cAMP Responsive Element Modulator (CREM) Signaling in the Testis

- FSH-beta
- Adenylate cyclase
- ATP → cAMP
- PKA-reg (cAMP-dependent)
- PKA-cat (cAMP-dependent)
- CBP
- CREB1
- CREM (activators)
- CREM (repressors)
- TR

Key:
- **B** Binding
- **Z** Catalysis
- **+P** Phosphorylation
- **TR** Transformation
- **T** Transcription regulation
- **CCF** © 2013

Intern:
Sixth Annual
Summer Internship Course
June 10 - July 26, 2013

Advances in Reproductive Research and Medicine

Summer Internship at Cleveland Clinic offers an environment of academic and clinical collaboration with unsurpassed experience that includes:

- Exposure to a state-of-the-art research environment
- Training in the art and science of how research is conducted
- Mentorship by respected researchers at a world-renowned medical institution

Center for Reproductive Medicine
Glickman Urological & Kidney Institute
“2012 Summer Research Interns Pictured Here”

Address:
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Cleveland Clinic, A19
Cleveland, OH, 44195
Phone: (216) 444-9485
Fax: (216) 445-6049
E-mail: andrology@ccf.org

www.clevelandclinic.org/reproductiveresearchcenter
Scholarship in Teaching Award
Recognizing Faculty Educators 2011

Presented to
Ashok Agarwal, PhD
Center for Reproductive Medicine, Glickman Urological and Kidney Institute
Cleveland Clinic

“Summer Internship Program in the Center for Reproductive Medicine (CRM)”

for making a positive impact on medical education and the careers of students, and for being a part of the School of Medicine’s legacy of educational excellence.

Thursday, March 01, 2012

Scholarship in Teaching Award
Recognizing Faculty Educators

The Case Western Reserve School of Medicine Scholarship in Teaching Awards is an annual program designed to recognize faculty contributions to education from the preceding year and promote undergraduate, graduate, and continuing medical education teaching as a scholarly activity.

Teaching approaches considered scholarly are characterized by 1) purposeful planning 2) systematic implementation and 3) reflection and assessment for improvement. The result should be an academic product that is actively shared and that will support the development of a community of teaching scholars.

This award was given out at the Case Medical School Education Retreat on March 1, 2012.
**Program Director**

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Director, Center for Reproductive Medicine  
Professor, Cleveland Clinic Lerner College of Medicine  
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<th>LIST OF SPEAKERS</th>
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<td><strong>DU PLESSIS, Stefan, PhD.</strong></td>
<td>Faculty In-Residence</td>
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<td><strong>LAMB, Dolores, PhD.</strong></td>
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<tr>
<td><strong>PAREKATTIL, Sijo, M.D.</strong></td>
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<td><strong>BOTROS-RIZK, Peter, M.D.</strong></td>
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<td><strong>TVRDA, Eva, MSc.</strong></td>
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<td><strong>BAKER, Doris, PhD.</strong></td>
<td>Speaker via Video Conference</td>
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<td><strong>NAGY, Zsolt Peter, M.D., PhD.</strong></td>
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<td><strong>GUDELOGLU, Ahmet, M.D.</strong></td>
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<td>MERLINO, James, M.D.</td>
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<td>CARABALLO, Carmen, M.T.</td>
<td>HAMATY, Marwan, M.D.</td>
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<td>GARLAK, Debbie, M.B.A., M.T.</td>
<td>MEHTA, Adi, M.D.</td>
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<td>HARMYCH, Larry, M.T.</td>
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<td>THOMAS, Anthony, M.D.</td>
<td>BAKER, Karen, M.D.</td>
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<td><strong>Biomedical Engineering</strong></td>
<td><strong>JOE &amp; Longino, Stephen J. M.D.</strong></td>
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<td>LI, Zong-Ming, PhD.</td>
<td><strong>KLEIN, Eric, M.D.</strong></td>
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<td><strong>Taussig Cancer Institute</strong></td>
<td><strong>MODLIN, Charles, M.D.</strong></td>
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<td>LICHTIN, Alan, M.D.</td>
<td>MONTAGUE, Karl Drago, M.D.</td>
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<td><strong>STEIN, Robert, M.D.</strong></td>
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<td>ALSHAHRANI, Saad, M.D.</td>
<td><strong>HEAVEY, Jonathan, M.D.</strong></td>
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<td><strong>Innovations</strong></td>
<td><strong>Internal Medicine</strong></td>
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<td>AYAZ, Ahmet, MSc.</td>
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<td>CUI, Zhihong, M.D.</td>
<td><strong>Internal Medicine</strong></td>
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<td>DURAIKANAYAGAM, Damayanthi, PhD.</td>
<td><strong>PATTIMAKIEL, Lynn, M.D.</strong></td>
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<td>McKENZIE, Margaret, M.D. FACOG</td>
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### External Preceptors

