHWAIIT NIMGAONKAR, Associate Professor, MD, PhD, University of Madras
ERIC NOFZINGER, Assistant Professor, MD, Ohio State University
KATHLEEN PAJER, Visiting Associate Professor, MD, MPH, University of South Alabama College of Medicine
KANAGASABAI PANCHLINGAM, Research Assistant Professor, PhD, University of Pittsburgh
HARANATH PAREPALLI, Assistant Professor, MBBS, Kakatiya University
JAMES PEREL, Professor, PhD, New York University
KENNETH PERKINS, Professor, PhD, University of Iowa
JEFFREY PETERS, Associate Professor, MD, Case Western Reserve University School of Medicine
JAY PETTEGREW, Professor, MD, University of Illinois College of Medicine
JOSEPH PIERRI, Assistant Professor, MD, University of Chicago
PAUL PILKONIS, Professor, PhD, Stanford University
BRUCE POLLOCK, Professor, MD, PhD, University of Toronto Faculty of Medicine
ALAN RAHM, Visiting Assistant Professor, MD, Albert Einstein College of Medicine
MICHAEL RANCURELLO, Associate Professor, MD, Medical College of Ohio
RAVINDER REDDY, Assistant Professor, MD, University of Mysore
ELLEN REDINBAUGH, Research Instructor, PhD, Ohio State University
CHARLES REYNOLDS, Professor, MD, Yale University School of Medicine

STEPHANIE RICHARDS, Assistant Professor, MD, Johns Hopkins University School of Medicine

GALE RICHARDSON, Associate Professor, PhD, West Virginia University

JULES ROSEN, Professor, MD, University of Cincinnati College of Medicine

JASON ROSENSTOCK, Assistant Professor, MD, Brown University

LOREN ROTH, Professor, MD, MPH, Harvard Medical School

PAOLA RUCCI, Research Assistant Professor, DrStat, University of Bologna

CHRISTOPHER RYAN, Associate Professor, PhD, University of California

NEAL RYAN, Professor, MD, Yale University School of Medicine

MUKESH SAH, Assistant Professor, MBBS, University of Delhi

IHSAN SALLOUM, Associate Professor, MD, University of Bologna School of Medicine

CARLOS SANTIAGO, Assistant Professor, MD, University of Salamanca

JUDITH SAXTON, Assistant Professor, PhD, University of Reading

SARAH SCHOLLE, Assistant Professor, DrPH, MPH, Johns Hopkins University

RICHARD SCHULZ, Professor, PhD, Duke University

M. KATHERINE SHEAR, Professor, MD, Tufts University School of Medicine

JOEL SHERRILL, Research Instructor, PhD, State University of New York

GREGORY SLOMKA, Assistant Professor, PhD, University of Pittsburgh

JAIR SOARES, Assistant Professor, MD, University of Sao Paolo Medical School

LALITHKUMAR SOLAI, Visiting Assistant Professor, MBBS, Kilpauk Medical College

PAUL SOLOFF, Professor, MD, University of Pittsburgh School of Medicine

DUANE SPIKER, Visiting Professor, MD, Ohio State University

VAUGHAN STAGG, Assistant Professor, PhD, Vanderbilt University

JEFFREY STANLEY, Assistant Professor, PhD, University of Western Ontario

STUART STEINHAUER, Research Associate Professor, PhD, City University of New York

