2014 Advisor’s Symposium

Important Information to Provide Prospective Students About the OUHSC Graduate College

Dr. Anne Pereira, Graduate College Dean
GRADUATE COLLEGE STUDENTS
258 graduate students
32 MS and PhD Programs

Allied Health
MS/PhD

Public Health
MS/PhD

Nursing
PhD

Pharmacy
PharmD/MS
MS/PhD

Medicine
MS/PhD

Dentistry
MS

Spring 2014
Graduate College Admission Requirements

- **Full Standing**
  - 3.0 Last 60 GPA
  - Good standing with previous university
  - 12 or more graduate hours with 3.0 GPA
  - International student TOEFL minimum of 79
    - Some programs require higher
    - US high school diploma or US Bachelors can substitute
- **Probationary Admission**
  - 2.75-2.99 GPA
Graduate College Student Data

- 258 students enrolled in Spring 2014; 589 graduate faculty members
  - Involved in research projects totaling over $31 million in extramural grants
  - Contributing authors on 75 peer-reviewed papers
  - Presented over 100 presentations at national and international scientific meetings
  - Student were awarded $26,000 in travel awards through the 2014 GREAT Symposium
Programs Offered

• **Allied Health Sciences**
  - Medical Dosimetry: MS
  - Allied Health Sciences: MS/PhD
  - Nutritional Sciences: MS
  - Communications Sciences and Disorders: PhD

• **Medicine- Biomedical Sciences**
  - Biochemistry and Molecular Biology: MS/PhD
  - Cell Biology: PhD
  - Microbiology and Immunology: PhD
  - Neuroscience: MS/PhD
  - Pathology: PhD
  - Physiology: MS/PhD
Programs Offered

• **Medicine**
  - Combined MD/PhD
  - Radiological Sciences: MS/PhD
  - Genetic Counseling: MS
  - Graduate Program in Biomedical Sciences (GPiBS)
    - 1 year interdisciplinary program leading into a PhD program

• **Dentistry**
  - Orthodontics: MS
  - Periodontics: MS

• **Graduate College Interdisciplinary**
  - Clinical and Translational Science: MS
Programs Offered

• **Nursing**
  – PhD

• **Pharmacy**
  – Pharmaceutical Sciences: MS/PhD
  – PharmD/MS

• **Public Health**
  – Biostatistics and Epidemiology: MS/PhD
  – Health Promotion Sciences: MS/PhD
  – Occupational and Environmental Health: MS/PhD
Graduate College Orientation
Tuesday, August 12, 2014 | 1:30 - 5 PM

Essential information for a successful graduate school experience.
HSC Campus: Bird Library Auditorium, LIB 299
OU Tulsa Campus: LC 205

Click here for more information

Deadlines - Summer 2014

Apr 28 Final date to file Admission to Candidacy Application
Jul 1 Final date to file for diploma
Jul 1 Final date to submit reading copy
Jul 14 Final date to schedule Comprehensive Exam
Jul 14 Final date for dissertation defense
Jul 20 Final date for oral defense of thesis/dissertation

Exceptions: "Petition for exception to deadline will be considered."

OUHSC Graduate College - 1000 N. Stanton L. Young Blvd. - Room 358 - Oklahoma City, OK 73117 405-271-3085 graduatecollege@ouhsc.edu
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Funding Opportunities

• Listing of funding sources online under Prospective Students
• Matching of independent fellowship by the Graduate College
• McNair Alumni Awards
  – Application deadline in April
• Graduate Assistantships
• Financial Aid lists scholarships opportunities
  – http://www.ouhsc.edu/financialservices/SFA/
Graduate Assistantships

• Graduate Research Assistants (GRAs)
  – Primary responsibility is the research effort on campus
    • Minimal Graduate Teaching Assistants
  – GRAs eligible for non-resident tuition waivers
  – Must work 10-20 hours/week
  – Work related to program of study
  – Full time enrollment required
  – Receive stipend of $6,000-$24,000/year
    • Program dependent
  – Appointment as GA outside program of study as long as appointment applies to program of study
Undergraduate Research Opportunities

• Extremely important for biomedical science programs and pharmaceutical sciences
  – [http://graduate.ouhsc.edu/specialprograms/undergraduate-research-opportunities.html](http://graduate.ouhsc.edu/specialprograms/undergraduate-research-opportunities.html)

• Research interests of OUHSC faculty found online
  – [http://research.ouhsc.edu/resources/f-i-n-d/](http://research.ouhsc.edu/resources/f-i-n-d/)
Volunteer and Credit Procedures for Undergraduates

