

ASA 2020 45TH ANNUAL MEETING


LOEWS PHILADELPHIA HOTEL • PHILADELPHIA, PENNSYLVANIA

APRIL 25-28, 2020



26.75 CME
CREDIT
HOURS

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EDUCATIONAL NEEDS

Recent reports from clinical studies, as well as basic and translational science advances, have significantly improved our understanding of male reproductive health. Urologists, male reproductive biologists, and translational scientists should be up to date on the latest research efforts and treatment recommendations regarding conditions such as regenerative medicine, bioengineering, reproductive technologies, and bioethics. Clinicians will benefit from learning about advances in diagnostic modalities and treatment options for azoospermia and other clinical conditions that affect male reproductive health. Academic researchers working in reproductive biology and cell biology will benefit from exposure to clinical problems and their management, their relatively high prevalence, and the need for an increased understanding of their underlying biology and genetics. A core aspect of this meeting aims to provide researchers and clinicians opportunities to engage in the productive collaboration. Updated reviews and panel discussions will help identify future targets for research and novel treatments in male reproductive medicine, as well as advances in the development of male contraceptives. A review of these topics will be very useful to urologists and other MDs with interests in andrology, male reproductive biologists, researchers, DVMs, and andrology trainees as well as andrology physician extenders, and laboratory professionals working in reproductive medicine.

LEARNING OBJECTIVES

- 1) Determine optimal sperm retrieval and reconstructive techniques for patients with obstructive azoospermia.
- 2) Identify high quality sperm from obstructive azoospermia patients.
- 3) Understand novel advances in bioengineering, sperm manipulation, and sperm physiology and metabolism.
- 4) Understand optimal clinical, laboratory, and surgical strategies for treating men with non-obstructive azoospermia.
- 5) Understand the bioethical and scientific considerations that exist with the utilization of genome editing methods for andrological conditions.
- 6) Understand how regulation of Sox9 expression determines gonadal fate.
- 7) Understand the multidisciplinary nature of caring for Klinefelter syndrome patients.
- 8) Identify the age-dependent alterations in meiotic recombinations that underlie sperm aneuploidies.
- 9) Discuss advances in spermatogenesis at the bench and moving toward clinical applications.
- 10) Understand the relationship between the immune environment of the testis and epididymis.
- 11) Appreciate the many functions of seminal plasma.
- 12) Understand the role of the epididymis in clinical outcomes involving assisted reproductive technologies.
- 13) Understand how sperm ion channels affect sperm functional properties.
- 14) Describe the role of CRISPR/Cas 9 in the study of fertilization.
- 15) Understand the emotional complexities of a man's experience of infertility.
- 16) Understand sperm oxidative stress regulation and its link to male fertility.
- 17) Describe the relationship between the environment and male reproductive health with respect to testicular dysgenesis syndrome and germ cell cancer.
- 18) Connect the dots between basic and translational science and opportunities in precision male reproductive medicine.
- 19) Characterize new targets in male contraception and understand the surgical role of vasectomy and vasectomy reversal.

ACCREDITATION

In support of improving patient care, Rush University Medical Center is jointly accredited by the American Nurses Credentialing Center (ANCC), the Accreditation Council for Pharmacy Education (ACPE), and the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing education for the healthcare team.

Rush University Medical Center designates this live activity for a maximum of 26.75 AMA PRA Category 1 Credit(s)[™]. Physicians should claim only credit commensurate with the extent of their participation in the activity.

MESSAGE FROM THE ASA PRESIDENT

On behalf of the American Society of Andrology, I welcome you to the 45th Annual Meeting at the Loews Philadelphia Hotel, Philadelphia, Pennsylvania, April 25–28, 2020! The theme of our program is *“Personalized Reproductive Medicine for the Male: From the Bench to the Bedside”*. I want to express my sincere gratitude to Program Committee co-chairs Polina Lishko, PhD, and James F. Smith, MD for assembling a dynamic and engaging program, and to all of the Committee members for working diligently to bring important current trend and thought leaders in Andrology to this meeting.

On Saturday, April 25th we have two special programs:

- **Andrology Lab Workshop:** *“Prognostic Values of Semen and Sperm Testing for Assisted Reproduction”* organized by Erma Drobniš, PhD
- **ASA Translational Symposium** incorporating the Basic Science Workshop and the Clinical Symposium *“Advances in Clinical and Laboratory Techniques for Obstructive and Non-Obstructive Azoospermia Patients”* moderated by James F. Smith, MD. A panel discussion on Science, Ethics, Law and Religious Beliefs will end the symposium.