SABATO STILE, Assistant Professor, MD, Loyola University

MAGDA STOUTHAMER-LOEBER, Associate Professor, PhD, Queen’s University

HOLLY SWARTZ, Assistant Professor, MD, Albert Einstein College of Medicine

JOHN Sweeney, Associate Professor, PhD, Syracuse University

ROBERT SWEET, Associate Professor, MD, University of Maryland School of Medicine

MICHAEL THASE, Professor, MD, Ohio State University College of Medicine

DIANE THOMPSON, Assistant Professor, MD, Wright State School of Medicine

KENNETH THOMPSON, Assistant Professor, MD, Boston University School of Medicine

A. HUSSAIN TUMA, Professor, PhD, University of Maryland

RAMESHWARI TUMULURU, Assistant Professor, MBBS, Gandhi Medical College

RICHARD ULRICH, Research Assistant Professor, MS, University of Pittsburgh

PETRONILLA VAULX-SMITH, Assistant Professor, MD, PhD, UMD, NJ

DOUGLAS WILLIAMSON, Assistant Professor, PhD, University of Pittsburgh

RENA WING, Professor, PhD, Harvard University

ROBIN WRAGG, Assistant Professor, MD, University of Washington School of Medicine

FRANCES WREN, Assistant Professor, MBBCh, University College

JEFFREY YAO, Research Associate Professor, PhD, University of Detroit

GEORGE ZUBENKO, Professor, MD, PhD, University of Pittsburgh School of Medicine

DEPARTMENT OF RADIATION ONCOLOGY

NATHAN ANDERSON, Instructor, MS, University of Cincinnati

YOSHIO ARAI, Assistant Professor, MD, Hokkaido University School of Medicine

SANJEEV BAHRI, Assistant Professor, MD, Emory University School of Medicine

SERGIO BALLESTER, Instructor, MS, University of Texas
PRABHA BANSAL, Assistant Professor, MBBS, Delhi University
KURT BLODGETT, Research Instructor, MS, Wayne State University
SALLIE BOGGS, Associate Professor, PhD, University of California
ELMER CANO, Associate Professor, MD, University of Trujillo
MICHAEL EPPERLY, Research Assistant Professor, PhD, West Virginia Institute of Technology
CLARE FAUL, Visiting Assistant Professor, MBBCh, University of Dublin
KRISTINA GERSZTEN, Assistant Professor, MD, University of Rochester
ANDRE KALEND, Associate Professor, PhD, Kent State University
GWENDOLYN KING, Instructor, MSc, Howard University
SELVARAJ NAGAPPAN, Instructor, MS, Wayne State University
DAVID PArDA, Assistant Professor, MD, University of South Florida College of Medicine
DANIEL PAVORD, Instructor, MS, University of Pittsburgh
MUBINA QUADER, Assistant Professor, PhD, SUNY
SUSAN RAKFAL, Assistant Professor, MD, UMD, NJ
CYNTHIA STEINER, Instructor, MS, University of Pittsburgh
LIQIANG TAO, Assistant Professor, PhD, University of North Dakota
JOHN VARLOTTO, Assistant Professor, MD, University of Pittsburgh School of Medicine
MATTHEW VOSSLER, Instructor, MS, University of Texas Health Science Center
QIMIN ZHAN, Assistant Professor, MD, PhD, Suzhou Medical College

DEPARTMENT OF RADIOLOGY

RAUCHELNE AKINDELE, Visiting Instructor, MD, State University of New York
NIKHIL AMESUR, Assistant Professor, MD, Tufts University School of Medicine
CHUANYONG BAI, Research Instructor, PhD, University of Utah
THOMAS BENDER, Associate Professor, MD, Jefferson Medical College
FERNANDO BOADA, Assistant Professor, PhD, Case Western Reserve University
A'DELBERT BOWEN, Professor, MD, Medical College of Georgia