• OU Norman students may volunteer or enroll for credit hours through Norman campus Intercampus Enrollment

• Students from external institutions may volunteer or enroll for credit if approved by their institution
  – BMSC 4990, maximum of 6 hours

• Participate in OUHSC Summer Undergraduate Research Programs
Timeline

• Freshman/Sophomore Year
  – Must have 3.0 to be accepted in **full standing** to OUHSC Graduate College

• Junior Year
  – Maintain 3.0 or higher GPA
  – Encourage participation in OUHSC Summer Undergraduate Research Programs
    • Best after sophomore and junior year
  – Take GRE
    • Expected scores vary by department, detailed information found at:
      – [http://graduate.ouhsc.edu/prospectivestudents/academic-programs-and-requirements.html](http://graduate.ouhsc.edu/prospectivestudents/academic-programs-and-requirements.html)
Timeline

• Senior Year
  – Application deadlines vary by department
    • December is latest for most programs
    • Program information found online under Prospective Students/Academic Programs and Requirements/Program Requirements
  – Recommendation Letters
    • Science/Math Faculty
    • Research Mentors
  – Goals/Purpose Statement
    • Extremely important to be clear and thorough
Contacts

• Dr. Anne Pereira, Graduate College Dean  Anne-Pereira@ouhsc.edu

• Dr. Gillian Air, Associate Dean  Gillian-Air@ouhsc.edu

• Dr. Katie Hudson, Assistant Director, Graduate Program in Biomedical Sciences and Summer Undergraduate Research Programs  Katie-Hudson@ouhsc.edu

• Nicole Yi-Wohlers, MD/PhD Program Coordinator  Nicole-Yi-Wohlers@ouhsc.edu
2014 Advisor’s Symposium

Graduate Program in Biomedical Sciences (GPiBS)

Dr. Eric Howard, Assistant Dean for Biomedical Graduate Programs
Graduate Program in Biomedical Sciences

• Is offered through the OUHSC Graduate College

• GPiBS students spend the first year completing interdisciplinary course work and participate in 3 lab rotations

• After finishing the first year in GPiBS, students select a specific program or department to complete their Ph.D. work
Program Benefits

• Generous stipend
  – $24,000

• Full tuition waiver

• Health insurance benefits
Participating Programs

• Biochemistry and Molecular Biology
• Cell Biology
• Microbiology and Immunology
• Oklahoma Center for Neuroscience
• Pathology
• Pharmaceutical Sciences
• Physiology
GPiBS Program – Year 1

• Fall Semester
  – Molecular Systems I and II
  – Cellular Systems I and II
  – Three Journal Club Sessions
  – Scientific Integrity
  – Two laboratory rotations (8 weeks each)

• Spring Semester
  – Students choose 9 selective courses specific to the Ph.D. program they want to enter
  – One or two laboratory rotations (8 weeks each)
<table>
<thead>
<tr>
<th>Block 1 (4 weeks)</th>
<th>Block 2 (4 weeks)</th>
<th>Block 3 (4 weeks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MI 6032 Immunology - Part 1</td>
<td>PHYO 6301-005 Genes to Physiology:</td>
<td>PHYO 6401-003 Genes to Physiology:</td>
</tr>
<tr>
<td>BIOC 6341-005 Metabolic Regulation</td>
<td>Angiogenesis and Lymphangiogenesis</td>
<td>Integrative Aspects of Smooth Muscle</td>
</tr>
<tr>
<td>BIOC 6321-003 Proteomics</td>
<td>OCNS 6201 Behavioral Neuroscience</td>
<td>Function</td>
</tr>
<tr>
<td>PHYO 6401-001 Genes to Physiology: Integrated Cardiovascular and Renal Systems</td>
<td>MI 6301 Basic Microbiology</td>
<td>MI 6111 Immunity and Disease</td>
</tr>
<tr>
<td>MI 5320 Basic Bacteriology</td>
<td>BIOC 6341-004 GTPases as Biological Switches</td>
<td>BIOC 6341 Transcription Regulation, Control of Development</td>
</tr>
<tr>
<td>PHSC 5561 General Principles of Pharmacology: The ins and outs of drug action</td>
<td>CELL 6321: OCNS 6321 Molecular and Cellular Aspects of Vision</td>
<td>MI 6501 Molecular Micro</td>
</tr>
<tr>
<td>BIOC 6321-004 Molecular Structure and Graphics in Biomedical Sciences</td>
<td>MI 6032 Immunology – Part 2</td>
<td>PHYO 6401-004 Genes to Physiology: Cellular and Physiological Aspects of Aging</td>
</tr>
<tr>
<td>PATH 6121 Molecular Mechanisms of Human Disease</td>
<td>PHSC 5571: OCNS 5571 Neuropharmacology</td>
<td>CELL 6331 Molecular Genetics</td>
</tr>
<tr>
<td></td>
<td>PHYO 6401-002 Genes to Physiology: Cardiovascular Genomics and Diseases</td>
<td>BIOC 6321-005 Molecular Virology</td>
</tr>
<tr>
<td></td>
<td>BIOC 6321-006 Glycobiology</td>
<td>PHSC 5581 General and Systemic Toxicology: The study of poisons</td>
</tr>
<tr>
<td></td>
<td>PATH 6301 From Cells to Tissues to Molecular Morphology</td>
<td>OCNS 6101 Neurobiology</td>
</tr>
<tr>
<td></td>
<td>OCNS 6311 Neuroimmunology</td>
<td></td>
</tr>
</tbody>
</table>

