“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
ACADEMIC ACHIEVEMENT IS IN OUR DNA

Rosalind Franklin University of Medicine and Science (RFU) 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 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 humanity through the interprofessional education of health and biomedical professionals, and the discovery of knowledge dedicated to improving wellness. 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 be 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 specializations from the beginning of their time here.

That’s especially important, as healthcare teams play an increasingly vital role in medicine. At RFU, 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 foundation for an integrated interprofessional education experience, brings students from all academic programs together to learn from one another, get oriented to the culture of health care and start interacting in small, interprofessional teams.
The College of Pharmacy (COP) is the newest college at RFU 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 RFU, 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.
INTRODUCTION
The following pages document the research and scholarship accomplishments of the faculty and students of the College of Pharmacy during the past academic year. The discovery and dissemination of new knowledge is an important part of each faculty member’s responsibilities, and it is especially satisfying when we can involve our students in these endeavors. Research and scholarship activities in the college cover a wide range of topics, from the laboratory to the clinic to the classroom.

Each year we also list the names of those who have been invited speakers in our endowed seminar series. We are fortunate to be able to bring in outstanding scientists and clinicians from all over the country, so that they can share their discoveries with us. This is made possible by the generosity of the Haim G. Nagirner Weinstein and Jane Graumann Weinstein endowment.

Throughout this brochure, we use **bold** text to indicate College of Pharmacy contributors, and an asterisk* to indicate student, resident and postdoctoral contributors.

**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.


Ateequr Rahman, Yelena Sahakian*, Sean Kane, Marc Abel and Rahul Deshmukh. Live-feed use in the Classroom as an Engagement Tool. *Currents in Pharmacy Teaching and Learning*. (Accepted for Publication)


(Bold = College of Pharmacy contributors, Asterisk* = Student, resident and postdoctoral contributors)
ABSTRACTS AND PRESENTATIONS AT EXTERNAL MEETINGS

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.


**Eris Tollkuci**, H. Hodges, C. Varughese, A. Seddon, K. Schultz, Z. Click and B. Seyboth. Multidisciplinary approach to optimizing posaconazole use at RUMC. Rush University Medical Center Quality Fair, Chicago, IL, Apr. 2019.


**Eris Tollkuci**, A. Seddon, K. Schultz, Z. Click and B. Seyboth. Pharmacy directed chemotherapy and monoclonal antibody dose rounding: A cost savings evaluation. Rush University Medical Center Quality Fair, Chicago, IL, Apr. 2019.


**D. Eric Walters**. Discovery and Design of Small Molecule Inhibitors of Citrate Transporter Proteins. Keynote Lecture, First International Conference, Advancement on Biotechnology and Biocomputing; February 9, 2019; Islamic University, Islamabad, Pakistan.

(Bold = College of Pharmacy contributors, Asterisk* = Student, resident and postdoctoral contributors)


Bridget Fleming*, Isaiah Blackburn*, M. Bonar, Kristy Shanahan and John K. Buolamwini. hTERT Incorporation into Yeast Cells, Part 2. Summer Research Poster Session, October 17th, 2018, RFUMS, North Chicago, IL; All School Research Consortium (ASRC), March 20, 2019, RFUMS, North Chicago, IL.


Yelena Sahakian*, Brisilda Bylykbashi*, Ateequr Rahman, Rahul Deshmukh, Sean Kane and Marc Abel. Social Media Live-Feed as an Engagement Tool in the Classroom. All School Research Consortium (ASRC), March 20, 2019, Oral Presentation, RFUMS, North Chicago, IL.

Yelena Sahakian*, Brisilda Bylykbashi*, Ateequr Rahman, Rahul Deshmukh, Sean Kane and Marc Abel. Social Media Use in the Classroom as an Engagement Tool. Summer Research Poster Session, October 17th, 2018, RFUMS, North Chicago, IL.


Sarah Singer* and John K. Buolamwini. Studies on New Anticancer Compounds. Summer Research Poster Session, October 17th, 2018, RFUMS, North Chicago, IL; All School Research Consortium (ASRC), March 20, 2019, Oral Presentation, RFUMS, North Chicago, IL.


(K = College of Pharmacy contributors, Asterisk* = Student, resident and postdoctoral contributors)

*Lauren B. Angelo*. Invited Speaker, APhA’s Pharmacy-Based Immunization Delivery Faculty Training Program. Binghamton University School of Pharmacy, Dec. 2018.


*John K. Buolamwini*. Design and Discovery of Novel Agents for Cancer, Cardiovascular and Viral Diseases. Department of Pharmacological and Pharmaceutical Sciences, University of Houston College of Pharmacy, Dec. 18, 2018.

*John K. Buolamwini*. Design and Discovery of Potential Therapeutic Agents and/or Probes for Cancer, HIV/AIDS, Ischemia and Mitochondrial Protection. Department of Biochemistry and Molecular Genetics, Feinberg School of Medicine, Northwestern University, Chicago, IL, Apr. 26, 2018.


*Sneha B. Srivastava*. Examining the Role of Serotonin and Unique Approaches to Treating Chronic Idiopathic Constipation. Invited speaker at 4 Directions in Pharmacy meetings nationally, multiple dates, 2018–2019.