MANUEL BROWN, Professor, MD, Wayne State University School of Medicine
CLIVE BROWN-PROCTOR, Visiting Assistant Professor, PhD, University of Leicester
ANNE CAHILL, Assistant Professor, MBBCh, University College of Galway
WILLIAM CAMPBELL, Professor, MD, Cornell University Medical College
PAUL CHANG, Associate Professor, MD, Stanford University School of Medicine
THOMAS CHANG, Assistant Professor, MD, Washington University School of Medicine
MARTIN CHARRON, Associate Professor, MD, University of Sherbrooke
JOHN CROWLEY, Visiting Instructor, MD, Trinity College
PETER DAVIS, Associate Professor, MD, UCLA School of Medicine
MICHAEL FEDERLE, Professor, MD, Georgetown University School of Medicine
JAMES FERRIS, Assistant Professor, MD, University of Maryland School of Medicine
CHARLES FITZ, Professor, MD, University of Michigan Medical School
CARL FUHRMAN, Professor, MD, University of Pittsburgh School of Medicine
MELANIE FUKUI, Assistant Professor, MD, University of Pittsburgh School of Medicine
H. MICHAEL GACH, Assistant Professor, PhD, University of Pittsburgh
RICHARD GNEGY, Assistant Professor, MD, West Virginia University School of Medicine
SARASWATI GOLLAPUDI, Assistant Professor, MBBS, Guntur Medical College
WALTER GOOD, Research Professor, PhD, University of Pittsburgh
DAVID GUR, Professor, ScD, University of Pittsburgh
KELLY HAARER, Visiting Instructor, MD, University of Maryland School of Medicine
CHRISTIANE HAKIM, Assistant Professor, MD, Northeastern Ohio University College of Medicine
LARA HARDESTY, Assistant Professor, MD, University of Pennsylvania School of Medicine
JOHN HOLBERT, Assistant Professor, MD, West Virginia University School of Medicine
CHRISTOPHER JOHNS, Assistant Professor, MD, University of Florida College of Medicine

EMANUEL KANAL, Associate Professor, MD, University of Pittsburgh School of Medicine

PAUL KINAHAN, Assistant Professor, PhD, University of Pennsylvania

CHESTER MATHIS, Associate Professor, PhD, University of California

BARRY MCCOOK, Assistant Professor, MD, University of Florida College of Medicine

CAROLYN MELTZER, Associate Professor, MD, Johns Hopkins University School of Medicine

MANUEL MEZA, Assistant Professor, MD, Jefferson Medical College

BEVERLEY NEWMAN, Associate Professor, MD, University of Witwatersand

JAMES OLIVER, Associate Professor, MD, Medical College of Georgia School of Medicine

PHILIP ORONS, Assistant Professor, DO, Philadelphia College of Osteopathic Medicine

ROBERT PEARD, Assistant Professor, MD, West Virginia University School of Medicine

MARK PETERSON, Assistant Professor, MD, University of California School of Medicine

WILLIAM POLLER, Assistant Professor, MD, University of Pittsburgh School of Medicine

JULIE PRICE, Assistant Professor, PhD, Johns Hopkins University

WILLIAM REESE, Visiting Instructor, MD, University of Texas

WILLIAM ROTHFUS, Visiting Professor, MD, University of Rochester School of Medicine

DONALD SASHIN, Associate Professor, PhD, Carnegie Mellon University

AANSHU SHAH, Visiting Instructor, MD, University of Michigan School of Medicine

RATAN SHAH, Assistant Professor, MBBS, NHL Municipal Medical School

GUIXIONG SHEN, Assistant Professor, PhD, University of Texas

MARSHA STEIN, Assistant Professor, MD, University of Miami Medical School

VICTOR STENGER, Research Assistant Professor, PhD, Ohio State University

DIANE STROLLO, Assistant Professor, MD, Uniformed Services University of Health Sciences

JULES SUMKIN, Associate Professor, DO, Ohio University

RICHARD SWENSSON, Research Associate Professor, PhD, University of Michigan

F. LELAND THAETE, Associate Professor, MD, Pennsylvania State University College of Medicine

KEITH THULBORN, Professor, MD, PhD, Washington University School of Medicine

JEFFREY TOWERS, Assistant Professor, MD, University of Connecticut School of Medicine

DAVID TOWNSEND, Professor, PhD, University of London

YANMING WANG, Visiting Assistant Professor, PhD, Swiss Federal Institute of Technology