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<td>Cleveland Clinic Innovations, GCIC10</td>
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</tbody>
</table>
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<th>COLLEGE / UNIVERSITY</th>
<th>HOME</th>
<th>YEAR IN COLLEGE</th>
<th>START DATE</th>
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<tr>
<td>BOWEN, Stephen</td>
<td>Notre Dame</td>
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</table>
## June 10 – July 26, 2013

### Daily Schedule

**Mon 6/10/13**

**WEEK ONE**

<table>
<thead>
<tr>
<th>TIME</th>
<th>Activity/Faculty</th>
<th>Lecture Title</th>
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<tbody>
<tr>
<td>9:00AM – 11:00AM</td>
<td>Interns Appointment</td>
<td>ORIENTATION, Rm. LRI NA1–138 (7:00AM – 1:00PM)</td>
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<tr>
<td>11:00AM – 12:00PM</td>
<td>Syllabus &amp; Supplies</td>
<td>Issuance of Internship Syllabus and Supplies - Interns to Gather at Desk A19, Crile Building</td>
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<tr>
<td>12:00PM – 2:00PM</td>
<td>LUNCH BREAK</td>
<td>LUNCH BREAK</td>
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<tr>
<td>2:00PM – 3:30PM</td>
<td>Student and Staff Introduction</td>
<td>Student Mixer, Rm. NA5–08 / Amphitheater (12:00PM – 5:00PM)</td>
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<tr>
<td>3:00PM – 4:00PM</td>
<td>COFFEE BREAK</td>
<td>REFRESHMENTS</td>
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**Tue 6/11/13**

<table>
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<th>TIME</th>
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<th>Lecture Title</th>
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<tbody>
<tr>
<td>9:00AM – 10:15AM</td>
<td>Internship Checklist: Session 1</td>
<td>INTERNSHIP CHECKLIST, Rm. NA5–08 / Amphitheater / NA5–05 / ATRIUM (9:00AM – 4:00PM)</td>
</tr>
<tr>
<td>10:30AM – 12:00PM</td>
<td>Internship Checklist: Session 2</td>
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</tr>
<tr>
<td>12:00PM – 2:00PM</td>
<td>LUNCH BREAK</td>
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<tr>
<td>2:00PM – 3:00PM</td>
<td>COFFEE BREAK</td>
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**Wed 6/12/13**

**PRESENTATION BY INTERNSHIP MENTORS: DISCUSSION OF BENCH RESEARCH AND SCIENTIFIC WRITING PROJECTS, Rm. TT1–102 (7:00AM – 6:00PM)**

<table>
<thead>
<tr>
<th>TIME</th>
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<th>Lecture Title</th>
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<tbody>
<tr>
<td>8:00AM – 8:30AM</td>
<td>BREAK</td>
<td>BREAKFAST, Rm. TT1–102 (7:00AM – 6:00PM)</td>
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</tbody>
</table>

