DEPARTMENT OF BIOPHARMACEUTICAL SCIENCES

Developing a Strong Base, Building Curricular and Research Bridges

ROOSEVELT UNIVERSITY
COLLEGE OF PHARMACY
Dear Colleagues:

The past year has been very busy and remarkable in the history of our College, and the contributions of the faculty in the Department of Biopharmaceutical Sciences to the growth of the College has been noteworthy. The College received its continued Candidate Status in June 2013 and is preparing for the full accreditation that will take place in 2014. The faculty members have contributed immensely in teaching, scholarship and service to make the past achievement a reality. This is a reflection of the highly talented group of faculty.

Curriculum Development: In the area of curriculum development and delivery, all BPS faculty members have either created new courses or modified existing courses in order to maximize the learning of our students. The faculty/scholars are highly focused on ensuring that the delivery of the integrated sequences courses that embody basic pharmaceutical sciences and clinical outcomes/pharmacotherapy is robust.

Scholarship and International Outreach: In the area of scholarship, the faculty members have demonstrated sustained scholarship in grant seeking, publications, scholarly presentations, activities in professional organizations, recognitions, community service, etc. We have not only increased our teaching and scholarship network nationally but we have initiated and strengthened the two areas internationally in continents highlighted in the cover page map - Europe, Asia, Australia, Africa, South America including the Caribbean.

In the Caribbean, our faculty members either serve as graduate students research supervisor or as external examiner. In South America, the BPS faculty served as instructors on summer research project in the Amazon. In Africa, collaboration on clinical trial and other research projects has continued. A BPS faculty is currently hosting a Fulbright Scholar to conduct research on a drug delivery system. In Europe, collaborations have resulted in grants-in-aid to a faculty. In Asia, recognition is given to our faculty through invitation as a speaker at an international conference while academic bridges are being developed for curricular and research programs. A BPS faculty member continues to foster research in biotechnology nationally and as far as Australia. Under cooperative research agreement, two faculty members have active research projects with a PHARMA company, and with a start-up company. As part of building research infrastructure, a manufacturing laboratory and cell-culture rooms were built during the past academic year to enable faculty to conduct meaningful research and teaching. The build out is an addition to the two new research labs built early 2012.

The plan to start a graduate program is ongoing. This will further strengthen our research and scholarship base. A task force has been set up (that includes a member of Department of Biological, Chemical and Physical Sciences – DBCPS) to develop the plan and requirements for graduate program in pharmaceutical sciences. This will include collaborative curricular sharing between DBCPS and BPS departments.

Service: Members of the department faculty have also been equally engaged in professional services in form of activities in respective professional associations. Faculty members are also engaged in educational local community projects and social justice mission in Africa.

In summary, the department has progressed remarkably in teaching, scholarship and service in efforts to meet our strategic goals and develop students that are committed, competent, and compassionate.

Professionally,

CM Adeyeye

Moji Christianah Adeyeye, Ph.D, FAAPS, Senior Fulbright Scholar
Department Chair
Professor of Pharmaceutics and Drug Product Evaluation
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Doug Knerr, Ph.D
Executive Vice President
University Provost

George E. MacKinnon III, Ph.D, RPh, FASHP
Founding Dean, College of Pharmacy

Charles R. Middleton, Ph.D
President
Roosevelt University

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LIST OF FACULTY, AFFILIATE FACULTY AND STAFF

BPS FACULTY

Moji Christianah Adeyeye, PhD
sites.roosevelt.edu/madeyeye
Department Chair, Professor of Pharmaceutics

Amusa Adebayo, PhD
sites.roosevelt.edu/aadebayo02
Associate Professor for Biopharmaceutics/Pharmacokinetics and Pharmacometrics

Arun Jadhav, PhD
Professor of Pharmacology

Balwant Chauhan, MD, PhD
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Assistant Professor of Anatomy, Physiology, and Pathophysiology

Larry Potempa, PhD
Associate Professor of Biochemistry and Immunology

Paiboon Jungsuwadee, PhD
Assistant Professor of Pharmacology

Ravi Panakanti, PhD
sites.roosevelt.edu/rpanakanti
Assistant Professor of Pharmaceutics

Sonali Kurup, PhD
sites.roosevelt.edu/skurup01
Assistant Professor of Medicinal Chemistry

TBA
Pharmacology Position

BPS AFFILIATE FACULTY

Carmen Popescu, PhD
Senior Project Coordinator Pharmaceutical Applications, Roquette America Inc.