ROBERT WILLIAMS, Visiting Assistant Professor, MD, UMD, NJ

ALBERT ZAJKO, Professor, MD, University of Pennsylvania School of Medicine

BIN ZHENG, Research Assistant Professor, PhD, University of Delaware

JOHN ZURLO, Visiting Instructor, MD, New Jersey Medical School

DEPARTMENT OF SURGERY

KAREEM ABU-ELMAGD, Associate Professor, MD, PhD, Mansoura University School of Medicine

JOHN ADKINS, Assistant Professor, MD, Johns Hopkins University School of Medicine

SIAMAK AGHAMOHAMMADI, Visiting Instructor, MD, PhD, University of Cambridge

ALBERT BAFFONI, Assistant Professor, MD, Brown University

HENRY BAHNSON, Professor, MD, Harvard Medical School

EDWARD BARKSDALE, Assistant Professor, MD, Harvard Medical School

CHRISTOPHER BARTELS, Assistant Professor, MD, University of Virginia

GEORGE BENZ, Assistant Professor, MD, University of Pittsburgh School of Medicine

TIMOTHY BILLIAR, Professor, MD, University of Chicago Pritzker School of Medicine

GEOFFREY BLOCK, Assistant Professor, MD, Bowman Gray School of Medicine

DAVID BLUMBERG, Assistant Professor, MD, State University of New York
MARGUERITE BONA VENTURA, Assistant Professor, MD, West Virginia University
CLARK BONHAM, Assistant Professor, MD, University of Oklahoma School of Medicine
HARVEY BOROVETZ, Professor, PhD, Carnegie Mellon University
PERCIVAL BUENA VENTURA, Visiting Instructor, MD, University of New Jersey School of Med & Dent
GREG BURGREEN, Research Assistant Professor, PhD, Old Dominion University
THOMAS CACCIARELLO, Visiting Assistant Professor, MD, State University of New York
BRIAN CARR, Professor, MD, PhD, St Mary’s Hospital Medical School
SALLY CARTY, Associate Professor, MD, Pennsylvania State University College of Medicine
YUE CHEN, Visiting Instructor, MD, PhD, Dalain Medical University
STUART CHETLIN, Associate Professor, MD, University of Pittsburgh School of Medicine
ANSON CHEUNG, Visiting Instructor, MD, University of Manitoba
NEIL CHRISTIE, Visiting Assistant Professor, MD, University of Toronto
GIOVANNI CIUFFO, Visiting Instructor, MD, Cagliari University Medical School
KEITH CLANCY, Visiting Assistant Professor, MD, Creighton University
ROBERT CORRY, Professor, MD, Johns Hopkins University School of Medicine
ANITA COURCOULAS, Assistant Professor, MD, MPM Boston University School of Medicine
CHRISTOPHER DALY, Associate Professor, MD, Georgetown University School of Medicine
STANTON DODSON, Assistant Professor, MD, Eastern Virginia Medical School
CATALDO DORIA, Visiting Assistant Professor, MD, University of Perugia Faculty of Medicine
HOWARD DOYLE, Assistant Professor, MD, National University of Colombia
IGOR DVORCHIK, Research Assistant Professor, PhD, Kharkov Railway University
HOWARD EDINGTON, Associate Professor, MD, Temple University School of Medicine
LINDA FARKAS-PRITCHARD, Visiting Assistant Professor, MD, Loyola Stritch School of Medicine
WILLIAM FEDERSPIEL, Associate Professor, PhD, University of Rochester
HIRAN FERNANDO, Assistant Professor, MBBS, University of London
PETER FERSON, Professor, MD, University of Pittsburgh School of Medicine
PAULO FONTES, Visiting Assistant Professor, MD, São Paulo State University School of Medicine
HENRI FORD, Associate Professor, MD, Harvard Medical School
JOHN FUNG, Professor, MD, PhD, University of Chicago Pritzker School of Medicine
J. WILLIAM FUTRELL, Professor, MD, Duke University School of Medicine
ANDREA GAMBOTTO, Research Instructor, MD, University of Bari
CHANDRASHEKHAR GANDHI, Research Assistant Professor, PhD, Nagpur University
KEVIN GARRETT, Assistant Professor, MD, University of Pittsburgh School of Medicine
TIMOTHY GAYOWSKI, Assistant Professor, MD, McMaster University
DAVID GELLER, Assistant Professor, MD, Northwestern University Medical School
TONY GODFREY, Visiting Assistant Professor, PhD, Brunel University
CHRISTOPHER GORDON, Assistant Professor, MD, University of Michigan
BARTLEY GRIFFITH, Professor, MD, Jefferson Medical College
SEAN GRONDIN, Visiting Instructor, MD, Dalhousie University
CARL-GORAN HAGERT, Visiting Professor, MD, PhD, University of Goteborg
BRIAN HARBRECHT, Assistant Professor, MD, University of Louisville School of Medicine
ROBERT HARDESTY, Professor, MD, University of Pittsburgh School of Medicine
ANTHONY HARRISON, Professor, MD, Jefferson Medical College
KAZUYUKI HATAKEYAMA, Visiting Assistant Professor, MD, PhD, Yamaguchi University Medical School
BRACK HATTLER, Professor, MD, PhD, Cornell University Medical College
DANIEL HECHTMAN, Assistant Professor, MD, Washington University School of Medicine