GPiBS Spring Selective Courses
GPiBS Timeline

• Apply and get accepted to GPiBS
• Year 1 – classes, journal clubs, seminars, and lab rotations
  – Students pick a lab and a Ph.D. program at the end of year 1
• Year 2 – continue course work specific to Ph.D. program
  – Students take the qualifying exam at the end of year 2 and become Ph.D. candidates
• Years 3-6
  – Students complete doctoral research, publish papers, present research at meetings
  – Students defend dissertation and receive Ph.D.
Recommended Undergraduate Courses

- Biochemistry
- Organic Chemistry
- Upper division biology (one or more of the following)
  - Cell Biology
  - Molecular Biology
  - Microbiology
  - Physiology
- Calculus
- Physics
Admissions

• Complete OUHSC online application
  – https://apps.ouhsc.edu/admissions/
  – Select Graduate College/Graduate Program in Biomedical Sciences
  – Upload personal statement and CV
  – List contact info for authors of recommendation letters

• Supplemental material for OUHSC Admissions and Records Office
  – Official transcripts
  – GRE scores
  – TOEFL scores and WES review for international students

• Three letters of recommendation
  – Authors can email to GPiBS Office: Melissa-Pinkston@ouhsc.edu
## GPiBS Admissions Statistics

<table>
<thead>
<tr>
<th>Year</th>
<th>Verbal</th>
<th>Quant</th>
<th>A/W</th>
<th>Average GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>61%</td>
<td>73%</td>
<td>40%</td>
<td>3.92</td>
</tr>
<tr>
<td>2011</td>
<td>67%</td>
<td>76%</td>
<td>43%</td>
<td>3.5</td>
</tr>
<tr>
<td>2012</td>
<td>75%</td>
<td>68%</td>
<td>45%</td>
<td>3.68</td>
</tr>
<tr>
<td>2013</td>
<td>61%</td>
<td>63%</td>
<td>38%</td>
<td>3.61</td>
</tr>
<tr>
<td>2014</td>
<td>63%</td>
<td>72%</td>
<td>55%</td>
<td>3.77</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td><strong>65%</strong></td>
<td><strong>70%</strong></td>
<td><strong>44%</strong></td>
<td><strong>3.70</strong></td>
</tr>
</tbody>
</table>

*The University of Oklahoma Health Sciences Center Graduate College*
<table>
<thead>
<tr>
<th>Year</th>
<th>Applied</th>
<th>Accepted</th>
<th>Offers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>87</td>
<td>20</td>
<td>33</td>
</tr>
<tr>
<td>2011</td>
<td>80</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td>2012</td>
<td>72</td>
<td>15</td>
<td>28</td>
</tr>
<tr>
<td>2013</td>
<td>78</td>
<td>14</td>
<td>25</td>
</tr>
<tr>
<td>2014</td>
<td>94</td>
<td>19</td>
<td>23</td>
</tr>
</tbody>
</table>
GPiBS General Information

• Over 50 faculty members on our mentor list
  – OUHSC and OMRF

• Students are encouraged to apply by February 15th
  – Admissions Committee begins reviewing applications in December
  – New class is usually chosen by March
Postdoctoral Career Options

• Research
  – Academic institute
    • OUHSC
  – Government institute
    • NIH, CDC, USDA, FBI
  – Industry
    • Genentech

• Teaching
  – OU, UCO

• Science Policy
  – NIH, scientific societies

• Science writing
  – Scientific journals
Contact Information

- **Director, GPiBS**
  - Eric Howard, Ph.D.
  - Associate Professor, Cell Biology
  Email: eric-howard@ouhsc.edu