Debra Luffer-Atlas, PhD
Senior Research Advisor, Lilly Research Laboratories

Frank Sorgi, PhD, MBA
Vice President, Science & Technology, Patheon Pharmaceuticals

James Radosevich, PhD
Professor (tenured)/Staff Research Scientist, University of Illinois – Dental College and Cancer Center/VA Chicago Health Care System

Jay Trivedi, PhD, MBA
Senior Director, Product Development & Licensing, Patrin Pharma

Katherine Sheehan, PhD
Principal, Sheehan Scientific Consulting

Lou Jungheim, PhD
Principal, LNJ Consulting

Mark Weber, PhD
President and Senior Investigator, Fermalogic

Michael Kort, PhD
Project Director, Neuroscience Research, Abbott Laboratories Global Pharmaceutical Research and Development

Nkere Ebube, PhD
Director, Drug & Biologics New Product Quality & Technology Transfer, Hospira, Inc.

Panos Constantinides, PhD
Founder and Principal, Biopharmaceutical & Drug Delivery Consulting, LLC

Priyanka Rohatgi, PhD
Pharmacokinetics Scientist, Baxter Healthcare

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Surendera Tyagi, PhD, RAC  
Vice President, Oncology Business Unit Executive Vice President, IV Generics  
APP Pharmaceuticals, LLC., Fresenius-Kabi

Thomas Catalano, PhD  
President, PharmChem Analytical Consultants LLC

Tzuchi R Ju, PhD  
Scientific and Education Advisory Council, National Institute of Pharmaceutical Technology Education  
Head, Formulation Sciences II, Abbott

STAFF

Jennifer Mohyde  
Executive Secretary

Ruth Adewuya  
Pharmaceutics Laboratory Manager  
Affiliate Assistant Professor of Pharmaceutics

TBA  
Research Technician
CURRICULUM DEVELOPMENT AND DELIVERY

As a continuation of building a robust curriculum, the changes that took place during this past year in curriculum development are highlighted below.

Modification of the Pharmaceutics: Drug Delivery Sequences.
The Calculations Topics were separated from Pharmaceutics I: Drug Delivery to give the students proper understanding of concepts of pharmaceutical calculations and interactive time with faculty to practice such concepts. As a result, a new Calculations Course – PHAR 519 was created and the sequencing of topics in Pharmaceutics I and II: Drug Delivery was adjusted.

Integrated Sequences: As a continuous quality improvement of the integrated sequences (IS) courses, Dr. Paiboon Jungsuwadee was selected as Director of the sequences to oversee the IS committee and instructors in the coordination of the sequences.

Integrated sequence courses are didactic courses that represent a series of pharmacotherapy of body’s organ systems. There are a total of eleven integrated sequence courses, and each course covers two major foundational subjects (Medicinal chemistry and Pharmacology) and Pharmacotherapeutics in an integrated fashion. The integrated sequence courses make up one third of the didactic courses of our Pharmacy curriculum. The goal of the IS course faculty members is consistent alignment of all integrated sequences including grading rubrics, assessment strategies, format of recitation and other policies. Another goal is harmonization of the integrated sequences and the respective Pharmaceutical Care laboratory components in a manner that would maximize the student pharmacists’ learning outcomes.