ROSEMARY HOFFMAN, Research Assistant Professor, BS, University of Minnesota

DENNIS HURWITZ, Professor, MD, University of Maryland

SAYEED IKRAMUDDIN, Assistant Professor, MD, Albany Medical College

SHUNZABURO IWATSUKI, Professor, MD, Nagoya University School of Medicine

TIMOTHY JACOB, Assistant Professor, MD, Temple University School of Medicine

ASHOKKUMAR JAIN, Assistant Professor, MD, Topiwala National Medical School

RONALD JOHNSON, Assistant Professor, MD, University of Pittsburgh School of Medicine

MARINA KAMENEVA, Research Assistant Professor, PhD, Moscow University

SIDDHARTHA KAR, Research Assistant Professor, PhD, University of Pittsburgh

DONALD KEENAN, Assistant Professor, MD, University of Pittsburgh School of Medicine

ROBERT KEENAN, Associate Professor, MD, University of Alberta

CHIHIRO KOIKE, Research Instructor, MD, PhD, Nagoya University

ROBERT KORMOS, Associate Professor, MD, University of Western Ontario Faculty of Medicine

KENNETH LEE, Associate Professor, MD, University of Chicago Pritzker School of Medicine

WEI LI, Research Instructor, MD, PhD, Norman Bethune University of Medical Sciences

KENNETH LITWAK, Research Assistant Professor, DVM, PhD, Kansas State University

PHILIP LITWAK, Research Associate Professor, PhD, Colorado State University

ROBERTO LOPEZ, Visiting Instructor, MD, University of Monterrey

LINA LU, Research Assistant Professor, MD, Shanghai Medical University

JAMES LUKETICH, Assistant Professor, MD, Medical College of Pennsylvania

JAMES LYNCH, Associate Professor, MD, Brown University Program in Medicine

JUAN MADARIAGA, Associate Professor, MD, Valladolid University

MICHEL MAKAROUN, Associate Professor, MD, American University of Beirut

ERNEST MANDERS, Professor, MD, Harvard Medical School

IGNAZIO MARINO, Professor, MD, Catholic University of Sacred Heart

JAMES MARSH, Associate Professor, MD, University of Arkansas

GEORGE MAZARIEGOS, Assistant Professor, MD, Northwestern University Medical School

