

ANDROLOGY

APRIL 2014 VOLUME 2 SUPPLEMENT 1

Abstracts from the 39th American Society of
Andrology Annual Meeting
5 – 8 April 2014
Atlanta, Georgia

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WILEY Blackwell

SCHEDULE AT A GLANCE

ASA 39th Annual Conference
April 5 – 8, 2014

ASA Basic Science Workshop
 April 5, 2014

Andrology Lab Workshop
 April 5, 2014

ASA Special Symposium
 April 5, 2014

ASA 39th Annual Conference
“Andrology: Where Are We and Where Are We Going?”
April 5 – 8, 2014
InterContinental Buckhead Atlanta
Atlanta, Georgia
 Program Chairs: Robert E. Brannigan, MD and Barry R. Zirkin, MD
Location: Windsor Ballroom C-E

FRIDAY, APRIL 4, 2014

2:00 p.m. – 6:00 p.m. **Registration/Information Desk Open**
Location: Windsor Pre-Function Area

SATURDAY, APRIL 5, 2014

7:30 a.m. – 7:30 p.m. **Registration/Information Desk Open**
Location: Windsor Pre-Function Area

4:00 p.m. – 9:30 p.m. **Exhibit Hall Open**
Location: Windsor Ballroom AB

8:30 a.m. - 4:00 p.m. **ASA Basic Science Workshop**
(See pg. 27 for full schedule)

9:00 a.m. - 5:00 p.m. **ASA Andrology Lab Workshop**
(See pg. 28 for full schedule)

1:00 p.m. - 5:15 p.m. **ASA Special Symposium**
(See pg. 29 for full schedule)

5:30 p.m. – 5:40 p.m. **Welcome and Opening Remarks**

5:40 p.m. – 6:00 p.m. **Updates from NICHD & NIEHS: Where Are We and Where Are We Going?**
Stuart B. Moss, PhD
NICHD
Thaddeus T. Schug, PhD
NIEHS

6:00 p.m. – 6:20 p.m.

6:20 p.m. – 6:30 p.m.

6:30 p.m. – 7:30 p.m.

7:30 p.m. – 9:30 p.m.

SUNDAY, APRIL 6, 2014

6:30 a.m. – 8:00 a.m.

6:30 a.m. – 6:30 p.m.

7:00 a.m. – 4:00 p.m.

7:00 a.m. – 8:00 a.m.

8:00 a.m. – 9:00 a.m.

9:00 a.m. – 9:15 a.m.

9:15 a.m. – 10:45 a.m.

Distinguished Andrologist Award

Centers for Disease Control and Prevention Welcomes ASA to Atlanta

Hubert Vesper, PhD
National Center for Environmental Health

EMIL STEINBERGER MEMORIAL LECTURE

iPS Cell Technology and Disease Research: Issues to be Resolved
Rudolf Jaenisch, MD

Massachusetts Institute of Technology
(Introduced by Erwin Goldberg, PhD)

Welcome Reception

Location: Windsor Ballroom AB

Past President’s Breakfast

Location: Trippe 1

Registration/Information Desk Open

Location: Windsor Pre-Function Area

Exhibit Hall Open

Location: Windsor Ballroom AB

Continental Breakfast in Exhibit Hall

Location: Windsor Ballroom AB

AUA LECTURE

Controversies in Vasectomy and Vasectomy Reversal

Jay I. Sandlow, MD
Medical College of Wisconsin
(Introduced by Robert E. Brannigan, MD)

Distinguished Service Award

SYMPOSIUM I – Stem Cells in the Male Reproductive Tract

Co-chairs: Marie-Claude Hofmann, PhD
Makoto Nagano, PhD, DVM

SCHEDULE AT A GLANCE

SUNDAY, APRIL 6, 2014 (*continued*)