- **Assistant Director, GPiBS**
  - Katie Hudson, Ph.D.
  - Instructor, Cell Biology
  Email: katie-hudson@ouhsc.edu

- **Program Coordinator, GPiBS**
  - Melissa Pinkston
  Email: melissa-pinkston@ouhsc.edu

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940 Stanton L Young Blvd.
P.O. Box 26901, BMSB 332
Oklahoma City, OK 73190

Phone: 405-271-2406

[http://www.oumedicine.com/gpibs](http://www.oumedicine.com/gpibs)
2014 Advisor’s Symposium

Summer Undergraduate Research Programs

Dr. Katie Hudson, Assistant Director
Summer Undergraduate Research Programs
Summer Undergraduate Research Programs

• Allows undergraduate students to perform research and gain valuable experience

• Four OUHSC Programs
  – **SURE** Summer Undergraduate Research Experience
  – **NARCH** Native American Research Center for Health
    • Cherokee, Chickasaw, Choctaw, Creek, Seminole, and others
  – **INBRE** Idea Network of Biomedical Research Excellence
    • SWOSU, Langston, Cameron, SEOSU, NSU, UCO
    • Regents funds covers ECU, Rogers State, UASO, PSU, NWOSU
  – **SRSP** Stephenson Cancer Center Summer Research Scholars Program
Sponsoring Community

• Benefactors that support the summer programs
  – INBRE: National Institute of Health
  – NARCH: National Institute of Health and Bureau of Indian Affairs
  – SURE: OUHSC Graduate College
  – SRSP: Stephenson Cancer Center

• Mentors provide the ideas and write the grants to support individual lab research
  – NIH, NSF, OCAST, private foundations such as AHA
Participating Programs

- OUHSC Graduate College
- OUHSC Graduate Program in Biomedical Sciences
- OUHSC College of Pharmacy
- Dean McGee Eye Institute
- Oklahoma Medical Research Foundation
Why do research? – Student’s Perspective

• Advance knowledge by doing something original
• Learn material in your major with hands-on work outside the classroom
• Experience the scientific method in practice
• Develop a one-on-one mentoring relationship with a faculty member/fellow/graduate student
• Find out what you like and don’t like to do in the lab
• Improve your resume
• Get informative letters of recommendation for graduate or professional school applications
• Find out more about what being a professional in your area of interest is like
Host Lab’s Perspective

- Advance the science
  - Ideas, experiments, publications, grant funding

- Education
  - Training of students for careers in science
  - Preparation for graduate school or professional school
OUHSC Laboratories Span Diverse Research Areas

- Vision
- Metabolic Disorders
- Glycobiology
- Infectious Disease
- Vaccine Development
- Transplantation

- Diabetes
- Cancer
- Arthritis/Inflammation
- Autoimmunity
- Cardiovascular Disease
- Alzheimer’s Disease
- Neuroscience
- Psychopharmacology
SURP Details and Benefits

• 9 week summer program (2014- May 20th to July 18th)
• Stipend and housing (varies by program)
• Course credit (Advanced Studies in Biomedical Research)
• Laboratory safety and research skill training
• Weekly enrichment sessions
  – Navigating industry, writing personal statements and abstracts, poster presentation skills
• Meet with representatives from all OUHSC colleges
  – Discuss graduate and professional programs
• Weekly “lunch and learn” with faculty to learn about OUHSC research projects
SURP Summer Finale

• SURP competitive poster presentation
  – SURP students present their posters to a panel of senior graduate students
  – 40+ SURP students participated, four monetary awards were given

• All SURP participants present posters at campus wide event
  – OUHSC faculty, students, and staff attend general poster viewing

• Program concludes with luncheon and award ceremony for mentors and students
  – Keynote address
  – Presentation of SURP certificates and awards
Application Information

• Requirements vary by program
  – Transcripts, personal statements, letters of recommendation, interviews

• Deadlines
  – SURE: February 6th, 2015
  – NARCH: February 27th, 2015
  – INBRE: January 31st, 2015
  – SRSP: February 1st, 2015
Contact Information

SURP Director:
Dr. Chris West
   Professor, Biochemistry & Molecular Biology
   Email: christopher-west@ouhsc.edu

SURP Assistant Director:
Dr. Katie Hudson
   Instructor, Cell Biology
   Email: katie-hudson@ouhsc.edu

SURP Program Coordinator:
Melissa Pinkston
   Email: melissa-pinkston@ouhsc.edu

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BMSB 332
Oklahoma City, OK 73104

Phone: 405-271-2406

http://graduate.ouhsc.edu/specialprograms/summer-undergrad-programs.html