Research Electives: The following courses were offered in 2012/2013 as Research Electives:
- Drug Delivery and Technology
  (Dr. Ravi Panakanti, Dr. Amusa Adebayo and Dr. Moji Adeyeye)
- Biopharmaceutical Drug Discovery Research
  (Dr. Larry Potempa)
- Research in Drug Design and Synthesis
  (Dr. Sonali Kurup)
- Field Research Elective – International Study Abroad Program – Medicinal Plants of the Amazon
  (Dr. Moji Adeyeye, Dr. Paiboon Jungsuwadee and Dr. Amusa Adebayo)

New Electives
- Pharmaceutical Biotechnology – Dr. Ravi Panakanti
- Membrane Transporters & Drug Efficacy – Dr. Paiboon Jungsuwadee
- Nutrition and Obesity – Dr. Balwant Chauhan
- Medicinal Plants of the Amazon – Dr. Moji Adeyeye, Dr. Paiboon Jungsuwadee and Dr. Amusa Adebayo
- Biotherapeutic Drugs – Dr. Larry Potempa
- Individualized Therapy and Personalized Medicine – Dr. Amusa Adebayo
- The Green Pharmacist and the Environment – Dr. Arun Jadhav
- Learning, Memory, Disease and Drugs – Dr. Arun Jadhav
- The Drug Development Process – Dr. Larry Potempa, Dr. Moji Adeyeye and Dr. Paul Ornstein
- Differential Diagnostics – Dr. Ruth Adewuya
STUDENTS’ RESEARCH

Faculty members have made tremendous efforts to create research electives despite the intensity of the College of Pharmacy professional program. BPS faculty also partnered with Department of Biological, Chemical and Physical Sciences to mentor Elgin Community College Students using the NIH Bridges Grant.

The following students in the PharmD program participated in different research projects in Summer 2013:

- **Abdul Vaajid Rehmani, Meredith Imler, Biljana Stojisavljevic and Yasser Rasheed**
  Modified C-Reactive Protein
  *Supervised by Dr. Larry Potempa*

- **Pinky Choksi, Holly Edwards, Patricia Majchrowski and Kasia Polanska**
  Design, Synthesis and Evaluation of Multi-targeted HIV Inhibitors
  *Supervised by Dr. Sonali Kurup*

- **Safa Salamah and Krista Foley (COP 2016 Class)**
  Chronopharmaceutical Drug Delivery of Theophylline
  *Supervised by Dr. Amusa Adebayo*

- **Katy Guo, Anum Bhaty and Sabeen Rizvi (COP 2016 Class)**
  Development of Pediatric Antiretroviral Dosage Form Intended for Prevention of Mother-to-Child-Transmission (MTCT) of HIV/AIDS
  *Supervised by Dr. Ravi Panakanti and Dr. Moji Adeyeye*

- **Mohamed Ali Memon (COP 2016 Class)**
  Formulation and Fluorometric Assay Development of Estradiol In-Situ Forming Gel of Ophthalmic Drug delivery
  *Supervised by Dr. Ravi Panakanti and Dr. Moji Adeyeye*

NIH Bridges Program Student Research Projects - Elgin Community College, Elgin, Illinois:

- **Guadalupe Gomez**
  Biological activity of leaf extract of 'Aegle marmelos', an Indian plant
  *Supervised by Dr. Balwant Chauhan*

- **Alexis Panzloff**
  Development of Pediatric Antiretroviral Dosage Form Intended for Prevention of Mother-to-Child-Transmission (MTCT) of HIV/AIDS
  *Supervised by Dr. Ravi Panakanti and Dr. Moji Adeyeye*

- **Thalia Robles and Josefinia Carlos**
  Chronopharmaceutical Drug Delivery of Theophylline
  *Supervised by Dr. Amusa Adebayo*

- **Sonia Colon-Medina**
  MRP-1 expression in trabecular meshwork cells
  *Supervised by Dr. Paiboon Jungsuwadee and Dr. Kelly Wentz-Hunter*

GRANTS AND GRANTS-IN-AID

The department has been actively engaged in research in 2011-2013. In 2011-2012, faculty members secured approximately $320,000 in form of grants and grants-in-aids, made 20 scholarly presentations and published 18 peer-reviewed manuscripts. Highlighted below are grants, presentations and published manuscripts by the faculty during the 2012-2013 academic year.