The Annual Conference program opens on Saturday evening with the Emil Steinberger Memorial Lecture, *“The Regulation of Sox9 Expression in the Initiation and Maintenance of Gonadal Fate,”* presented by Robin Lovell-Badge, PhD, of The Francis Crick Institute, UK. The opening reception that follows is a chance to reconnect with our colleagues and make new friends.

Six half-day symposia showcase the diversity of andrology and highlight how basic science and clinical medicine can synergize to address fertility in males:

- *Testis Biology, Spermatogenesis, Steroidogenesis*
- *Contributions of Epididymis and Seminal Plasma to Fertility*
- *New Insights into Sperm Molecular Architecture and Function. What Makes a Fertile Sperm?*
- *Emotional Health and Male Infertility*
- *Addressing the Challenges in Male Fertility*
- *Male Contraception Landscape – New Targets and Approaches*

This year’s Diversity Lecture addresses Klinefelter Syndrome. The Women-in-Andrology Lecture is centered on the theme of the studying the fundamentals of cell signaling in Australia. The International Lecture focuses on CRISPR/Cas9 genome editing and its application in the study of fertilization while the American Urological Association Lecture brings it all together with a synthesis of Precision Medicine in Male Infertility.

In addition to invited speakers, the poster sessions and oral presentations chosen from the submitted abstracts will illustrate recent advances made by our attendees from the Americas and beyond. Key groups have scheduled luncheons with speakers to address their specialized interests. A mixer on Sunday evening is designed to facilitate networking among trainees and more senior professionals be they clinicians or basic scientists – all are invited!

The Annual Meeting is also our opportunity to celebrate three outstanding members. Congratulations to our **2020 Distinguished Andrologist** Vassilios Papadopoulos, DPharm, PhD, DSc (hon) and the **2020 Matthew P. Hardy – Young Andrologist Award** winner, James M Hotaling, MD, MS, FECSM. We are pleased that the **2020 Distinguished Service Award** will be presented to Doug Carrell, PhD, HCLD.

The conference is headquartered in the Loews Philadelphia Hotel, formerly the home of the Philadelphia Savings Fund Society. The hotel is listed as a National Historic Landmark and is located in Center City, near world-class restaurants, shopping, outstanding museums, and local transportation centers. Philadelphia is famous for the Declaration of Independence and The United States Constitution and served as the Nation’s first capitol. The Constitution Center and the new Museum of the American Revolution are just blocks away from the hotel. Take the opportunity to visit the Philadelphia Museum of Art and, if you are a fan of the boxing movies, have your picture taken with the statue of Rocky or run the steps of the museum. If you like Impressionist, Post-Impressionist, and Modernist masters, make certain to visit the Barnes Foundation. The Rodin Museum is next-door and houses a large collection of works by the famous sculptor. The famed Academy of Natural Sciences, the Franklin Institute (science museum), and the art museums are on or near the Benjamin Franklin Parkway. The Philly PHLASH is a quick, easy, and inexpensive shuttle bus to key Philadelphia historic attractions and cultural institutions located on its Downtown Loop, which stops directly in front of the hotel.

During the conference, please visit our exhibitors who bring us the latest in supplies and pharmaceuticals, and who provide generous support for our meeting. The Endowment and Development Committee table has opportunities for supporting our funds in many ways. I am especially grateful to all who have donated gifts this year; there is still time to help make our Annual Fund goal for 2019-2020.

I hope you will enjoy this exciting conference in the historic city of Philadelphia, where it is always sunny (except when it is not). I am certain you will learn much and will return home with new ideas and collaborations that will transform your research and clinical practice in Andrology.

