“SCIENCE, FOR ME, GIVES A PARTIAL EXPLANATION FOR LIFE. IN SO FAR AS IT GOES, IT IS BASED ON FACT, EXPERIENCE AND EXPERIMENT.”

DR. ROSALIND FRANKLIN
1920–1958
The Rosalind Franklin University of Medicine and Science (RFUMS) is named for Dr. Rosalind Franklin, the pioneering British researcher who captured “Photograph 51” of the “B” form of DNA in 1952 while at King’s College in London. This photograph revealed the structure of DNA, the key to understanding how the blueprint for every living thing is passed down from generation to generation.

Today, Rosalind Franklin University of Medicine and Science carries on her legacy of inquiry, diligence and academic excellence. Formed in 1912 as the Chicago Hospital-College of Medicine, the university is a national leader in interprofessional medical and healthcare education.

**OUR MISSION**

The mission of Rosalind Franklin University of Medicine and Science is to serve the population through the interprofessional education of health and biomedical professionals and the discovery of knowledge dedicated to improving the wellness of its people. Today, the university is shaping the future of health care through rigorous education, pioneering biomedical research and innovative community service.

**OUR VISION**

The vision of Rosalind Franklin University of Medicine and Science is to achieve national recognition as the premier interprofessional health sciences university. Sharing our accomplishments and contributing to the evidence base for science, interprofessional education and practice will help build a safer, more responsive, coordinated system of patient care, prevention and wellness.

**OUR VALUES**

Civility · Diversity · Excellence · Innovation · Integrity · Scholarship · Teamwork
INTERPROFESSIONAL EDUCATION

At Rosalind Franklin University of Medicine and Science, we believe in breaking down academic barriers. We take an interprofessional approach to education, so our students learn from and work with peers in other programs from the beginning of their time here.

That’s especially important, as healthcare teams play an increasingly vital role in patient care. At RFUMS, we prepare students for the future by integrating collaboration and teamwork into education. Having more than 30 graduate health professions and science programs in one university creates great opportunities to do that.

Additionally, each first-year student in our clinical programs takes the Foundations for Interprofessional Practice course during the fall quarter. This class, which acts as the introduction for an integrated interprofessional education experience, brings students from virtually all academic programs together to learn from one another, get oriented to the culture of health care and start interacting in small, interprofessional teams.
COLLEGE OF PHARMACY

The College of Pharmacy (COP) is the newest college at RFUMS and graduated its first class in 2015. The program focuses on exciting opportunities in a variety of career paths, including community pharmacy, health systems, industry, academia and public health.

As with other schools at RFUMS, interprofessional education separates the College of Pharmacy from other pharmacy programs. The rapid change in delivery of care is helping to drive the expansion of pharmacy’s scope of practice. From the first day, our students attend classes with peers studying other disciplines, and they learn from them along with the faculty.

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INTRODUCTION
From its inception, one of the missions of the College of Pharmacy has been to foster the research and scholarship efforts of our faculty and students. For our faculty, research/scholarship is one of the three criteria on which we are evaluated (the others are teaching and service). For our students, research offers a taste of the gratification that comes from uncovering a new revelation or insight. This booklet documents our research and scholarship achievements of the past academic year (July 1, 2016 - June 30, 2017). In these pages you will find the peer-reviewed scientific publications, books, book chapters, reviews, presentations at scientific meetings and research grant accomplishments of our faculty and students. We also list the nationally prominent speakers who have visited RFUMS as speakers in our Haim G. and Jane Graumann Nagirner Weinstein endowed seminar series.

This year, for the first time, we include contributions from an alumna, Alyssa Christensen, who has presented work as a resident, co-authored with our faculty. Throughout this booklet, we use bold text to indicate College of Pharmacy contributors, and an asterisk* to indicate student, resident and postdoctoral contributors.

We are proud to share with you the research and scholarship contributions of our college.

D. Eric Walters, PhD
Associate Dean for Research

Marc S. Abel, PhD
Dean, College of Pharmacy
When research and scholarship efforts produce interesting and important results, the scholar submits these results for publication in scholarly journals. But before the results can be published, they must undergo rigorous review by other experts in the field. Peer-reviewed publications have met the standards set by these experts. The following list of peer-reviewed publications represents significant efforts from College of Pharmacy faculty and students.


An important aspect of the sharing of new knowledge is the presentation of that knowledge in oral or poster format. This happens at regional, national and international conferences, and in the form of invited seminars. The College of Pharmacy has produced an impressive list of such presentations, listed here.


S. Gallagher, S.A. Connolly, Hemant Deokar*, and John K. Buolamwini. Developing Small Molecule Inhibitors of the Herpesvirus Fusion Protein Glycoprotein B. 41st Annual International Herpesvirus Workshop, July 23-27, 2016, Madison, WI.


Scientists and scholars who have accumulated significant expertise and respect from their peers are often asked to share their knowledge in the form of a book or a book chapter. Several College of Pharmacy faculty members have contributed such works during the past year.

### EXTERNAL SEMINAR & CONTINUING EDUCATION PRESENTATIONS


**John K. Buolamwini.** Design and Discovery of and Probes and Potential Drug Leads for Heart Disease, Cancer, and Viral Diseases. Department of Medicinal Chemistry, College of Pharmacy, University of Michigan, Ann Arbor, MI. April 6, 2017.

