

As it unlocks the mysteries of drug action, discovers new therapies, and develops new medicines, Pharmacology touches all our lives.

Pharmacology is an integrated, multi-disciplinary science encompassing a diversity of fields such as neuroscience, cardiovascular science, cancer biology, molecular and cellular biology, endocrinology, toxicology, forensics, pharmaceuticals, and clinical science. Few scientific disciplines can match the breadth and scope of the pharmacological sciences.

In its entirety, pharmacology encompasses knowledge of the sources, chemical properties, biological effects, and therapeutic uses of drugs. Pharmacological studies range from the effects of drugs on subcellular mechanisms, to those dealing with potential hazards of pesticides, to those that focus on treatment and prevention of major diseases with drug therapy. Integrating knowledge from many related scientific disciplines offers a unique perspective to solving drug, hormone, and chemical-related problems as they impinge on human health.

Pharmacology is the science of drug action on biological systems.

## Frequently Asked Questions

### Don't I have to know a lot of chemistry before I study pharmacology?

No, you do not need to be an expert in Chemistry or Pharmacy to earn a Ph.D. in Pharmacology.

### How long will it take to earn my Ph.D.?

You set your own pace. Generally our students work for three to four years after entering their dissertation laboratory.

### Isn't pharmacology the same as pharmacy?

No. Pharmacologists do not dispense drugs. Instead, pharmacologists use drugs as tools to investigate how molecules, cells, tissues, organs and systems work.

If you'd like more information about the many exciting opportunities for graduate study in the pharmacological sciences, please contact us. We'd love to have the opportunity to meet you and tell you more about our specific program of study.

# Graduate Program in Pharmacology



## contact

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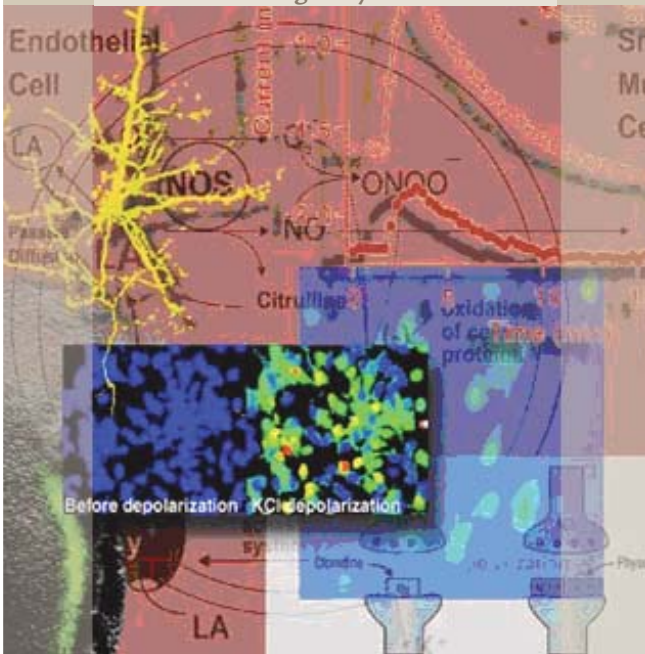
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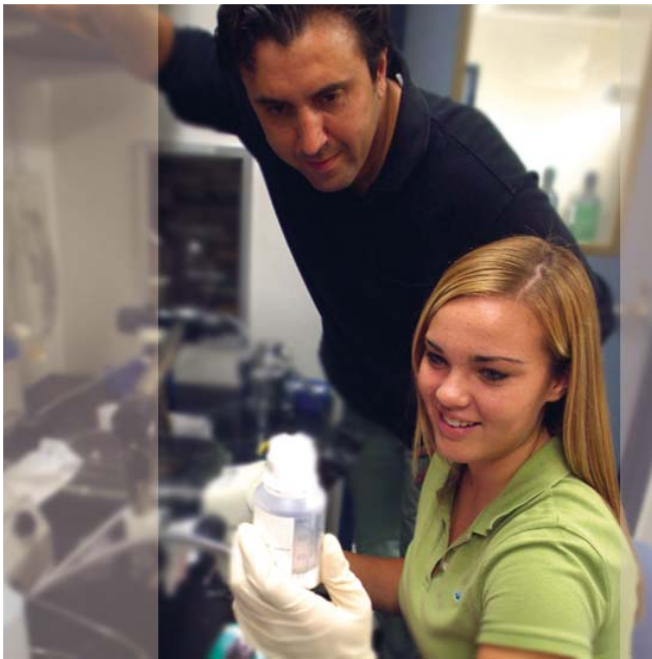
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**Imagination is the beginning of creation.** -George Bernard Shaw

**Can you imagine** yourself making a difference in the world?

**Can you imagine** yourself creating the knowledge that leads to new medicines and maybe even cures for diseases that afflict thousands of people?

**Can you imagine** yourself as a scientist who works toward understanding how drugs work and helps in the creation of new therapies?

**If you can imagine** yourself in such a way, then imagine yourself as a Pharmacologist!

If you are a highly motivated and inquisitive student who is seeking a career in the biomedical sciences and have a strong interest in making a major contribution to the understanding of current disease processes and the development of new therapies, then explore Pharmacology with us.

## Research That Makes a Difference

The MCG Department of Pharmacology and Toxicology has a rich history of accomplishments in biomedical research. For example, alpha and beta adrenergic receptors were first discovered here, leading to the creation of drugs such as the beta blockers.

**Outstanding Faculty Members:** Our faculty have a wide range of scientific interests to help you fulfill your personal career goals.

**Talented Colleagues:** Our students come from diverse backgrounds, yet share the common goal of becoming independent scientific investigators. You'll find both professional and personal support from your fellow pharmacology graduate students.

**Successful Graduates:** Our graduates have a track record of success as both faculty members and researchers in academic institutions and as researchers in the pharmaceutical industry.

**Making your professional dreams come true!**



[www.mcg.edu/som/phmtox](http://www.mcg.edu/som/phmtox)



**A Ph.D. in pharmacology will be the key that opens up a world of career opportunities for you.**

## So many options for you, including:

- **Academia:** Research and teaching careers at universities and major medical centers.
- **Government:** Government agencies like the NIH, EPA, FDA, and the CDC all employ pharmacologists as researchers.
- **Industry:** Pharmacologists are prime recruits for pharmaceutical and biotech companies seeking biomedical scientists.

Regardless of the setting, pharmacologists often work as members of multidisciplinary research groups. Working with scientists from many backgrounds contributes to the thrill of entering unexplored realms and participating in discoveries that have an impact on life and health. Plus...

There continues to be a shortage of pharmacologists. You would indeed be a vital part of an exciting biomedical research team!