Sincerely,



George L. Gerton, PhD
President, American Society of Andrology



SCHEDULE AT A GLANCE

FRIDAY, APRIL 24, 2020	
2:00 pm – 6:00 pm	Registration/Information Desk Open
SATURDAY, APRIL 25, 2020	
7:00 am – 7:00 pm	Registration/Information Desk Open
4:00 pm – 9:00 pm	Exhibits Open
8:30 am – 5:30 pm	ANDROLOGY LAB WORKSHOP Improving the Prognostic Value of Semen Analysis for Assisted Reproduction <i>*ABB Lab Accredited</i>
8:30 am	Continental Breakfast & Check-in
8:45 am	Prognostic Value of Semen Analysis in a Male Infertility Work-up Erma Drobnis, PhD, HCLD <i>University of Missouri School of Medicine</i>
9:15 am	EXERCISE 1: Troubleshooting CLIA Semen Analysis QC
9:45 am	CLIA Requirements for Semen Analysis QC Suresh Sikka, PhD, HCLD <i>Tulane University</i>
10:15 – 10:30 am	BREAK
10:30 am	EXERCISE 2: Troubleshooting Sources of Error
10:45 am	Sources of Error in Determining Sperm Count and Motility Erma Drobnis, PhD, HCLD <i>University of Missouri School of Medicine</i>
11:30 am	Prognostic Value of Sperm Morphology Susan Rothmann, PhD, HCLD <i>Fertility Solutions, Inc.</i>
12:00 pm	Lunch and Networking on Your Own
1:00 pm – 3:30 pm	SPERM MORPHOLOGY WORKSHOP
1:00 pm	EXERCISE 3: Morphology Classification Interactive Pre-Test
1:20 pm	Need for An Improved Morphology Algorithm Susan Rothmann, PhD, HCLD <i>Fertility Solutions, Inc.</i>
1:50 pm	Demonstration – Sperm Morphology Algorithm 101 Anna Bort, MLT (ASPC)CME <i>Fertility Solutions, Inc.</i>
2:30 pm	EXERCISE 4: Group Worked Examples
2:50 pm	EXERCISE 5: Morphology Post-Teaching Test
3:30 – 3:45 pm	BREAK
3:45 pm	EXERCISE 6: Cryopreserved Sperm – No Recovery, No Sperm, Handling the Vial at Various Temperatures
4:00 pm	Sperm Cryopreservation: Critical Temperatures During Cryopreservation Storage and Thawing Erma Drobnis, PhD, HCLD <i>University of Missouri School of Medicine</i>
4:30 pm	Challenges of Routine DNA Fragmentation Testing in the Andrology Laboratory Charles Muller, PhD, HCLD <i>University of Washington</i>
5:00 pm	ADJOURN

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ASA 45TH ANNUAL MEETING | APRIL 25 - 28, 2020

SATURDAY, APRIL 25, 2020

8:30 am – 4:30 pm	ASA TRANSLATIONAL SYMPOSIUM Advances in Clinical and Laboratory Techniques for Obstructive and Non-Obstructive Azoospermia Patients <i>Moderator: James Smith, MD, MS</i>
8:35 am – 9:45 am	OBSTRUCTIVE AZOOSPERMIA
8:30 am	Sperm Retrieval Techniques for Obstructive Azoospermia R. Matt Coward, MD <i>University of North Carolina</i>
8:50 am	How, Why, and When to Perform Vasopididymostomy James Kashanian, MD <i>Weill Cornell Medicine-Urology</i>
9:10 am	Sperm Selection and Considerations in Obstructive and Non-Obstructive Azoospermia Patients Ki Aston, PhD <i>University of Utah</i>
9:30 am	Discussion
9:45 am – 10:00 am	BREAK
10:00 am – 12:00 pm	ADVANCES IN ENGINEERING, SPERM MANIPULATION, AND SPERM METABOLISM. EMERGING TECHNOLOGIES IN MALE REPRODUCTIVE TRACT
10:00 am	On the Use of Optical Tweezers to Separate Sperm: A Forensics Application Joseph Reiner, PhD <i>Virginia Commonwealth University</i>
10:25 am	From Glowing Penis to Oocyte-Producing Testis: The Power of Mouse Genetics on Andrology Humphrey Yao, PhD <i>National Institute of Environmental Health Sciences (NIEHS/NIH)</i>
10:50 am	Novel Advances in Testicular Imaging – Shedding Light on Spermatogenesis Marc Spehr, PhD <i>RWTH Aachen University</i>
11:15 am	Healthy Sperm Selection with Magnetic Nanoparticles Jean M. Feugang, PhD <i>Mississippi State University</i>
11:40 am	Discussion
12:00 pm	Lunch on Your Own
1:00 pm – 3:35 pm	NON-OBSTRUCTIVE AZOOSPERMIA
1:00 pm	Clinical and Surgical Problems of Non-Obstructive Azoospermia Keith Jarvi, MD <i>Mount Sinai Hospital</i>
1:25 pm	Advances in Laboratory Techniques to Identify Sperm from Non-Obstructive Azoospermia Patients Tim Jenkins, PhD <i>University of Utah</i>
1:50 pm	Advances in Preoperative Planning Techniques to Identify High Quality Sperm Christopher Deibert, MD <i>University of Nebraska</i>
2:15 pm	Laboratory and Clinical Advances in Identification of Healthy Sperm James Hotaling, MD <i>University of Utah</i>
2:40 pm	High-Throughput Mouse Genome Editing Using CRISPR-EZ and CRISPR-READI Sean Chen, PhD <i>University of California, Berkeley</i>
3:05 pm	Discussion
3:35 pm – 4:00 pm	BREAK
4:00 pm – 5:30 pm	PANEL DISCUSSION AND MINI-SYMPOSIUM: SCIENCE, ETHICS, LAW AND RELIGIOUS BELIEFS Panelists: Robin Lovell-Badge, PhD – <i>The Francis Crick Institute, UK</i> Kyle Orwig, PhD – <i>University of Pittsburgh</i> Keith Jarvi, MD – <i>Mount Sinai Hospital</i> Steven Joffe, MD, MPH – <i>University of Pennsylvania</i>
5:30 pm	Translational Symposium Adjourns