	<p>Unraveling Signaling Pathways Controlling Gonocyte Differentiation <i>Martine Culty, PhD</i> <i>McGill University</i></p>	2:00 p.m. – 3:30 p.m.	<p>Oral Session II: Human Spermatogenesis: Novel Findings in 2014 <i>Location: Hope</i> <i>Moderators: Dolores J. Lamb, PhD</i> <i>Kyle Orwig, PhD</i></p>
	<p>Regulation of Spermatogonial Stem Cells in the Adult Testis <i>William Wright, PhD</i> <i>Johns Hopkins Bloomberg School of Public Health</i></p>	3:30 p.m. – 4:00 p.m.	<p>Break <i>Location: Windsor AB</i></p>
	<p>Human and Non-Human Primate Stem Cells <i>Kyle Orwig, PhD</i> <i>University of Pittsburgh School of Medicine</i></p>	4:00 p.m. – 4:45 p.m.	<p>LECTURE I What's Good for the Spermatogonial Stem Cell May Be Bad for the Offspring: Advantageous Mutations that Increase the Incidence of Human Disease <i>Norman Arnheim, PhD</i> <i>University of Southern California</i> <i>(Introduced by Mary A. Handel, PhD)</i></p>
10:45 a.m. – 11:00 a.m.	<p>Break <i>Location: Windsor Ballroom AB</i></p>		
11:00 a.m. – 12:30 p.m.	<p>Poster Session I <i>Location: Venetian</i></p>	4:45 p.m. – 5:30 p.m.	<p>LECTURE II Novel Spermatogenic Pathways and Male Contraception <i>Martin M. Matzuk, MD, PhD</i> <i>Baylor College of Medicine</i> <i>(Introduced by Jacquetta M. Trasler, MD, PhD)</i></p>
12:30 p.m. – 2:00 p.m.	<p><u>MENTORING LUNCHEON</u> <u>SPONSORED BY THE DIVERSITY AND TRAINEE AFFAIRS COMMITTEES</u> Embarking on a Scientific Career: Combining Administrative, Teaching and Clinical Responsibilities <i>Location: Trippe 1</i> <i>William J. Bremner, MD, PhD</i> <i>University of Washington</i> <i>(Introduced by Peter Liu, MBBS, PhD)</i> <i>*Not included in registration fee; ticket required</i></p>	5:30 p.m. – 6:15 p.m.	<p><u>SYMPOSIUM – Updates from the Centers for Disease Control and Prevention: Progress in Male Reproductive Health</u> <i>Moderator: Steven M. Schrader, PhD</i> <i>National Institute for Occupational Safety and Health, CDC</i></p>
12:30 p.m. – 2:00 p.m.	<p>Editorial Board Luncheon</p>		<p>Insights Gained from CDC Surveys and Initiatives <i>Lee Warner, PhD</i> <i>National Center for Chronic Disease Prevention and Health Promotion, CDC</i></p>
12:30 p.m. – 2:00 p.m.	<p>Lunch On Your Own</p>		
2:00 p.m. – 3:30 p.m.	<p><u>CONCURRENT ORAL SESSIONS</u> Oral Session I: Molecular and Environmental Regulation of Male Reproductive Health <i>Location: Windsor C - E</i> <i>Moderators: Kate Loveland, PhD</i> <i>Jacquetta M. Trasler, MD, PhD</i></p>		<p>CDC's Hormone Standardization Program: A Focus on Testosterone <i>Hubert Vesper, PhD</i> <i>National Center for Environment Health, CDC</i></p>