**Dr. Amusa Adebayo**

1. A. Adebayo, M. Adeyeye. Design and Evaluation of Dosage Form for the Circadian Rhythmic Delivery of Drugs. NIH Bridges Grant. $1200. **Funded**


3. A. Adebayo and Moji Adeyeye. Gastroplus from Simulations Plus, Inc. CA. $7,565. **Funded**

**Dr. Balwant Chauhan**

1. Studies on medicinal properties of plant extracts of ‘Typha angustifolia and latifolia’.
   NIH Bridges Grant. $2200.00 **Funded**

2. Donation of research supplies and equipment from Dr. Norman Frankel. $4000.00

**Dr. Moji Adeyeye**

1. Moji Adeyeye, Ravikiran Panakanti and Amusa Adebayo. High Dose metformin formulation for Direct Compression immediate / controlled release. – Roquette America Inc. **Funded:** $5000

2. Development of antiretroviral formulations for treating children with AIDS. NIH Bridges Grant. $1200. **Funded**

**Dr. Paul Ornstein**

1. **Grant**: Lilly TB Drug Discovery Initiative - $20,000 to support research on new drugs with lower treatment burden and effectiveness against resistant strains

**Grants-in-Aid:**

2. ACS Division of Medicinal Chemistry - $1750.00 grant-in-aid (Travel Support) ACS National Meeting in New Orleans, April 7-9. **Funded**

3. Heterocyclic Compounds Gordon Research Conference: $935.00 (registration costs). **Funded**

4. Medicinal Chemistry GRC: $1435.00 (registration and travel costs). **Funded**

5. Gilead Pharmaceuticals: $2000.00 (travel cost and honorarium)

**Dr. Ravi Panakanti**

1. Ravikiran Panakanti and Moji Adeyeye, Effect of Polymer Blend on the Characteristics of Ion-Activated In-Situ Gel Ophthalmic Delivery System for Use in the Treatment of Cataracts; NIH Bridges Funding: $1200. **Funded**

2. Donation of research supplies and equipment from Dr. Norman Frankel.
PRESENTATIONS AND MEETINGS

Dr. Amusa Adebayo
1. Amusa S Adebayo, Uday Kotreka, Ravi Panakanti, Ruth Adewuya and Moji C Adeyeye, Simulated Ocular Bioavailability of Estradiol Based on Preclinical Data in Rabbits, AAPS Annual Meeting, October 2012, Chicago, IL
2. Amusa S Adebayo, Anjali Joshi, Fred Esseku, Ravi Panakanti, Ruth Adewuya and Moji C Adeyeye, Age Appropriate Pharmacokinetic Prediction for Fixed Dose Combination (FDC) of Lamivudine, Nevirapine and Zidovudine using Adult Data Obtained in Phase 1 Clinical Trial, AAPS Annual Meeting, October 2012, Chicago, IL.

Graduate Student Mentorship/Supervision
2. Alexia Harvey (PhD., 2013) Chemical Modification of Yam (Dioscorea sp.) Starches and their Potential Use in Pharmaceutical Formulations - University of the West Indies, Mona Campus, Jamaica, WI (Mentors: Helen Asemota, Amusa Adebayo, Andrew Wheatley) – Awarded July 2013

Dr. Balwant Chauhan
1. B. Chauhan, F.J. Davis, Chun Xiao, B.C.Chauhan (2013). Therapeutic efficacy of intranasal GLP1 in AD, Poster presentation, 5th International Conference on Drug Discovery and Therapy (ICDdT), Feb. 18-21,2013, Dubai, U.A.E. (Poster was awarded 2nd best poster award)

Dr. Larry Potempa

Invited Teleconference
2. Collaboration/invited teleconference expert on C-reactive protein and epidemiology of airborne lung-induced inflammation – Aug 6, 2013: Co-Presenter:Doug Brugge, PhD, MS, Professor, Department of Public Health and Community Medicine, Tufts University School of Medicine