SATURDAY, APRIL 25, 2020

ASA 45TH ANNUAL MEETING

Personalized Reproductive Medicine for the Male: From Bench to Bedside

Program Chairs: Polina V. Lishko, PhD and James Smith, MD, MS

6:00 pm – 6:20 pm

ASA PRESIDENT'S WELCOME AND OPENING REMARKS

George L. Gerton, PhD

ASA President

6:20 pm – 7:30 pm

EMIL STEINBERGER MEMORIAL LECTURE:

The Regulation of Sox9 Expression in the Initiation and Maintenance of Gonadal Fate

Sponsored by the Emil Steinberger Endowment Fund

Introducer: George L. Gerton, PhD, University of Pennsylvania

Speaker: Robin Lovell-Badge, PhD, The Francis Crick Institute, UK

7:30 pm – 9:00 pm

ASA WELCOME RECEPTION

SUNDAY, APRIL 26, 2020

6:30 am – 8:00 am

Past President's Breakfast

6:30 am – 6:30 pm

Registration/Information Desk Open

7:00 am – 8:00 am

Exhibits Open

7:00 am – 8:00 am

Continental Breakfast in Exhibit Hall

8:00 am – 8:10 am

ASA Distinguished Andrologist Award

Sponsored by the Eugenia Rosemberg Endowment Fund *Not CME Accredited

Introducer: Barry Zirkin, PhD, Johns Hopkins University

Recipient: Vassilios Papadopoulos PharmD, PhD, University of Southern California School of Pharmacy

8:10 am – 8:20 am

ASA Distinguished Service Award

Sponsored by the ASA Past Presidents Endowment Fund *Not CME Accredited

Introducer: Rex Hess, PhD, University of Illinois

Recipient: Douglas Carrell, PhD HCLD, University of Utah School of Medicine

8:20 am – 8:30 am

Trainee Travel Awards *Not CME Accredited

8:30 am – 9:40 am

DIVERSITY LECTURE:

Impacting eXtraordinary: Klinefelter Syndrome at the Intersection of Research, Clinical Care and Community

Sponsored by the ASA Educational Endowment Fund

Introducer: Carol Meerschaert, Executive Director of AXYS

Speaker: Susan Howell, MS, CGC, MBA, Children's Hospital Colorado

9:40 am – 11:00 am

Poster Session I *Not CME Accredited

11:00 am – 1:15 pm

SYMPOSIUM I:

Testis Biology, Spermatogenesis, Steroidogenesis

Moderators: Jean-Ju Chung, PhD, Yale School of Medicine

Ru-pin Chi, PhD, National Institute of Environmental Health Sciences

11:00 am

Age-Dependent Alterations in Meiotic Recombination Underlie Sperm Aneuploidies in Mice and Men

Francesca Cole, PhD, University of Texas MD Anderson Cancer Center

11:30 am

Probing Testis-Specific Gene Expression Through the Generation of Single Regulatory Element-Specific Mutations in the Mouse