**Thu 6/13/13**

**LECTURES, Rm. TT1–100 (7:00AM – 1:00PM)**

<table>
<thead>
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<th>TIME</th>
<th>Lecture #</th>
<th>Activity/Faculty</th>
<th>Lecture Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00AM – 8:45AM</td>
<td>LECTURE 2</td>
<td>KIM BRADY, MSI</td>
<td>Library Resources</td>
</tr>
<tr>
<td>8:45AM – 9:30AM</td>
<td>LECTURE 3</td>
<td>AMY MOORE, BA</td>
<td>Ethical Issues in Publication: Authorship and Plagiarism</td>
</tr>
<tr>
<td>9:30AM – 10:15AM</td>
<td>LECTURE 4</td>
<td>MARGARET MCKENZIE, MD</td>
<td>Sexually Transmitted Infections</td>
</tr>
<tr>
<td>10:15AM – 11:00PM</td>
<td>LECTURE 5</td>
<td>STEFAN du PLESSIS, PhD</td>
<td>Introduction to Male Reproductive System</td>
</tr>
<tr>
<td>11:00AM – 11:45AM</td>
<td>LECTURE 6</td>
<td>SAJAL GUPTA, MD</td>
<td></td>
</tr>
<tr>
<td>11:45AM – 1:30PM</td>
<td>LUNCH BREAK</td>
<td></td>
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</tbody>
</table>
# SIXTH ANNUAL SUMMER INTERNSHIP COURSE: DAILY SCHEDULE

**June 10 - July 26, 2013**

**LAST UPDATED: MAY 24th, 2013**

<table>
<thead>
<tr>
<th>DAY</th>
<th>DATE</th>
<th>TIME</th>
<th>LECTURE #</th>
<th>ACTIVITY / FACULTY</th>
<th>LECTURE TITLE</th>
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<td><strong>PRESENTATION BY INTERNSHIP MENTORS:</strong> DISCUSSION OF SCIENTIFIC</td>
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<td><strong>WRITING PROJECTS,</strong> Rm. NA 5–24 (1:00PM – 6:00PM)</td>
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<td>Fri</td>
<td>6/14/13</td>
<td>8:00AM – 8:30AM</td>
<td>BREAKFAST</td>
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<td><strong>LECTURES,</strong> Rm. NA2–30 (7:00AM – 1:00PM)</td>
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<td>8:00AM – 8:45AM</td>
<td>LECTURE 7</td>
<td>JAMES YOUNG, MD</td>
<td>Top Medical Innovations at Cleveland Clinic: Past, Present and Future</td>
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<td>8:45AM – 9:30AM</td>
<td>LECTURE 8</td>
<td>JONATHAN HEAVEY, MD</td>
<td>Writing an Informative and Concise, Yet Interesting Title, Abstract and Introduction</td>
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<td>9:30AM – 10:15AM</td>
<td>LECTURE 9</td>
<td>AMY MOORE, BA</td>
<td>Spermatogenesis</td>
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<td>10:15AM – 11:00AM</td>
<td>LECTURE 10</td>
<td>RAKESH SHARMA, PhD</td>
<td>Appointment for Portrait Pictures: Pallavi Prashast, Mariya Pogrebetskaya, Rachel Thomas, Lindsay Trujillo, Tina Virk, Eva Tvrda. Art &amp; Photo Dept, Rm. NA1–127. Tel: (216) 444–2590</td>
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<td>11:00AM – 11:45AM</td>
<td>LECTURE 11</td>
<td>KAREN BAKER, MD</td>
<td>Q &amp; A</td>
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<td>11:45AM – 1:30PM</td>
<td>LUNCH BREAK</td>
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<td><strong>MATCH RESULTS OF PROJECT ANNOUNCEMENT of COMPUTERIZED MATCH RESULTS for BENCH RESEARCH and SCIENTIFIC WRITING PROJECTS,</strong> Rm. NA 5–24</td>