SUSAN MCCARTHY, Associate Professor, PhD, University of Wisconsin

KENNETH MCCURRY, Assistant Professor, MD, University of Florida

JOHN MCMICHAEL, Research Assistant Professor, BS, University of Waterloo

THOMAS MERRILL, Research Instructor, PhD, Pennsylvania State University

DIANA METES, Research Assistant Professor, MD, Institute of Medicine & Pharmacy

ADRIAN MORELLI, Research Instructor, MD, PhD, University of Buenos Aires

ARTHUR MOSER, Assistant Professor, MD, Washington University School of Medicine

SATISH MULUK, Assistant Professor, MD, Boston University School of Medicine

NORIKO MURASE, Associate Professor, MD, Nagoya University School of Medicine

NILS NYSTROM, Visiting Associate Professor, MD, PhD, University of Umea School of Medicine

SHOWRI PALEPU, Assistant Professor, MD, Sir Venkateswara University Med College

JOHN PATZER, Assistant Professor, PhD, Stanford University

ANDREW PEITZMAN, Professor, MD, University of Pittsburgh School of Medicine

FRANK PIGULA, Assistant Professor, MD, University of Vermont College of Medicine

SHI-GUANG QIAN, Research Assistant Professor, MD, Shang-Hai Medical University

ramesh ramanathan, visiting instructor, MBBS, Madras Medical College

ABDUL RAO, Assistant Professor, MD, Dow Medical College

JORGE REYES, Professor, MD, Federal University of Minas Gerais

JUAN MADARIAGA, Associate Professor, MD, Valladolid University

MICHEL MAKAROUN, Associate Professor, MD, American University of Beirut

ERNEST MANDERS, Professor, MD, Harvard Medical School

IGNAZIO MARINO, Professor, MD, Catholic University of Sacred Heart

JAMES MARSH, Associate Professor, MD, University of Arkansas

GEORGE MAZARIEGOS, Assistant Professor, MD, Northwestern University Medical School

SUSAN MCCARTHY, Associate Professor, PhD, University of Wisconsin

KENNETH MCCURRY, Assistant Professor, MD, University of Florida

JOHN MCMICHAEL, Research Assistant Professor, BS, University of Waterloo

THOMAS MERRILL, Research Instructor, PhD, Pennsylvania State University

DIANA METES, Research Assistant Professor, MD, Institute of Medicine & Pharmacy

ADRIAN MORELLI, Research Instructor, MD, PhD, University of Buenos Aires

ARTHUR MOSER, Assistant Professor, MD, Washington University School of Medicine

SATISH MULUK, Assistant Professor, MD, Boston University School of Medicine

NORIKO MURASE, Associate Professor, MD, Nagoya University School of Medicine

NILS NYSTROM, Visiting Associate Professor, MD, PhD, University of Umea School of Medicine

SHOWRI PALEPU, Assistant Professor, MD, Sir Venkateswara University Med College

JOHN PATZER, Assistant Professor, PhD, Stanford University

ANDREW PEITZMAN, Professor, MD, University of Pittsburgh School of Medicine

FRANK PIGULA, Assistant Professor, MD, University of Vermont College of Medicine

SHI-GUANG QIAN, Research Assistant Professor, MD, Shang-Hai Medical University

ramesh ramanathan, visiting instructor, MBBS, Madras Medical College

ABDUL RAO, Assistant Professor, MD, Dow Medical College

JORGE REYES, Professor, MD, Federal University of Minas Gerais
KUN RHEE, Assistant Professor, MD, University of Rochester School of Medicine

JOSHUA RUBIN, Associate Professor, MD, George Washington University School of Medicine & Health Sci

JAMES RUSSAVAGE, Assistant Professor, MD, DMD, University of Pittsburgh School of Medicine

TETSURO SAKAI, Visiting Instructor, MD, Kyoto University Faculty of Medicine

VELMA SCANTLEBURY, Associate Professor, MD, Columbia University College of Phys & Surgeons