Robert S. Viger, PhD, Laval University

12:00 pm

In Vitro Spermatogenesis, Bench to Bedside

Nam D. Tran, MD, PhD, HCLD, Spring Fertility

12:30 pm

The Immune Environment of the Testis and Epididymis: From Bed to Bench and Back

Andreas Meinhardt, PhD, Justus-Liebig-University Giessen, Germany

1:00 pm

Oral Presentation

1:15 pm – 2:15 pm

Lunch on Your Own

SUNDAY, APRIL 26, 2020	
1:15 pm – 2:15 pm	MENTORING LUNCHEON: Preventing Sexual Harassment in Higher Education Panel Discussion Sponsored by the Diversity and Trainee Affairs Committees TBD TBD
1:15 pm – 2:15 pm	Editorial Board Luncheon
2:15 pm – 4:30 pm	SYMPOSIUM II: Contributions of Epididymis and Seminal Plasma to Fertility Moderators: Humphrey Yao, PhD, <i>National Institute of Environmental Health Sciences (NIEHS/NIH)</i> Lis Puga Molina, PhD, <i>Washington University School of Medicine</i>
2:15 pm	The Pleiotropic Effects of Seminal Plasma Nadia Roan, PhD, <i>University of California at San Francisco</i>
2:45 pm	Novel Role for Epididymal Clear Cells in Sperm Maturation and Mucosal Immunity Sylvie Breton, PhD, <i>Massachusetts General Hospital / Harvard Medical School</i>
3:15 pm	Does Sperm Retrieval from Epididymis Negatively or Positively Affect IVF/ICSI Outcomes? James Kashanian, MD, <i>Weill Cornell Medicine-Urology</i>
3:45 pm	Sperm MicroRNAs Acquired During Epididymal Passage Transmit Epigenetic Information to Offspring Colin Conine, PhD, <i>Pennsylvania Perelman School of Medicine and Children's Hospital of Philadelphia</i>
4:15 pm	Oral Presentation
4:30 pm – 4:50 pm	BREAK
4:50 pm – 7:20 pm	SYMPOSIUM III: New Insights into Sperm Molecular Architecture and Function. What Makes a Fertile Sperm? Moderators: Polina Lishko, PhD, <i>University of California, Berkeley</i> TBD, TBD
4:50 pm	Sperm Ca²⁺ Signaling Nanodomains Jean-Ju Chung, PhD, <i>Yale School of Medicine</i>
5:20 pm	Genetic Defects in Sperm Flagella Beat Generation and Regulation Heymut Omran, MD, <i>Münster University Hospital, Germany</i>
5:50 pm	Chloride Channels in Sperm Physiology Alberto Darszon, PhD, <i>Universidad Nacional Autonoma de Mexico</i>
6:20 pm	Capacitated Sperm Develop Hyperactivated Motility and Undergo Acrosomal Exocytosis. And Then What? Mariano Buffone, PhD, <i>Instituto de Biología y Medicina Experimental, Argentina</i>
6:50 pm	Oral Presentation
7:05 pm	Oral Presentation
7:20 pm – 9:00 pm	Clinical/Basic/Trainee Mixer Sponsored by Program Committee & Trainee Affairs Committee