**John K. Buolamwini.** Design and Discovery of Potential Therapeutic Agents and Probes for Heart Disease, Cancer, Viral Diseases, and Alzheimer’s Disease. Department of Pharmaceutical Sciences, College of Pharmacy, Southern Illinois University at Edwardsville, Edwardsville, IL. November 4, 2016.


**Sarah S. Garber.** Structures and Processes, Strategic Planning, and Organizational Effectiveness. AACP Spring Institute: Developing a Culture of Sustainable Assessment; 2017


Abbie Lyden. S. Patel, and J. Sternbach. Meeting the standards for preceptor development. ASHP Midyear Clinical Meeting, December 2016. Las Vegas, NV.


PRESENTATIONS WITHIN THE UNIVERSITY


Danielle Candelario. The Whole Patient: An IP Approach to Caring for Patients with Co-morbid Mental Illness. Depression Panel Member, part of an Interprofessional CE Program. November 2016. RFUMS, North Chicago, IL.


Sean P. Kane, Khyati Patel, Michael Shuman, and Margaret Olson*. Descriptive Analysis of Drug-Related Podcasts and Their Authors. Summer Research Poster Session, October 19, 2016, Poster 101, RFUMS, North Chicago, IL; All School Research Consortium (ASRC), March 15, 2017, Poster 133, RFUMS, North Chicago, IL.


Research and scholarship takes many forms, and it often requires significant resources. Success in competition for research funding can provide such resources and further the discovery of new knowledge. The following list highlights such successes by College of Pharmacy faculty.


Our seminar program is generously supported by an endowment from Haim G. Nagirner Weinstein and Jane Grauman Weinstein. Dr. Nagirner was a research scientist at the North Chicago Veterans Administration facility and a Chicago Medical School faculty member with interests in geriatric health care and pharmacy.

MONDAY, AUGUST 29, 2016
DR. WILLIAM SOLIMAN, APOTHEKER GROUP
THE EVOLUTION OF THE PHARMACEUTICAL INDUSTRY: LIFE SCIENCES FOR SCIENTIFIC PROFESSIONALS

WEDNESDAY, FEBRUARY 1, 2017
DR. VALERIE L. TOKARS, NORTHWESTERN UNIVERSITY
STRUCTURAL BIOLOGY SOLUTIONS FOR BASIC AND TRANSLATIONAL WORK: ADDRESSING FUTURE NEEDS

MONDAY, APRIL 10, 2017
DR. CARRIE HASKELL-LUEVANO, UNIVERSITY OF MINNESOTA
CHEMICAL NEUROSCIENCE OF THE GPCR MELANOCORTIN PATHWAY AND OBESITY: TREATMENT BY DRUGS OR EXERCISE?

TUESDAY, APRIL 25, 2017
DR. AMY HAUCK NEWMAN, NATIONAL INSTITUTES OF HEALTH
IDENTIFYING MEDICATION TARGETS FOR DRUG ADDICTION: REDIRECTING THE DOPAMINE D3 RECEPTOR HYPOTHESIS

MONDAY, MAY 1, 2017
DR. JEANETTE ROBERTS, UNIVERSITY OF WISCONSIN
OPTIMAL PATIENT OUTCOMES START WITH INTERPROFESSIONAL EDUCATION
**THE PERSONAL SIDE OF HEALTH CARE**

The College of Pharmacy focuses on opportunities in a variety of career paths, including community pharmacy, health systems, industry, academia and public health. Individual attention in a small class size, as well as experience in a state-of-the-art patient simulation laboratory, puts students at the forefront of modern pharmacy practice.

As with other schools at RFUMS, interprofessional education separates the College of Pharmacy from other pharmacy programs. The rapid change in delivery of care is helping to drive the expansion of pharmacy’s scope of practice. From day one, students collaborate in teams, learning about, from and with one another’s profession, and how, together, they each impact the future of health care.

**EXCELLENT MEDICAL CARE IS THE PRODUCT OF A GREAT TEAM**

We teach that patients are not only at the center of the model of care, but also an active member of that team. Students learn that outcomes improve through positive patient interactions and clear communication. During their training, students sharpen those interactions, along with critical reasoning and communication skills in simulation labs. Our program provides immunization training and puts students in contact with actual patients early in their first quarter.

**STATE-OF-THE-ART FACILITIES**

The RFUMS 97-acre campus is home to cutting-edge technology used throughout the curriculum, and even has a Department of Healthcare Simulation. Examples of advanced systems that RFUMS students use include:

**Pharmacy Skills Lab:** Dedicated to learning communication and technical skills needed in the pharmacy field, this new lab gives students hands-on experience in many areas of contemporary pharmacy practice such as clinic, hospital or neighborhood pharmacy.

**The Education and Evaluation Center:** Students perform clinical histories and patient assessments on standardized patients within this safe, learner-centered environment.

**The Simulation and Skills Lab:** This is home to several full-body mannequin simulators that can mimic dilating pupils, breathing and circulation. These allow students to have realistic experiences on an interprofessional team in a risk-free setting.

**HANDS-ON FUTURES**

Through experiential rotations, student pharmacists learn the possibilities their degree has to offer.
CONTACT US FOR MORE INFORMATION

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Rosalind Franklin University of Medicine and Science is regionally accredited by the Higher Learning Commission and all programs are approved by the Illinois Board of Higher Education. Rosalind Franklin University of Medicine and Science College of Pharmacy’s Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60503-4810; Phone: 312-664-3575; Fax: (866) 228-2631; Website: www.acpe-accredit.org.