Dr. Moji Adeyeye
2. Overcoming Drug Shortages in the United States, AAPS Annual Meeting: Roundtable, Chicago, IL October 17, 2012
5. Academic Bridges to China and International Collaboration. Zhejiang University of Technology, June 3, Hangzhou, June 2013, China (Invited Speaker)
6. Challenges in the Development of Multicomponent Pediatric Antiretroviral Fixed Dose Formulation. June 5, Jiao Tong University, June 2013, June 2013, Shanghai, China (Invited Speaker)
7. Academic Bridges to China and International Collaboration. June 5, Jiao Tong University, June 2013, Shanghai, China (Invited Speaker)

Dr. Paiboon Jungsuwanee
1. Experimental Biology Annual Meeting 2013, Boston
2. AACP Annual Meeting 2013, Chicago

Dr. Paul Ornstein
1. Adventures in Drug Discovery: A Brief Retrospective. Presented at the Saul Winstein 100th Birthday Symposium, University of California, Los Angeles, October 6, 2012

Biochemistry/Med Chemistry/Pharmacology Research Lab
Dr. Ravikiran Panakanti

Dr. Ruth Adewuya

Dr. Sonali Kurup

Dr. Balwant Chauhan

Dr. Larry Potempa

Dr. Moji Adeyeye
**Dr. Paul Ornstein**

1. Medicinal chemistry of iGluR5 antagonists* Part I. Jesus Martinez-Perez, Paul Ornstein, et. al. Bioorganic and Medicinal Chemistry Letters, Submitted to the journal 7/22/13

2. Medicinal chemistry of iGluR5 antagonists* Part II. Jesus Martinez-Perez, Paul Ornstein et. al. Bioorganic and Medicinal Chemistry Letters Submitted to the journal 7/22/13

**Dr. Ravikiran Panakanti**


**Dr. Sonali Kurup**


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**BUILDING INTERNATIONAL TEACHING AND RESEARCH COLLABORATIONS**

**Memorandum of Understanding (MOU) Signed with Bowen University Teaching Hospital (BUTH), Nigeria**

The University signed a MOU with BUTH in March 2013. The health system was the site of the Phase I clinical trial of the pediatric fixed dose combination antiretroviral dosage forms, conducted by Dr. Adeyeye in 2010-2012. The agreement will entail the following activities and/or programs:

- Joint research activities (including exchange of faculty members and research students) in areas of mutual interest to the faculty of the two universities;
- Joint teaching or supervision of students;
- Joint delivery of special academic programs offering pathway for qualified students to complete double degrees from both universities;
- Facilitation of student exchange or study abroad with credit transfer and recognition;
- Staging of joint seminars, conferences and academic meetings
- Exchange of academic materials and other information.

As part of the formation of the agreement, the Chief Pediatrician at the hospital, Dr. Daniel Gbadero visited the College of Pharmacy in October 2012. He made a presentation on: “Inter-Professional Experience in Pediatric Clinical Practice and Research Seminar: Bowen University Teaching Hospital, Nigeria.”

**Initiation of Academic Collaborations with China**

The Chair of the department, Dr. Adeyeye made a trip to China to initiate research collaboration with some universities. She visited Zhejiang University of Technology in Hangzhou and Jiao Tong University in Shanghai, China where she made several presentations. A MOU agreement is being planned between Roosevelt University and the Universities. Some of the activities that will be covered by the agreement include student- led summer experience and research collaborations

**Research Collaboration with the Caribbean, Canada, Australia and Europe**

Dr. Amusa Adebayo continues to co-advice graduate students at the University of Technology in Jamaica and University of West Indies in Tobago, Trinidad.

Dr. Larry Potempa, an expert in mCRP protein has fostered a network of collaboration with colleagues in the various countries that includes providing mCRP proteins developed in his lab for various scientific research projects.

