

# Cleveland Clinic Center For Reproductive Medicine Summer 2013 Internship

June 10 - July 26, 2013

The 6th Annual Summer Internship Course in "Reproductive Research and Medicine"

Gain priceless research experience under the guidance of world-renowned leaders in **reproductive medicine, male fertility, and women's health** at Cleveland Clinic.

Make this a summer to remember!

2013



## The Center for Reproductive Medicine

The Center for Reproductive Medicine is a part of the Glickman Urological and Kidney Institute of the Cleveland Clinic. The Department of Urology is ranked as the no. 1 urology program in the nation by *U.S. News & World Report*.

The Center for Reproductive Medicine enjoys an international reputation for excellence and innovation in human infertility research and is dedicated to disseminating its results. Research papers from the Center staff are selected regularly for publication in distinguished medical journals. The Center's website has been ranked #1 for research in reproductive medicine and andrology since 2001 by all top five international search engines, including Google and Altavista. It has attracted over 800,000 visitors from all over the world.

More than 500 physicians and scientists from more than 50 countries have received their training at the Center for Reproductive Medicine during the past 20 years. Nearly 100 students in majors ranging from biology to English to the musical arts have participated in summer internships with the Center.

To learn more about our Summer Internship Course, including program faculty, internship syllabus and daily schedule, complete project listing, internship awards, pictures of interns' presentations and reception banquet, multimedia feedback, and accommodations, please visit our [2012 Summer Internship Page](#).

### Only the Cleveland Clinic Center for Reproductive Medicine brings you:

- Meaningful, real-time bench research experience
- Mentoring by world-renowned faculty
- Captivating lectures from a team of international scientists and physicians
- Intensive training in scientific writing
- The opportunity to observe innovative procedures during live surgeries
- The opportunity to publish research articles in prestigious medical journals

## Faculty

### Program Director



**Ashok Agarwal, PhD**  
Professor, Lerner College of Medicine  
Director, Center for Reproductive Medicine  
Department of Urology  
Cleveland Clinic

### Course Coordinators



**Rakesh Sharma, PhD**  
Associate Professor, Department of Urology  
Research Coordinator, Center for Reproductive Medicine  
Cleveland Clinic



**Sajal Gupta, MD**  
Assistant Professor, Department of Urology  
Assistant Research Coordinator, Center for Reproductive Medicine  
Cleveland Clinic

### Course Consultants



**Edmund Sabanegh, MD**  
Chairman, Department of Urology  
Director, Center for Male Infertility  
Professor, Lerner College of Medicine  
Cleveland Clinic



**Tommaso Falcone, MD**  
Chairman, OB/GYN & Women's Health Institute  
Professor, Lerner College of Medicine  
Cleveland Clinic

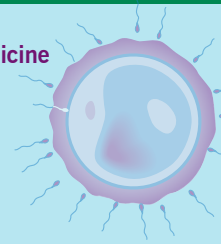
For additional information on internship staff, please visit our [faculty page](#).

### Crile Building



For more information, please contact

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**Center for Reproductive Medicine**  
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## The Research is the Difference

The Summer Internship in the Center for Reproductive Medicine delivers a unique, intensive bench research experience that will give you a lifelong foundation of skills — and look great on your resume!

As a Summer Intern, you will select a research project to work on from a list of several bench experiments in reproductive biology. Sample projects from past years have included study on Proteomic analysis of differential protein expression in mature and immature spermatozoa, the role of nitric oxide production on sperm signaling pathways, and catalase gene polymorphism analysis in male infertility. To view the Internship Manual each intern receives during orientation, [click here](#). The manual contains a thorough description of all planned bench projects available for selection.

You will work on a research project alongside a team of other Summer Interns under the direction of a reproductive biologist. At the end of the program, you will prepare and deliver a presentation on your research project to your fellow interns and medical staff.

Never worked in a scientific laboratory before? Our staff will teach you everything you need to know to have a successful research experience, from sample preparation to data recording. This invaluable experience will give you a competitive edge whether you are planning to apply to medical school, pursue a career in research, or just want to excel in your college science labs.



## Learn How to Write It Right

Being able to write a sound scientific paper is a specialized skill that can help you succeed in your future plans. As part of your Summer Intern

experience, you will select a subject to write about from a list of over three dozen exciting topics. In past years, interns have had the opportunity to write on topics such as: the genetic causes of male infertility, management of unexplained infertility, role of oxidative stress in polycystic ovary syndrome, role of pre-implantation genetic screening (PGS) in IVF treatment, tumor markers in ovarian cancer, and many more.

You will learn the tools and techniques of scientific writing from a Cleveland Clinic expert, then apply what you've learned to create a paper or book chapter. With the assistance of your staff mentor, you will go through all the steps of preparing an article or chapter for submission to a prestigious medical journal or book. When your manuscript is ready, you will actually participate in the submission process — and your name will appear as a co-author on the finished piece!

To view research publications from past interns, please visit our [publications page](#).

## APPLY NOW!

- A limited number of internship positions are available.
- A total of 20 interns were selected from a pool of 400 applicants for the 2012 Summer Internship.
- Only the most qualified applicants will be considered. International candidates are welcome to apply.
- Application deadline: **March 1, 2013**
- For more information on applying for the 2013 Summer Internship, please [click here](#).