SCHEDULE AT A GLANCE

	Discussion: Potential Collaboration with Academic Programs and National Organizations	11:15 a.m. – 12:30 p.m.	Poster Session II <i>Location: Venetian</i>
6:30 p.m. – 8:30 p.m.	Trainee Forum and Mixer (All Trainee Travel Awards will be distributed and celebrated at this event) <i>Location: Windsor Garden</i>	12:30 p.m. – 1:45 p.m.	<u>WOMEN IN ANDROLOGY LUNCHEON AND DISCUSSION</u> What Successful Women Do Differently: Learning To Embrace Failure and To Take Risks <i>Location: Trippe</i> <i>Moderator: Sophie La Salle, PhD</i> <i>*Not included in registration; ticket required</i>
<u>MONDAY, APRIL 7, 2014</u>			
7:00 a.m. – 6:00 p.m.	Registration/Information Desk Open <i>Location: Windsor Pre-Function Area</i>	1:45 p.m. – 3:15 p.m.	<u>SYMPOSIUM III Spermatogenesis, Post-Testicular Sperm Maturation and Male Fertility</u> <i>Co-Chairs: Gail A. Cornwall, PhD</i> <i>Kenneth P. Roberts, PhD</i>
7:00 a.m. – 8:00 a.m.	Continental Breakfast <i>Location: Windsor Foyer</i>		
8:00 a.m. – 9:00 a.m.	<u>WOMEN IN ANDROLOGY LECTURE</u> Hormone Signaling and Reprogramming in Human Prostate Stem Cells <i>Gail S. Prins, PhD</i> <i>University of Illinois at Chicago (Introduced by Donna L. Vogel, MD, PhD)</i>		Qualitative and Quantitative Aspects of the Hormonal Control of Spermatogenesis Revisited <i>Ippo Huhtaniemi, MD, PhD, FMed Sci</i> <i>Imperial College, London</i>
9:00 a.m. – 9:15 a.m.	Young Andrologist Award		Ca²⁺ and cAMP Signaling Cross-talk During Sperm Capacitation <i>Pablo E. Visconti, PhD</i> <i>University of Massachusetts</i>
9:15 a.m. – 10:15 a.m.	<u>SYMPOSIUM II – Would You Give This Man Testosterone? Case-Based Discussions</u> <i>Moderators: Christina Wang, MD</i> <i>Stephanie T. Page, MD, PhD</i> <i>J. Lisa Tenover, MD, PhD</i> <i>VA Palo Alto Health Care System</i> <i>Peter N. Schlegel, MD</i> <i>The New York Weill/Cornell Medical Ctr.</i>	3:15 p.m. – 3:30 p.m.	Aging Affects Germ Cells: From Genes to Fertility <i>Bernard Robaire, PhD</i> <i>McGill University</i>
10:15 a.m. – 10:30 a.m.	Break <i>Location: Windsor Foyer</i>	3:30 p.m. – 4:15 p.m.	Break <i>Location: Windsor Foyer</i>
10:30 a.m. – 11:15 a.m.	<u>DIVERSITY LECTURE</u> Disparities in Men's Health: The Role of the Primary Care Physician <i>Charles S. Modlin, MD</i> <i>Cleveland Clinic Foundation, Minority Men's Health Center (Introduced by George L. Gerton, PhD)</i>		<u>LECTURE III:</u> The Stress Hormone Corticotropin-Releasing Factor Acts in the Brain and the Testes to Regulate Testosterone Secretion <i>Catherine Rivier, PhD</i> <i>The Salk Institute for Biological Studies</i> <i>(Introduced by Vassilios Papadopoulos, PhD)</i>

4:15 p.m. – 5:00 p.m. **LECTURE IV:
Pharmacological Regulation of
Steroid Biosynthesis: From Testis
to Brain**
*Vassilios Papadopoulos, PhD
The Research Institute of the Mc
Gill University Health Centre
(Introduced by Catherine Rivier,
PhD)*

5:00 p.m. – 6:00 p.m. **ASA Business Meeting
Outstanding Trainee Investigator
and Trainee Awards**

7:30 p.m. – 11:00 p.m. **Annual Banquet**
*Location: Atlanta Event Center at
Opera
Buses depart from hotel lobby
starting at 6:45 p.m.
*Not included in registration fee;
ticket required*

TUESDAY, APRIL 8, 2014

7:00 a.m. – 8:00 a.m. **2015 Program Committee Meeting**
Location: Hope

7:00 a.m. – 12:00 p.m. **Registration/Information Desk
Open**
*Location: Windsor Pre-Function
Area*

7:00 a.m. – 8:00 a.m. **Continental Breakfast**
Location: Windsor Foyer

8:00 a.m. – 9:15 a.m. **SYMPOSIUM IV – PSA and
Prostate Cancer Debate: Is PSA
Screening A Rational Approach?**
*Moderators: Gail S. Prins, PhD
Arthur L. Burnett, II,
MD*

*William J. Catalona, MD
Northwestern University
Timothy Wilt, MD
University of Minnesota School
of Medicine
Herbert B. Carter, MD
Johns Hopkins Hospital*