**Collaborative International Teaching of Electives**

A research elective on Medicinal Plants of the Amazon was developed in collaboration with the Peruvian National Institute for Traditional Medicine (IMET) through Global Awareness Institute, Florida. Ms Lauren Klimson (Class of 2015) participated in the two-week program as part of the Field Research elective.

**Hosting of Fulbright Scholar from Nigeria**

Dr. Adeyeye is hosting a Fulbright Scholar – Dr. Adenike Okunlola, an Assistant Professor at the University of Ibadan in Ibadan, Oyo State, Nigeria. Dr. Okunlola is working on the development of an anti-diabetic dosage form using modified starches. The Scholar will be in in Dr. Adeyeye’s lab for six months.
SERVICE
Professional Organizations and Activities

As part of service, faculty members are active in various national professional and scientific organizations including serving as journal reviewers and organizing sectional meetings in respective professional associations. Some faculty are also actively involved in local and global educational and social justice missions.

Dr. Amusa Adebayo
Professional Organizations
• American Association of Colleges of Pharmacy (October 2011)
• International Society of Pharmacometrics (Formerly American Society of Pharmacometrics) – April 2011
• American Pharmaceutical Association (APhA)
• American Association of Pharmaceutical Scientists (August 2012)
• Member International Pharmaceutical Federation (FIP, Netherlands), 2005.
• Member, International Association of Pharmaceutical Technology (APV, Germany), 2004.

Journal Reviewer
• AAPS PharmSciTech (Reviewer)
• E3 Journal of Biotechnology and Pharmaceutical Research
• Starch/Starke (Reviewer)
• The Caribbean Teaching Scholar (Editorial Board Member)
• Drug Development & Industrial Pharmacy (Reviewer)
• West Indian Medical Journal (Reviewer)
• West African Journal of Pharmacy (Reviewer)
• Journal of Pharmaceutical Technology & Drug Research (Reviewer)

Dr. Larry Potempa
Journal Reviewer
• Human Immunology
• African Health Sciences

Dr. Moji Adeguye
Professional organizations
• American Association of Pharmaceutical Scientists (AAPS)
• American Association of University Professors (AAUP)
• American Association of Colleges of Pharmacy (AACP)

Journal Reviewer
• Drug Development and Industrial Pharmacy
• Journal of Controlled Release
• AAPSPharmSci. AAPS on-line journal
• AAPSPharmSciTech. AAPS on-line journal

Dr. Paiboon Jungsuwanee
Professional Organizations
• American Society for Pharmacology and Experimental Therapeutics (ASPET)
• American Association of Colleges of Pharmacy (AACP)
• American Association of Pharmaceutical Scientists (AAPS)
• International Society for Study of Xenobiotics (ISSX)
• Center for continuing Pharmaceutical Education, Thailand
• American Association for Cancer Research

Dr. Paul Ornstein
Professional organizations
• American Chemical Society (ACS)
• Division of Medicinal Chemistry ACS
• Division of Organic Chemistry ACS
• AACP

Service to Professional Organizations
• Member of the Long Range Planning Committee for the Division of Medicinal Chemistry (MEDI ACS), 2013-2016, a group responsible to develop programming for MEDI ACS National Meetings and the Biennial National Med Chem Symposium

Dr. Ravikiran Panakanti
Professional Organizations
• American Association of Colleges of Pharmacy (AACP)
• American Association of Pharmaceutical Scientists (AAPS)

Journal Reviewer
• Pharmaceutical Research
• Molecular Pharmaceutics
• Journal of Drug Delivery
• Journal of Drug Targeting

Dr. Sonali Kurup
Professional organizations
• American Chemical Society (ACS)
• ACS Medicinal Chemistry Division
• ACS Chicago section
SERVICE
Educational and Social Justice Missions

Drs. Ruth Adewuya, Ravi Panakanti and Amusa Adebayo
• District 211 Career Trek Sessions – Compounding Laboratory Sessions.
  o Organized Pharmaceutics Lab Workshop for area high school students as part of the College of Pharmacy Career-Trek Program. Over 70 students were introduced to careers in pharmacy plus a lab exercise done by the students – Making of a Lip Balm