PHILIP SCHAUER, Assistant Professor, MD, Baylor College of Medicine

WOLFGANG SCHAUT, Professor, MD, PhD, Ludwig-Maximilians University

RICHARD SHAPIRO, Research Instructor, BS, University of Pittsburgh

RON SHAPIRO, Associate Professor, MD, Stanford University School of Medicine

KENNETH SHESTAK, Associate Professor, MD, Tufts University School of Medicine

GALINA SHURIN, Instructor, PhD, Moscow Research Institute

MICHAEL SHURIN, Assistant Professor, MD, PhD, Moscow State Medical Institute

RALPH SIEWERS, Professor, MD, Bowman Gray School of Medicine

JO SIMKINS, Visiting Assistant Professor, MD, St. Louis University School of Medicine

RICHARD SIMMONS, Distinguished Service Professor, MD, Boston University School of Medicine

RAKESH SINDHI, Assistant Professor, MD, Armed Forces Medical College

RONALD STANKO, Visiting Associate Professor, MD, University of Pittsburgh School of Medicine

THOMAS STARZL, Distinguished Service Professor, MD, PhD, Northwestern University Med School

DAVID STEED, Professor, MD, University of Pittsburgh School of Medicine

ANN STEWART-AKERS, Research Instructor, PhD, University of Pittsburgh School of Medicine

WALTER STORKUS, Associate Professor, PhD, Duke University

HONG SUN, Research Assistant Professor, MD, Beijing Medical University

JIANLIN TANG, Research Instructor, MD, Harbin Medical University

ANGUS THOMSON, Professor, PhD, University of Aberdeen

SAMUEL TISHERMANN, Associate Professor, MD, University of Pittsburgh School of Medicine

RICARD TOWNSEND, Visiting Associate Professor, MD, University of Massachusetts Medical College

JEFFREY TRACHTENBERG, Assistant Professor, MD, State University of New York Health Sci Ctr

LUIS VALDIVIA OLAYA, Research Assistant Professor, MD, PhD, National University of Trujillo

YORAM VODOVOTZ, Visiting Associate Professor, PhD, Cornell University Medical College

DAVID VORP, Assistant Professor, PhD, University of Pittsburgh

WILLIAM WAGNER, Associate Professor, PhD, University of Texas

LIAN WANG, Research Assistant Professor, MD, Norman Bethune University of Medical Sciences

ZIQIU WANG, Research Assistant Professor, MD, Anhui Medical College

MARSHALL WEBSTER, Professor, MD, Johns Hopkins University School of Medicine

EUGENE WIENER, Professor, MD, Medical College of Virginia

SCOTT WILLIAMS, Professor, MD, University of Pittsburgh School of Medicine

JENNIFER WOODWARD, Research Assistant Professor, PhD, Medical University of South Carolina

ZHONGJUN WU, Research Assistant Professor, PhD, University of Miami

HAIYAN XU, Research Associate Professor, MS, University of Science and Technology

TOSHIE YONEYAMA, Research Instructor, PhD, Hokkaido University Faculty of Science

MARCO ZENATI, Visiting Assistant Professor, MD, University of Verona School of Medicine

XIN ZHOU, Research Instructor, PhD, University of Rhode Island

YUE ZHU, Research Assistant Professor, MD, Shanghai Second Medical University

DEPARTMENT OF UROLOGY

TIMOTHY AVERCH, Visiting Assistant Professor, MD, University of Pittsburgh School of Medicine

MICHAEL CHANCELLOR, Associate Professor, MD, Medical College of Wisconsin
CHUAN GAO, Assistant Professor, MD, PhD, Sichuan Medical College

ROBERT GETZENBERG, Associate Professor, PhD, Johns Hopkins University School of Medicine

THOMAS HAKALA, Professor, MD, Harvard Medical School

RONALD HREBINKO, Assistant Professor, MD, University of Pittsburgh School of Medicine

MARK JORDAN, Professor, MD, University of Toronto Faculty of Medicine

BADRINATH KONETY, Visiting Instructor, MBBS, Bangalore University

JOHN LAVELLE, Visiting Instructor, MBBCh, Royal College of Surgeons

JOEL NELSON, Professor, MD, Northwestern University Medical School

CARLOS VIVAS, Assistant Professor, MD, Catholic University of Cordoba