SCHEDULE AT A GLANCE

MONDAY, APRIL 27, 2020	
6:30 am – 6:00 pm	Registration/Information Desk Open
7:00 am – 3:30 pm	Exhibits Open
7:00 am – 8:00 am	Continental Breakfast in Exhibit Hall
8:00 am – 9:00 am	WOMEN IN ANDROLOGY LECTURE: Fundamentals of Cell Signaling Down Under <i>Sponsored by the Women in Andrology Endowment Fund</i> Introducer: WIA Chair, Martine Culty, PhD, University of Southern California Speaker: Kate Loveland, PhD, Monash University and Hudson Institute of Medical Research, Australia
9:00 am – 9:15 am	BREAK
9:15 am – 9:30 am	Matthew P. Hardy Young Andrologist Award <i>Sponsored by the Matthew P. Hardy Endowment Fund *Not CME Accredited</i> Introducer: Craig Niederberger, MD, University of Illinois at Chicago Recipient: James Hotaling, MD, University of Utah
9:30 am – 9:40 am	Outstanding Trainee Investigator and Trainee Awards *Not CME Accredited
9:40 am – 10:40 am	INTERNATIONAL LECTURE: CRISPR/Cas9 Genome Editing and its Application in the Study of Fertilization <i>Sponsored by the ASA General Endowment</i> Introducer: Patricia Cuasnicu, PhD, Instituto de Biología y Medicina Experimental Speaker: Masahito Ikawa, PhD, Osaka University, Japan
10:40 am – 12:00 pm	Poster Session II *Not CME Accredited
12:00 pm – 1:30 pm	Lunch on Your Own
12:00 pm – 1:30 pm	WOMEN IN ANDROLOGY LUNCHEON “Transitioning from Trainee to Faculty: Tips from the Trenches (and Benches)” <i>Sponsored by the Women in Andrology Committee *Not CME Accredited</i> Host: Martine Culty, PhD, University of Southern California
1:30 pm – 3:00 pm	SYMPOSIUM IV: Emotional Health and Male Infertility Moderators: Jennifer R. Hughes, PhD, University of Illinois, Urbana-Champaign Maxwell Edmonds, Northwestern Medicine Feinberg School of Medicine
1:30 pm	A 200 Pound Weight: Emotions and Men’s Experiences of Infertility Ann V. Bell, PhD, University of Delaware
1:50 pm	Complexities and Caveats in Men’s Health Help-seeking John Oliffe, PhD, RN, University of British Columbia
2:20 pm	Upstream Determinants, Self-Care, and Infertility: Possible Links Michael Rovito, PhD, CHES, FMHI, University of Central Florida
2:50 pm	Panel Discussion
3:00 pm – 3:20 pm	BREAK

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ASA 45TH ANNUAL MEETING | APRIL 25 - 28, 2020

MONDAY, APRIL 27, 2020

3:20 pm – 5:20 pm	SYMPOSIUM V: Addressing the Challenges in Male Fertility Moderators: Marc Spehr, PhD, <i>Ruhr-Universitaet Bochum</i> TBD, TBD
3:20 pm	Sperm Signaling in ART and Science Pablo Visconti, PhD, <i>University of Massachusetts</i>
3:50 pm	Understanding the Sperm Redox Regulation to Tackle Male Infertility Cristian O'Flaherty, DVM, PhD, <i>McGill University, Canada</i>
4:20 pm	Testicular Dysgenesis Syndrome, Germ Cell Cancer and Environment Niels Erik Skakkebaek, MD, PhD, <i>University of Copenhagen, Denmark</i>
4:50 pm	Oral Presentation
5:05 pm	Oral Presentation
5:20 pm – 7:00 pm	ASA ANNUAL BUSINESS MEETING
7:30 pm – 12:00 pm	ASA ANNUAL BANQUET

TUESDAY, APRIL 28, 2020

7:00 am – 8:00 am	2021 Program Committee Meeting
7:00 am – 12:30 pm	Registration/Information Desk Open
7:00 am – 8:00 am	Continental Breakfast
8:00 am – 9:00 am	AUA LECTURE: Bringing it All Together: Precision Medicine in Male Infertility Sponsored by the AUA Educational Grant Introducer: James Smith, MD, MS, <i>University of California, San Francisco</i> Speaker: Kathleen Hwang, MD, <i>University of Pittsburgh School of Medicine</i>
9:00 am – 9:15 am	Poster Awards
9:15 am – 9:30 am	BREAK
9:30 am – 12:00 pm	SYMPOSIUM VI: Male Contraception Landscape - New Targets and Approaches Moderators: Alexander Travis, VMD, PhD, <i>Cornell University</i> Jennifer R. Hughes, PhD, <i>University of Illinois, Urbana-Champaign</i>
9:30 am	Funding and Commercialization Panel Daniel Johnston, PhD, <i>National Institutes of Health</i> Logan Nickels, <i>Male Contraception Initiative</i> Heather Vahdat, <i>Male Contraception Initiative</i>
10:15 am	Recent Progress in the Discovery and Development of Non-Hormonal Male Contraceptive Agents Gunda Georg, PhD, <i>University of Minnesota</i>
10:45 am	Vasectomies and Vasectomy Reversals Mary Samplaski, MD, <i>University of Southern California</i>
11:15 am	SLO3 Potassium Channel: A Novel Contraceptive Target Celia M Santi, MD, PhD, <i>Washington University School of Medicine</i>
11:45 am	Oral Presentation
12:00 pm – 12:15 pm	Closing Remarks / 46th ASA Meeting 2021 Highlights President Michael Palladino, MD, PhD, and 2021 Program Committee Co-Chairs Jon Oatley, PhD and Jim Hotaling, MD, MS, FECSM



ACCOMMODATIONS

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We believe that when people travel they want good old-fashioned service combined with the newest amenities. So at Loews Philadelphia you'll find the perfect balance of both—and that includes 581 freshly renovated rooms and suites. And while our service is top drawer, it's never intrusive. That makes us the perfect option of any luxury hotel in Philadelphia when traveling for business or leisure. Here, when the temperature dips below freezing, you can still take a dip in our heated indoor lap pool.