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<td><strong>FEMALE INFERTILITY MINI-SUMMIT,</strong> Rm. J2–602 (8:00AM – 4:00PM)</td>
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<td>Mon</td>
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<td>8:00AM – 8:45AM</td>
<td>LECTURE 12</td>
<td>ROBERT STEIN, MD</td>
<td>Robotic Surgery: Principles, Advantages &amp; Outcomes</td>
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<td>9:00AM – 9:45AM</td>
<td>LECTURE 13</td>
<td>STEFAN du PLESSIS, PHD RAKESH SHARMA, PhD ASHOK AGARWAL, PHD</td>
<td>So You Want To Do Research and Get Published</td>
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<td>10:00AM – 10:45AM</td>
<td>LECTURE 14</td>
<td>LYNN PATTIMAKIEL, MD</td>
<td>Menopause and Women's Health</td>
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<td>11:00AM – 11:45AM</td>
<td>LECTURE 15</td>
<td>AMY MOORE, BA</td>
<td>The Resources Available to Help Authors Write</td>
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<td>12:00PM – 12:45PM</td>
<td>LECTURE 16</td>
<td>SYLVIA MORRISON</td>
<td>Public Speaking Lecture Series 1</td>
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<td>8:00AM – 8:45AM</td>
<td>LECTURE 17</td>
<td>PETER BOTROS RIZK, MD</td>
<td>Initial Assessment of the Female</td>
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<td>9:00AM – 9:45AM</td>
<td>LECTURE 18</td>
<td>PETER BOTROS RIZK, MD</td>
<td>Pathology and Treatment of PCOS</td>
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<td>COFFEE BREAK</td>
<td>REFRESHMENTS</td>
<td><strong>BACKUP LECTURES</strong></td>
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<td>11:00AM – 11:45AM</td>
<td>LECTURE 19</td>
<td>PETER BOTROS RIZK, MD</td>
<td>Ultrasound in Infertility</td>
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<td>12:00PM – 12:45PM</td>
<td>LECTURE 20</td>
<td>PETER BOTROS RIZK, MD</td>
<td>Endometriosis - Associated Infertility</td>
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<td>1:30PM – 2:15PM</td>
<td>ANDROLOGY LAB</td>
<td>Overview of Andrology Laboratory Techniques (Group 1: Stephen Bowen, Dan Candrea, David Collins, Jana Gulumiyah, Samantha Gilmore, Jacques Halabi, Megan Hirschbeck, Ajoe Kattoor, David Lee, Chloe Ong), Desk A19, Crib Building</td>
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<td>1:30PM – 2:15PM</td>
<td>ANDROLOGY LAB</td>
<td>Overview of Andrology Laboratory Techniques (Group 2: Rohan Peer, Jason Peng, Pallavi Prashast, Mariya Pogrebetskaya, Rachel Thomas, Lindsay Trujillo, Tina Virk, Sebo Ling Wang, Sebo Michelle Wang), Desk A19, Crib Building 2:00PM Appointment for Portrait Pictures: Sebo Ling Wang, Sebo Michelle Wang. Art &amp; Photo Dept, Rm. NA1–127. Tel: (216) 444–2590</td>
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SIXTH ANNUAL
SUMMER INTERNSHIP COURSE: DAILY SCHEDULE
June 10 – July 26, 2013

