

## THE PROGRAM

The *Masters Graduate Programs* in Molecular Pharmacology and Therapeutics at Loyola University Chicago Health Systems Division prepares students for competitive and productive careers in academic research, the Pharmaceutical Industry and for government Regulatory Agencies. We offer an MS with a research focus, and an MS/MBA joint degree (with the Business School) with more of a drug development focus.

Our interdepartmental and interdisciplinary approach provides students with a broad selection of mentors in multiple areas including Neuroscience, Cardiovascular, Hemostasis, and Cancer Biology. These programs provide you with the knowledge and the tools to be competitive for employment in the Pharmaceutical or Regulatory industries, and for academic research or further educational opportunities including the Ph.D. and M.D. In addition to our academic faculty, we have more than twenty Affiliate faculty from Industry involved in teaching and opportunities to network and apply for internships exist.

### VISIT OUR WEBSITE

<https://ssom.luc.edu/pharmacology/>

### APPLY ON-LINE

<https://gpem.luc.edu/apply/>

## FACULTY INTERESTS

### Joanna Bakowska, Ph.D.

Genetic, behavioral and cellular approaches to study mechanisms in spastic paraplegias

### Neil Clipstone, Ph.D.

Mechanism of cellular invasion by amyloid protein aggregates in neurodegenerative disease

### Mitchell Denning, Ph.D.

Cell fate decisions of keratinocytes and melanocytes, PKC signaling and UV response in epidermis and UV-induced carcinogenesis

### Jawed Fareed, Ph.D.

Pathophysiology of thrombotic and cardiovascular disorders and their pharmacological management

### Rocco Gogliotti, Ph.D.

Neurogenetics of autism and autism-associated disorders and the neuropharmacology of novel treatment strategies

### Gonzalo Torres, Ph.D.

Function and regulation of brain monoamine transporters and their role in the actions of psychostimulants and antidepressants

### Eileen Foecking, Ph.D.

Mechanisms of peripheral nerve injury and repair with focus on therapeutic and surgical techniques to enhance regeneration

### Debra Hoppensteadt, Ph.D.

Thrombosis, hemostasis and biomarker development for disease and drug adverse effects

### Simon Kaja, Ph.D.

Mechanisms that underly human ophthalmic, neurological, and neurodegenerative disorders

### W. Keith Jones, Ph.D.

miRNA regulation of gene expression and exosome function in cardiovascular disease, cancer and neuronal signaling

### Gwendolyn Karjte, M.D., Ph.D.

Neuronal plasticity after stroke and traumatic brain injury

### Kelly Langert, Ph.D.

Biomaterials for targeted or localized delivery of therapeutics to the peripheral nervous system

### Whelton A. Miller, Ph.D.

Pharmacoinformatics, molecular modeling, and in silico drug design

### Karie Scrogin, Ph.D.

Neurobiology of anxiety and depression in heart disease; neural control of circulation in hemorrhagic shock

### Monsheel Sodhi, Ph.D.

Genetic, epigenetic, and post-transcriptional effects in major psychiatric disorders



**PROGRAM START DATES**  
**Orientation July 28, 2023**  
**Classes begin July 31, 2023**  
**ROLLING ADMISSIONS**

**FINAL APPLICATION**  
**DEADLINE July 15, 2023**

### For Inquiries contact:

**Dr. W. Keith Jones, Ph.D.**  
Graduate Program Director  
Molecular Pharmacology and  
Neuroscience Graduate Program  
Loyola University Chicago  
Stritch School of Medicine  
2160 South First Avenue  
Maywood, IL 60153  
ANY QUESTIONS  
Phone: (708)216-8269

**ANY QUESTIONS**  
Phone: (708) 216-5773  
E-mail: [wjones7@luc.edu](mailto:wjones7@luc.edu)