*Sneha B. Srivastava*. Revealing the Who and the What Behind the Cardiovascular Outcomes Trials: How to Best Apply the data to Your Patients. Webinar for APhA Diabetes SIG.


(Bold = College of Pharmacy contributors)


(Bold = College of Pharmacy contributors)
The following list highlights such successes by College of Pharmacy faculty:


**Nidhi Gandhi**, **Scott Hanes** and **Danielle Candelario**. Impact of communication technique training on rates of naloxone dispensing. APhA, Feb. 1, 2019.


(Amp = College of Pharmacy contributors, Asterisk* = Student, resident and postdoctoral contributors)

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**Achivement Awards**

The College of Pharmacy Outstanding Achievement in Research Award

Each year, just prior to Commencement, an award is presented to a graduating College of Pharmacy student for Outstanding Achievement in Research. This year, two students were selected for this award.

**Alexandria Henry** was involved in research for most of her time at the college. Alex did a synthetic chemistry project one summer, and participated in a study of longitudinal Advanced Pharmacy Practice Experience the following year. She was vice president of the RFUMS chapter of the Industry Pharmacists Organization (IPhO), and placed 3rd and 5th nationally in the IPhO Case Competition.

**Soyoungr Chang** worked with Prof. Kristy Shanahan and Prof. John Buolamwini in a project that involved expression of human telomerase reverse transcriptase in the mitochondria of yeast cells. She presented her project in the Toxicology section at the American Society of Health-System Pharmacists Midyear Clinical Meeting in 2018.

**Previous Winners:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>Monal Punjabi</td>
</tr>
<tr>
<td>2016</td>
<td>Andrew Ruettiger</td>
</tr>
<tr>
<td>2017</td>
<td>Shannon Riley</td>
</tr>
<tr>
<td>2018</td>
<td>Tiffany Chairudin</td>
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</tbody>
</table>
CREATE YOUR IMPACT.

YOU CAN SHAPE THE FUTURE OF THE COLLEGE OF PHARMACY.

**BUOYED BY YOUR SUPPORT, we are:**

- **Strengthening programs and partnerships:** We are teaching future healthcare professionals how to transform systems of care through our innovative curriculum, use of state-of-the-art technology and expansion of clinical affiliates and community partnerships.
- **Impacting the community:** We are committed to improving health, wellness and access to educational opportunities in underserved communities.
- **Expanding biomedical, clinical and social determinants of health research:** We are continually investing in the discovery of new treatments and therapeutics, including in the fields of neuroscience, cancer and genetic and infectious diseases.
- **Improving scholarship support:** We are decreasing the economic barriers to students’ aspirations.

Together we can strengthen our healthcare workforce and advance the discovery of knowledge dedicated to improving wellness.

**PARTNER WITH US TO MAKE AN IMPACT.**

SUPPORT THE COLLEGE OF PHARMACY by contributing online

https://rfu.ms/impactcop

Please consider a recurring gift, which empowers our students and faculty and funds our top priorities.
THE HAIM AND JANE NAGIRNER W CENTENNIAL SYMPOSIUM SERIES
2018–2019
Our seminar program is generously supported by an endowment from Haim G. Nagirner Weinstein and Jane Graumann 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, SEPTEMBER 24, 2018
DR. CARRIE ROSKAMP, PILLSBURY WINTHROP SHAW PITTMAN LLP
CAREER PATHS IN INTELLECTUAL PROPERTY

THURSDAY, OCTOBER 18, 2018
DR. STACY BROWN, EAST TENNESSEE STATE UNIVERSITY
USING DRUG STABILITY STUDIES TO ENHANCE PATIENT CARE

TUESDAY, NOVEMBER 13, 2018
DR. RAJIV R. SHAH, MYMEDS
THE REAL WORLD APPLICATION OF INTERPROFESSIONAL TEAMS

WEDNESDAY, APRIL 24, 2019
DR. ATEEQUR RAHMAN AND YELENA SAHAKIAN*
ESTABLISHING A SUCCESSFUL LONGITUDINAL MENTORSHIP

MONDAY, APRIL 29, 2019
DR. ART FIOCCO, REGULATORY COMPLIANCE ASSOCIATES, INC.
PHARMACEUTICALS — IMPROVING WELLNESS AND THE QUALITY OF LIVES WHILE REDUCING THE TOTAL COST OF HEALTHCARE

TUESDAY, MAY 7, 2019
DR. TERRICK ANDEY, MASSACHUSETTS COLLEGE OF PHARMACY AND HEALTH SCIENCES
TOWARDS A MORE PRECISE MEDICINE: MOLECULAR AND FORMULATION APPROACHES FOR TARGETED TREATMENT OF CANCER

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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 RFU, 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 RFU 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 RFU 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.

INNOVATION AND RESEARCH PARK: Opened in Spring 2020, includes 100,000 square feet of space designed to increase interaction, a free exchange of ideas and sharing of expertise and scientific tools.
CONTACT US FOR MORE INFORMATION

COLLEGE OF PHARMACY

Rosalind Franklin University of Medicine and Science
3333 Green Bay Road
North Chicago, IL 60064-3095

pharmacy.admissions@rosalindfranklin.edu

847-578-3204

rosalindfranklin.edu

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.