9:15 a.m. – 10:15 a.m. **INTERNATIONAL LECTURE:
Pharmacogenetics of FSH**
*Manuela Simoni, MD, PhD
University of Modena and Reggio
Emilia, Italy
(Introduced by Patricia S. Cuasnicu,
PhD)*

10:15 a.m. – 10:30 a.m. **Break**
Location: Windsor Foyer

10:30 a.m. – 12:00 p.m. **SYMPOSIUM V – Innovations in
Male Environmental Health
Protection**
*Co-Chairs: Sally Perreault
Darney, PhD
Bernard Robaire, PhD*

**Revolution in Toxicity Testing and
Risk Prediction for Chemicals in
the Environment**
*Thomas Knudsen, PhD
US Environmental Protection
Agency*

**Response of Human Fetal Testis
Xenotransplants to Environmental
Toxicants: Implications for Risk
Assessment**
*Kim Boekelheide, MD, PhD
Brown University*

**Translation of the Science in Male
Reproductive and Environmental
Health for Evidence-Based Deci-
sions by Clinicians, Regulators and
the Public**
*Paula I. Johnson, PhD
University of California, San
Francisco*

MEETING ADJOURNED

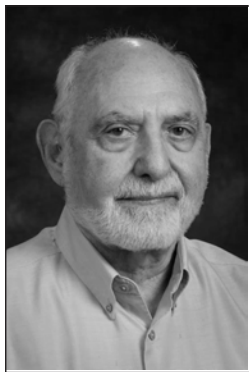
Disclaimer Statement

Statements, opinions and results of studies contained in the program are those of the presenters/authors and do not reflect the policy or position of the ASA no does the ASA provide any warranty as to their accuracy or reliability.

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PRESIDENT'S WELCOME



It is my pleasure to welcome everyone to the 39th Annual Meeting of the American Society of Andrology, entitled "Andrology: Where Are We and Where Are We Going?" The query is even more compelling in this era of constraints on funding for basic research. Limitations on basic research impact not only men's health, but the health and well-being of males of all species. We will hear about the state of the funding landscape at the very start of our sessions. We are meeting in Atlanta, Georgia which has been

described as the "capital city of the Southeast, a city of the future with strong ties to its past". I like to think of ASA in those terms, a society of the future with a distinguished heritage of past achievements in animal and men's health. This is consistent with the mission of the Society, to advance discovery and education in male reproductive health through the integration of basic and clinical sciences and scientists. This mission is clearly the intent of the 39th Annual Meeting. The Program Co-Chairs, Barry Zirkin, PhD (Johns Hopkins Bloomberg School of Public Health) and Robert Brannigan, MD (Northwestern University) have assembled cutting edge and timely symposia and lectures blending basic and clinical research. The Program is seamless in that respect, which means that we will not find it easy to miss a session based on its being labeled "clinical" or "basic". The Program begins at the beginning with the cell. The Emil Steinberger Memorial Lecture, "iPS Cell Technology and Disease Research: Issues to be Resolved", will be presented by a pioneer in stem cell biology, Professor Rudolf Jaenisch (MIT). There are Major Symposia on stem cells in the male reproductive tract; testosterone replacement; spermatogenesis, sperm maturation and fertility, as well as new thinking about PSA and prostate cancer; and innovations in male environmental health protection.

Major Lectures on stem cells in relation to the incidence of human disease; novel spermatogenic pathways with relevance to male contraception; and the regulation of testosterone secretion by factors in the brain and testis are prominent in this program. The annual Women in Andrology Lecture will focus on hormone signaling and reprogramming in human prostate stem cells. Differences of opinion that are necessary for good science will be reflected in the AUA Lecture, "Controversies in Vasectomy and Vasectomy Reversal"; a debate on PSA screening and Prostate Cancer; and T therapy in clinical practice. The Women in Andrology Luncheon will focus on the qualities of successful women in science. It, therefore, is not surprising that three women are the recipients of this year's ASA awards: Gail Prins will be honored as the 2014 Distinguished Andrologist; Sara Kimmins will receive the Young Andrologist Award; and Susan Rothman will receive the Distinguished Andrologist Award.

An important function of ASA is engaging students in our endeavors. A Mentoring Luncheon is scheduled that will examine

what it takes to embark on a scientific career. Our membership committee is working diligently to recruit more student members to ASA so please encourage your students to join.