Booking Code:	Amer Soc of Andrology
Direct Booking Link:	https://book.passkey.com/event/49832148/owner/4127/hom9
Hotel Block Dates:	Thursday, April 23 - Tues April 29, 2020
Hotel Block Reservation Cut-Off:	April 1, 2020 at 5pm
Deluxe Double/Double Room:	\$249*
Deluxe King:	\$229*
Luxury Double/ Double of King:	\$299*

NIH Government Room Rate: Complimentary Wi-Fi in every guest room—and in public spaces. Loews Philadelphia Hotel has offered a limited number of rooms at the US Government rate for attendees that meet the criteria to receive the government discounted rate. Contact: tania@veritasmeetingsolutions.com.

*Excludes taxes and fees

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Register for the ASA 45th Annual Meeting online at andrologysociety.org.

REGISTRATION FEES (Includes Translational Symposium)

REGISTRATION TYPE	ON OR BEFORE 3/31/2020	AFTER 3/31/2020
ASA Member	\$460.00	\$520.00
ASA Emeritus Member	\$85.00	\$85.00
ASA Trainee Member	\$160.00	\$185.00
Non-Member	\$660.00	\$720.00
Non-Member Student/Trainee	\$260.00	\$285.00
Industry Medical Science Liaison	\$720.00	\$720.00
Industry Employee Whose Company is NOT Already Supporting ASA	\$885.00	\$885.00

Optional Events	ASA Member	ASA Emeritas Member	Non-Member	ASA Trainee Member	Non-Member Student/Trainee
Andrology Lab Workshop Saturday, April 25, 2020	\$450	\$450	\$475	\$450	\$475
Translational Symposium Only Saturday, April 25, 2020	\$75	\$75	\$75	\$50	\$50
Mentoring Luncheon Sunday, April 26, 2020	\$45	\$45	\$45	\$25	\$25
Women in Andrology Luncheon Monday, April 27, 2020	\$45	\$45	\$45	\$25	\$25
ASA Annual Banquet Monday, April 27, 2020	\$80	\$80	\$80	\$40	\$40

CANCELLATION POLICY: If written notice of cancellation is received by March 31, 2020, any registration fees paid, minus a \$100.00 administrative fee, will be refunded after the meeting. No refunds will be issued after this date. All cancellation requests should be emailed to caitlin@veritasmeetingsolutions.com.

PAYMENT METHOD (USD Funds Only)

Check Enclosed (make checks payable to American Society of Andrology) \$ _____

Credit Card: Visa MasterCard Discover American Express \$ _____

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Please list any dietary restrictions: _____

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This Event may be video recorded. If you would like to opt out of being video recorded, please indicate that below and notify the registration desk upon check in: Agree with being video recorded Disagree with being video recorded

Please indicate if it is ok to have your name appear on a list of registered attendees: Yes No

For privacy protection we require your authorization to include your name, institution, city, state and country on the meeting participant listing that will be distributed to attendees at the meeting. (We do not release email addresses). Yes, I would like to be included No, do not include my information

ASA ANNUAL DINNER

JOIN US FOR DINNER AND DANCING AT THE READING TERMINAL MARKET

The Reading Terminal Market is one of America's largest and oldest public markets, housed since 1893 in a National Historic Landmark building. Typically the market boasts an incredible selection of locally grown & exotic produce, locally sourced meats and poultry, plus the finest seafood, cheeses, baked goods, and confections in a colorful maze of shops and store fronts. **For this evening, the Reading Terminal will be closed to the public and will exclusively house the American Society of Andrology Annual Dinner.**

In addition to offering various food selections, that will feature iconic Philadelphia specialties and other delectable gastronomies, **the event will feature Philadelphia's own Bachelor Boys Band!** This high energy band is sure to delight and get everyone on the dance floor with their set list that includes hits from the 60's to present day. Be sure to get your tickets today for what is sure to be a festive evening of networking, dinner and dancing.



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APRIL 27, 2020

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