### Lecture Title

**RESEARCH DAY**

**BREAKFAST**

**LUNCH BREAK**

**SELF STUDY**

**LUNCH BREAK**

**SELF STUDY**

**BREAKFAST**

**BREAKFAST**

**BREAKFAST**

### Lecture #

8:00AM – 8:30AM

9:00AM – 9:30AM

10:00AM – 10:45AM

11:00AM – 11:45AM

12:00PM – 12:45PM

1:30PM – 5:00PM

### Activity / Faculty

**RESEARCH UPDATE MEETING (MANDATORY)**

**Varicocele and Male Infertility**


**Sexuality, FSD and HSDD**

**Cell Phones, Laptops and I Pad: Relationship with Male Fertility – An Evidence Based Review**

**Introduction to Computational Biomodeling and Its Applications in Medicine**

**Seminars on Female Infertility - 1**

**Seminars on Female Infertility - 2**

**The Discovery That Changed the World of Reproduction: Oocyte Cryopreservation**

**Physiological Role of Reactive Oxygen Species in Sperm Function**

**Pathological Role of Reactive Oxygen Species in Male Infertility**

**Environmental Risk Factors Affecting Male Fertility**

**Face Transplant Surgery: Recent Advances**

**The 5 Worst Breakfast Foods**

**The 5 Worst Breakfast Foods**

**Feasible Treatments for Prostate Cancer**

**Face Transplant Surgery: Recent Advances**

**The 5 Worst Breakfast Foods**

**Feasible Treatments for Prostate Cancer**

**Face Transplant Surgery: Recent Advances**

### Time

**7:30AM – 9:00AM**

**8:00AM – 8:45AM**

**9:00AM – 9:45AM**

**10:00AM – 10:45AM**

**11:00AM – 11:45AM**

**12:00PM – 12:45PM**

**1:45PM – 2:30PM**

**2:30PM – 5:00PM**

**7:30AM – 9:00AM**

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**7:30AM – 9:00AM**

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**1:30PM – 5:00PM**

**7:30AM – 9:00AM**

**8:00AM – 8:45AM**

**9:00AM – 9:45AM**

### Day

**Fri 6/21/13**

**Mon 6/24/13**

**Wed 6/25/13**

**Tue 6/26/13**

**Thu 6/27/13**

**Fri 6/28/13**

**Mon 7/1/13**

**Tue 7/2/13**

**Wed 7/3/13**

**Thu 7/4/13**

**Fri 7/5/13**

### Week}

**WEEK THREE**

**WEEK FOUR**

**RESEARCH DAY, Rm. TT3 – 06, 09, 10**

**RESEARCH DAY, Rm. TT3 – 06, 09, 10**

**RESEARCH DAY, Rm. TT3 – 06, 09, 10**

**RESEARCH DAY, Rm. TT3 – 06, 09, 10**

**RESEARCH DAY, Rm. TT3 – 06, 09, 10**

**RESEARCH DAY, Rm. TT3 – 06, 09, 10**

**FOURTH OF JULY HOLIDAY**

**RESEARCH DAY**

**RESEARCH DAY**

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**RESEARCH DAY**
Week Five:

**Monday, July 8th, 2013**

- **8:00AM – 8:30AM**  Breakfast  
  - Location: Rm. Q1–202 CONF D

- **8:00AM – 8:45AM**  Lecture 44  
  - Title: Role of Institutional Review Board (IRB) in Research  
  - Instructor: Dr. Alan Lichtin

- **9:00AM – 9:45AM**  Lecture 45  
  - Title: Management of Erectile Dysfunction  
  - Instructor: Dr. Drogob Montague

- **10:00AM – 10:45AM**  Lecture 46  
  - Title: Proteomics and Its Role in Male Infertility  
  - Instructor: Dr. Damayantie Durairajananayagam

- **11:00AM – 11:45AM**  Lecture 47  
  - Title: Kidney Transplantation: Indications, Patient Preparation, Operative Technique and Postoperative Care  
  - Instructor: Dr. Charles Modlin

- **12:00PM – 12:45PM**  Lecture 48  
  - Title: An Introduction to Techniques Used in Molecular Genetic Research  
  - Instructor: Dr. Ahmet Ayaz

**Tuesday, July 9th, 2013**

- **8:00AM – 8:45AM**  Lecture 50  
  - Title: Are You As Young As You Can Be: Nuts and Bolts of Wellness  
  - Instructor: Dr. Michael Roizen

- **9:00AM – 9:45AM**  Lecture 51  
  - Title: Dialogues in Professionalism  
  - Instructor: Dr. J.Harry Isaacson

- **10:00AM – 10:45AM**  Lecture 52  
  - Title: Introduction to Glickman Urological and Kidney Institute  
  - Instructor: Dr. Eric Klein

- **12:00PM – 12:45PM**  Lecture 54  
  - Title: An Introduction to Techniques Used in Molecular Genetic Research  
  - Instructor: Dr. James Stoller

**Wednesday, July 10th, 2013**

- **8:00AM – 8:45AM**  Lecture 55  
  - Title: Public Speaking Lecture Series 2  
  - Instructor: Dr. Sylvia Morrison

**Thursday, July 11th, 2013**

- **9:00AM – 9:00PM**  Lecture 56  
  - Title: Cleveland Clinic Corporate Communication: Mission, Overview and Highlights  
  - Instructor: Dr. Angela Kiska

**Friday, July 12th, 2013**

- **8:00AM – 9:00AM**  Group Picture  
  - Location: In Front of the Crile Building

- **9:15AM – 9:30AM**  Breakfast  
  - Location: Rm. A8–800

- **10:00AM – 1:30PM**  Short PPT Presentations (5 min talk + 2 min Q & A)  
  - Group 2: Rohan Peer, Jason Peng, Pallavi Prashast, Mariya Progrebtskaya, Rachel Thomas, Lindsay Trujillo, Tina Virk, Sebo Ling Wang and Sebo Michelle Wang