Atlanta is the home of the Centers for Disease Control and Prevention's (CDC). ASA will expand its association with CDC by hosting a special symposium dealing with the role of the agency in research areas of relevance to Andrology.

There is a critical need to raise the awareness in our society of men's health issues by publicizing our work as a way to promote the importance of investing in basic and applied research in the United States. This cannot be over-emphasized. We have established a website, "Andrology America," which we hope will serve this purpose by making it somewhat easier to answer the question, "What is Andrology?"

Be sure to attend the Banquet and Dance which will be held at the Atlanta Event Center at Opera, the premier event center in Atlanta, Georgia. Housed in a building that was originally constructed as an opera house in the early roaring 1920s, Opera is known among the most stylish and well-located event facilities throughout the Southeast.

Finally, I am honored to have had the privilege of serving this past year as president of ASA. I am pleased to report that the society continues to be a viable and important component of the American scientific community. I am extremely proud of the Program for the 39th Annual Meeting of ASA, and thank you all for joining me in Atlanta.

Erwin Goldberg, PhD
President, American Society of Andrology

PAST PRESIDENTS OF THE AMERICAN SOCIETY OF ANDROLOGY

1975-1977	Emil Steinberger*
1977-1978	Don W. Fawcett*
1978-1979	C. Alvin Paulsen*
1979-1980	Nancy J. Alexander
1980-1981	Philip Troen
1981-1982	Richard M. Harrison
1982-1983	Richard J. Sherins
1983-1984	Andrzej Bartke
1984-1985	Rudi Ansbacher
1985-1986	Anna Steinberger
1986-1987	William D. Odell
1987-1988	Larry L. Ewing*
1988-1989	C. Wayne Bardin
1989-1990	Rupert Amann
1990-1991	Howard Nankin
1991-1992	David W. Hamilton
1992-1993	Ronald S. Swerdloff
1993-1994	Bernard Robaire
1994-1995	Glenn R. Cunningham
1995-1996	Marie-Claire Orgebin-Crist
1996-1997	Arnold M. Belker

PAST PRESIDENTS (CONTINUED)

1997-1998	Terry T. Turner
1998-1999	Richard V. Clark
1999-2000	Barry T. Hinton
2000-2001	J. Lisa Tenover
2001-2002	Barry R. Zirkin
2002-2003	Jon L. Pryor
2003-2004	Gail S. Prins
2004-2005	William J. Bremner
2005-2006	Sally Perreault Darney
2006-2007	Christina Wang
2007-2008	Terry R. Brown
2008-2009	Wayne J.G. Hellstrom
2009-2010	Dolores J. Lamb
2010-2011	Paul J. Turek
2011-2012	Gail A. Cornwall, PhD
2012-2013	Donna L. Vogel, MD, PhD

**Deceased*

AMERICAN SOCIETY OF ANDROLOGY

OFFICERS

President	Erwin Goldberg, PhD
Vice President	Jay I. Sandlow, MD
Secretary	Jacquetta M. Trasler, MD, PhD
Treasurer	Rex A. Hess, MS, PhD
Past President	Donna L. Vogel, MD, PhD

EXECUTIVE COUNCIL MEMBERS

Sylvie Breton, PhD; Peter Chan, MD; Alan Diekman, PhD;
George L. Gerton, PhD; Mohit Khera, MD; Kirk C. Lo, MD,
FRCSC, CM; Kate Loveland, PhD; Jeffrey J. Lysiak, PhD;
Ajay K. Nangia, MBBS; Mark Sigman, MD;
Jacques J. Tremblay, PhD; Pablo E. Visconti, PhD

COMMITTEE CHAIRS

Andrology Laboratories

Charles H. Muller, PhD; Seattle, WA

Archives & History Committee

Rex A. Hess, MS, PhD; Urbana, IL

Awards Committee

Barry R. Zirkin, PhD; Baltimore, MD

Basic Science Workshop

Kate Loveland, PhD; Clayton, VIC Australia
Sophie La Salle, PhD; Downers Grove, IL (Co-Chair)