## About Cleveland Clinic



Glickman Tower

Cleveland Clinic is ranked as one of America's Top 4 Hospitals by *U.S. News & World Report*. Located in Cleveland, Ohio, Cleveland Clinic is a nonprofit, multispecialty academic medical

center that integrates clinical and hospital care with research and education. Founded in 1921 by four renowned physicians with a vision of providing outstanding patient care based upon the principles of cooperation, compassion and innovation, it is the second largest group practice in the world with 2,000 physicians and scientists practicing and researching in more than 120 medical specialties and more than 1,400 beds. In addition to the main hospital located near Cleveland's historic University Circle, the Cleveland Clinic operates nine regional hospitals, a children's hospital, and 17 family health centers in Ohio, as well as hospitals in Florida, Las Vegas, Canada, and Abu Dhabi, employing more than 40,000 individuals and providing global worldclass medical care. Last year alone, 4.6 million patients from over 120 countries and all 50 states received their care at Cleveland Clinic.

The main hospital campus, located near downtown Cleveland, occupies 180 acres and 50 buildings. It includes a hospital, an outpatient clinic, a children's hospital, cancer institute, eye institute, research institute, a medical school, and supporting labs and facilities.

To learn more, visit [www.clevelandclinic.org](http://www.clevelandclinic.org)







## Here's what our past interns had to say about their summer experience ...



"While at Cleveland Clinic I had the opportunity to work on a review paper about research in adolescent PCOS, research on current trends in blastocyst vitrification and blastocyst biopsy and work on a lab experiment involving sperm and glutathione. The schedule provided an excellent balance of lectures and work time. I highly recommend this internship to other students looking for this type of experience."

Dinah Chen, Princeton University  
2008 Best Intern Award, 1st Place



"Cleveland Clinic's Center for Reproductive Medicine Research Summer Internship was an insightful and invaluable experience. I enjoyed learning from world-renowned scientists, researchers and physicians, and I appreciated their dedicated, helpful and caring attitude towards each student. This one-on-one aspect defined the outstanding nature of this experience. The program dramatically helped increase my knowledge in regards to fertility, reproduction, urology and medical research, heightening my interest in these fields. From working closely with the staff to the exceptional research opportunities, it was an amazing learning experience. The staff and prestigious name of the Cleveland Clinic make it an invaluable opportunity that should be experienced by any aspiring medical professional."

Brandon JD Rein, Ohio University College of Osteopathic Medicine  
2009 Best Presentation Award, 1st place



"The skills I have learned both on the bench and as a scientific writer from the summer internship program have already helped me immensely in my classes this semester. My professors are just so impressed with how comfortable I am to be working in the lab! The mentoring I received this past summer is by far the best and most intensive I have received up to this point in my career. Through your guidance and the guidance of the other mentors, I now feel more prepared for my future plans in medicine."

Alexandra Below, University of Notre Dame  
2011 Best Intern Award, 2nd place



"The summer internship was extremely helpful in advancing my scientific knowledge and skills. It significantly improved my public speaking skills and my confidence in being able to write a high-quality research article. The daily mentoring and supervision from the staff members were excellent. I would highly recommend this program."

Kathryn O'Flynn O'Brien, University of Pennsylvania  
2008 Best Presentation Award, 1st Place



"I was fortunate to find this internship with the help of career services department at our university. While glancing at the description of the internship, I was truly surprised and impressed at the breath of experiences that his program offers. After completing this internship, I can wholeheartedly say that it was one of the best experiences that I have ever had. Not only did this opportunity offer the opportunity to learn about Reproductive Medicine from renowned faculty, but it also allowed me to gain firsthand experience in conducting scientific research, writing scientific articles, learning about bench research techniques. I am convinced that the experience and knowledge that I gained in this internship will prove to be invaluable in my future endeavors."

Karishma Khullar, University of Pennsylvania  
2011 Most Dedicated Intern Award



"The program included an impressive amount of opportunities, including writing research paper(s), attending more than 100 lectures, lab tours and demonstrations, shadowing physicians and scientists, and observing bench research. Most importantly, the program provided me the opportunity to write a review article and have it published in a prominent journal. The support and encouragement from everyone was beyond my expectations. The research experience has me considering the possibility of future research in clinical medicine and becoming a writer, something I never considered because I did not believe I had the necessary skills."

Kim Ly, University of North Texas  
2009 Best Intern Award, 1st place



"The Center for Reproductive Medicine program is unrivaled in terms of quality and intensity of research, amiable environment and professionalism. The program offers experience in writing research papers, attending insightful lectures, observing lab tours and demonstrations, shadowing physicians and scientists and participating in bench research. The support and encouragement from the entire staff and visiting mentors exceeded my expectations and contributed significantly to my motivation to become actively involved. The skills and knowledge gained at Cleveland Clinic has provided me with the experience needed for future research in clinical medicine as an academician, physician and writer."

Anthony Kashou, Binghamton University  
2010 Best Intern Award, 1st place



"My experience with the Center for Reproductive Medicine Summer Internship Course was truly invaluable. With a plethora of mentors, medical experts, and other talented and brilliant students at my fingertips, I had an impressive arsenal of resources to conduct both laboratory and literature research. Not only did the extensive exposure to these research opportunities prepare me for a potential career in medicine, but they also strengthened my collaboration, communication, and dedication skills, assets that are pertinent for any future career. I highly recommend this program, and this is truly a one-of-a-kind opportunity that you don't want to pass up!"

Ethan Vargo, Miami University, OH  
2012 Best Presentation Award, 1st Place