Drs. Moji Adeyeye and Ruth Adewuya
• Girls in Engineering, Math and Science (GEMS) Conference 2013
  o Conant High School – February 9, 2013
    The goal is to encourage girls to engage in science careers.
    (Pharm D Student Assistants – Nicole Canter and Lara Milenkovich (Class of 2015)

Dr. Moji Adeyeye
• Care for Orphans in Nigeria
  o Provides 24/7 care for twenty-two orphans in Nigeria including shelter, education, clothing, health care and psycho-social care at two Homes. The children/adolescents range from ages 5-23
    Sarah Orphan Home, Ogbomoso, Oyo State, Nigeria
    Sarah Orphan Home, Osogbo, Osun State, Nigeria
  o Planned and organized the building of a permanent home (through local fund raising) for Sarah Orphan Home, Ogbomoso, Nigeria

RECOGNITION AND AWARDS

Dr. Arun Jadhav
2013 Most Creative Teaching Style: Student Advisory Committee Award

Dr. Larry Potempa
2013 “Biggest Heart Award”: Student Advisory Council 2014. Recognizes outstanding dedication, relentless effort and exceptional encouragement

Dr. Moji Adeyeye
2013 Recognition Award in Community Partnership, Chicago Northwest Educational Council for Student Success (NECSS). Partnering with School Districts D211 & D214, and Barrington Unit 220 and helping during the Girls in Engineering, Mathematics and Science (GEMS) 2013 Expo
A. Pharm.D Program

1. Hire full time faculty with superior credentials and experience, and supplements with part-time and voluntary faculty, all having a good conceptual understanding of multidisciplinary trends within the pharmaceutical and biomedical disciplines and identification with the College of Pharmacy mission and goals (ACPE Standards Nos. 24-26)

2. Build a strong biomedical, pharmaceutical and clinical sciences curriculum with adequate depth and scope to provide the foundation and support for the intellectual and clinical objectives of the professional degree program (Standard No. 13). The sciences would provide the basis for understanding the development and use of medications and other therapies for the treatment and prevention of disease.

3. Develop a curriculum that uses and integrates teaching and learning methods that will produce graduates who become competent pharmacists (Standard No. 11)

4. Incorporate curricular assessments to ensure graduates that are competent in their professional practice and who would become lifelong learners (Standard No. 15)

5. Incorporates into the curriculum the underlying philosophy of expectations of competency, commitment and compassion to produce graduates who become advocates of social justice

6. Develop service learning that includes international experience to produce pharmacists that are culturally competent

7. Harness creative young minds from local high schools as pipeline for future pharmacy practitioners through reinforced engagement and interaction in science/math programs.

B. Research and Planned Graduate Program

1. Constitute a biopharmaceutical science Research Advisory Council to develop unique graduate or research programs that will complement the Pharm.D program and produce graduates who can integrate the clinical and pharmaceutical care experience with drug product performance within regulatory and legal confines.

2. Develop or foster relationships with the pharmaceutical industry, NIH and the FDA for stepwise initiation of research degree programs such as listed below:
   a. Pharm.D/M.S/Ph.D (Pharmaceutical Technology/Biotechnology, Pharmacology, Medicinal Chemistry)
   b. Pharm.D/M.S/Ph.D (Clinical Science and Regulatory Affairs)

3. Develop interdisciplinary research programs within the Departments of Biopharmaceutical Sciences, and Clinical and Administrative Sciences

4. Develop collaborative research programs with local institutions (university and industry) in the Chicago area maximizing the potentials to produce graduates that are highly competent

5. Harness industry scientists as part-time faculty/researcher mentors

6. Develop externship or co-op programs as part of the experiential tool for graduates

7. Develop continuing education programs to foster lifelong learning of students and the related professionals and as an entrepreneurial activity for the Roosevelt University College of Pharmacy
For more information:
roosevelt.edu/pharmacy/Academics/BPSfaculty.aspx

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