Bylaws Committee

Jannette Dufour, PhD; Lubbock, TX

Diversity Committee

Maria Christina W. Avellar, PhD; Sao Paulo, Brazil
George Gerton, PhD; Philadelphia, PA (Co-Chair)

Endowment Committee

Susan A. Rothmann, PhD, HCLD; Cleveland, OH

Ethics Committee

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Finance Committee

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Future Meetings Committee

John McCarrey, PhD, BS, MS; San Antonio, TX

Industrial Relations Committee

Mohit Khera, MD; Houston, TX

International Liaison Committee

Patricia S. Cuasnicu, PhD; Buenos Aires, Argentina

Journal Oversight Committee

Marvin L. Meistrich, PhD; Houston, TX

Rex A. Hess, MS, PhD; Urbana, IL (Co-Chair)

Laboratory Science Forum

David S. Karabinus, PhD, HCLD; Manassas, VA

Liaison Committee

Cristian O'Flaherty, PhD; Montreal, QC Canada

Local Arrangements Committee

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Membership Committee

Alan Diekman, PhD; Little Rock, AR

Nominating Committee

Donna L. Vogel, MD, PhD; Baltimore, MD

Program Committee

Robert E. Brannigan, MD; Hinsdale, IL (Co-Chair)

Barry R. Zirkin, PhD; Baltimore, MD (Co-Chair)

Public Affairs and Policy Committee

Patricia L. Morris, PhD, MS; New York, NY

Publications and Communications Committee

Jacques J. Tremblay, PhD; Quebec City, QC Canada

Special Symposium

Mohit Khera, MD; Houston, TX

Allen D. Seftel, MD, FACS; Camden, NJ (Co-Chair)

Trainee Affairs

Peter Liu, MBBS, PhD; Torrance, CA

George L. Gerton, PhD; Philadelphia, PA (Co-Chair)

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NOTICE TO READERS

Every effort has been made to ensure that the information printed here is correct; however, details are subject to change.

GENERAL MEETING INFORMATION

Located in the north-west region of the state, Atlanta is not only the capital, but also Georgia's largest city, and operates as the main transportation hub of the southeast. From General William T. Sherman's March to the Sea during the Civil War to the founding of The Coca-Cola Company, and most memorably, as the birthplace of Martin Luther King, Jr. and a major organizing city in the Civil Rights Movement, Atlanta provides a rich historical culture waiting to be explored.

ATTRACTIONS

There are endless options of exciting activities and attractions in Atlanta. Visit the World of Coca-Cola for an educationally delicious look into the world's most famous soft drink where you will have the opportunity to learn about the history, sample over 60 different flavors of Coca-Cola from around the world and more. Delve into the legacy of the leader of the Civil Rights Movement at the Martin Luther King, Jr. National Historic Site. Throughout the site you will find his original gravesite, current tomb, boyhood home and much more. Check out the Georgia Aquarium, the world's largest aquarium. It features tens of thousands of animals of over 500 species, including displays with whale sharks and manta rays, and beluga whales, as well as a must-see dolphin gallery.

SHOPPING

Atlanta offers it all, from boutiques to outlet centers to art galleries and antiques, making the shopping here always exciting. Visit Atlanta's Buckhead District, a chic neighborhood with luxury shopping in sought after destinations, such as Lenox Square and Phipps Plaza. Explore Atlanta's neighborhoods, such as Decatur and Bennett Street, to browse through an array of charming boutiques selling everything from clothing and custom made jewelry to furniture and works of art.

DINING/NIGHTLIFE

The Atlanta dining scene offers a melting pot of choices from the traditional Atlanta soul food, to more refined and original recipes that are sure to make any foodie excited. For instance, head over to the Paschal's where they have been serving up southern cooking from fried chicken and fried green tomatoes to barbecue ribs since 1947, or visit Anis Café & Bistro for their signature mussels and other indulgent dishes.

After dinner, a diverse selection of nightlife awaits in Atlanta, with laid back, chic and trendy options to choose from. Step into Buckhead Bottle Bar, a stylish restaurant that serves up original cocktails, and is open late, fit for an evening of dining, drinks and dancing. Atlanta also offers a variety of theatre and production options from outdoors at the Chastain Park Amphitheater or the Verizon Wireless Amphitheatre, to Broadway's best at Fox Theatre and many more!