**Saturday, July 13th, 2013**

- **6:30PM – 10:00PM**  Get Together at Agarwal Residence  
  - Location: Reception at Agarwal Residence (130 West Juniper Lane, Moreland Hills, OH 44022)
### SIXTH ANNUAL SUMMER INTERNSHIP COURSE: DAILY SCHEDULE

**June 10 – July 26, 2013**

**LAST UPDATED: MAY 24th, 2013**

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<tr>
<td>Fri</td>
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<td>8:00AM – 9:00AM</td>
<td>LECTURE 66</td>
<td>EDMUND SABANEH Jr, MD</td>
<td>Advances in Microsurgical Techniques in Male Infertility</td>
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<td>LECTURE 66</td>
<td>MARWAN HAMATY, MD</td>
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<td>9:00AM – 9:45AM</td>
<td>LECTURE 68</td>
<td>LINDA BRADLEY, MD</td>
<td>‘Let Food Be Thy Medicine’</td>
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<td>10:00AM – 10:45AM</td>
<td>LECTURE 69</td>
<td>JAMES MERLINO, MD</td>
<td>Evaluation and Enhancement of Patient Experience at Cleveland Clinic</td>
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<td>11:00AM – 1:00PM</td>
<td>LECTURE 70</td>
<td>KATHLEEN FRANCO, MD</td>
<td>Introduction and Tour of Lerner College of Medicine, NAS–08 (9:45AM – 12:30PM)</td>
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<td>Fri</td>
<td>7/26/13</td>
<td>8:00AM – 08:45AM</td>
<td>LECTURE 70</td>
<td>SCIENTIFIC PRESENTATIONS</td>
<td>A NOVEL STRUCTURED TREATMENT ALGORITHM INCORPORATING ROBOTIC MICROSURGERY FOR MEN WITH CHRONIC ORCHIALGIA/GROIN PAIN</td>
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<td>9:00AM – 10:30AM</td>
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<td>6:30PM – 7:15PM</td>
<td>SCIENTIFIC PRESENTATIONS</td>
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Note: Laptop needed in Q2, TT1 and NA1 buildings. Contact Media Services for help with A/V at 4-5140.
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<th>SN</th>
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<th>MENTOR</th>
<th>Type of Article</th>
<th>Journal/ Book</th>
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<td>1</td>
<td>THE EFFECTS OF OXIDATIVE STRESS ON MALE REPRODUCTION</td>
<td>Ashok Agarwal, PhD</td>
<td>Review</td>
<td>World Journal of Men's Health</td>
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<td>2</td>
<td>NUTRITIONAL SUPPLEMENTS FOR THE TREATMENT OF MALE INFERTILITY (CHAPTER OUTLINE)</td>
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<td>Chapter</td>
<td>Nutrition, Human Fertility and Reproductive Function</td>
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<td>3</td>
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<td>4</td>
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<td>Rakesh Sharma, PhD</td>
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<td>5</td>
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<td>TESTICULAR SPERM RECOVERY, PREPARATION AND CRYOPRESERVATION FOR AZOOSPERMIA AND ONCOTHERAPEUTIC INDICATIONS: A SYSTEMATIC REVIEW</td>
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<td>RECREATIONAL DRUGS AND ITS EFFECT ON MALE FERTILITY</td>
<td>Stefan Du Plessis, PhD</td>
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<td>9</td>
<td>CAFFEINE AND ITS EFFECT ON SPERM QUALITY</td>
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<td>10</td>
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<td>Stefan Du Plessis, PhD</td>
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<td>SEXUALLY TRANSMITTED INFECTIONS AND THE POSSIBLE EFFECT ON MALE FERTILITY</td>
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<td>FERTILITY STATUS OF MEN WITH MENTAL ILLNESS AND PSYCHOLOGICAL STRESS</td>
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SUMMER INTERNS 2013

Stephen Bowen
Dan Candrea
David Collins

Jana Ghulmiyyah
Samantha Gilmore
Jacques Halabi
Megan Hirschbeck

Ajobe Kattoor
David Lee
Chloe Ong
Rohan Peer

Jason Peng
Mariya Pogrebetskaya
Pallavi Prashast
Rachel Thomas

Lindsay Trujillo
Gurpriya Virk
Sebo Ling Wang
Sebo Michelle Wang