WEATHER

Atlanta has a warm, humid climate with April characterized by rising temperatures. The average temperature for early April is a high of 70 degrees Fahrenheit and a low of 50 degrees Fahrenheit.

OUTDOOR RECREATION

Explore Stone Mountain Park where exciting adventures and historical sights are in store. The park features a Geyser Tower, a SkyHike, which is the nation's largest adventure course, scenic rides around the mountain and much more. Stop by the foot of the mountain to find the Stone Mountain Golf Club for a relaxing and picturesque game of golf. Housing interesting animals from around the world, Zoo Atlanta is the place to go to see animal shows and fascinating exhibits, and enjoy a picnic in the park.

ARTS & CULTURE

With 11,000 pieces from around the world, Atlanta's High Museum of Art is not lacking in range. Their main collection features work from Monet, Tournier, Tiepolo and Ernst, among many other notable artists. Browse through Atlanta's unique neighborhood galleries, which include the inventive, Museum of Design Atlanta (MODA). Or check out the Atlanta Symphony Orchestra, a Grammy Award-winning orchestra that is sure to entertain and impress.

Registration/Information Desk Hours are as follows:

Friday, April 4, 2014:

2:00 p.m. – 6:00 p.m.

Saturday, April 5, 2014:

7:30 a.m. – 7:30 p.m.

Sunday, April 6, 2014:

6:30 a.m. – 6:30 p.m.

Monday, April 7, 2014:

7:00 a.m. – 6:00 p.m.

Tuesday, April 8, 2014:

7:00 a.m. – 12:00 p.m.

Exhibit Hall Hours are as follows:

Saturday, April 13, 2013:

4:00 p.m. – 9:30 p.m.

Sunday, April 14, 2013:

7:00 a.m. – 4:00 p.m.

HOTEL INFORMATION

The American Society of Andrology 2014 Annual Conference will be held at the beautiful InterContinental Buckhead Atlanta in Atlanta, Georgia where special room rates have been arranged for meeting attendees.

InterContinental Buckhead Atlanta

3315 Peachtree Road NE
Atlanta, GA 30326
Main: (404) 946-9000
Fax: (404) 521-1327
Website: <http://www.ichotelsgroup.com/intercontinental/en/gb/locations/atlanta>

Room Rate: \$175.00

Hotel Deadline: March 14, 2014

Reservations: (877) 422-8254

Room Rate

ASA has negotiated a discounted rate of \$175.00 plus tax (currently 16%) at the InterContinental Buckhead Atlanta Hotel. Additional charges for people over 17 years of age is \$25.00 per person per night.

Hotel Deadline

The deadline to receive the ASA group rate is March 14, 2014. *ASA encourages you to make your reservation early, as the hotel and discount block may sellout before this date. After this date, reservations will be accepted based on availability and higher rates may apply.*

Reservations

Attendees are responsible for making their reservations by calling the hotel at (877) 422-8254. Please reference the ASA to receive the discounted rate.

Hotel Deposit and Cancellation Policy

A credit card is required for a reservation guarantee. These deposits are fully refundable if the hotel is notified 24-hours prior to arrival and a cancellation number is obtained.

TRAVEL & TRANSPORTATION

Airport Information

Hartsfield-Jackson Atlanta International Airport is approximately 17 miles from the InterContinental Buckhead Atlanta Hotel or 30 minutes by car.

Taxi Cab Services

Several taxi companies operate at the Hartsfield-Jackson Atlanta International Airport:

Atlanta Checker Cab Company:	(404) 351-1111
A&B Taxi:	(770) 471-6646
Atlanta Lenox Taxi:	(404) 872-2600

Rental Car Information

Avis® Rent-A-Car is the official rental car company for the ASA Annual Conference. For reservations, please call (800) 331-1600, and use the code "J901055" to receive the discounted rates.

Public Transportation

Hartsfield-Jackson Atlanta International Airport offers easy access to the Metropolitan Atlanta Transit Authority System. From Hartsfield-Jackson Atlanta International Airport, a one-way fare to Buckhead costs \$2.50. Please visit the following link for detailed directions: <http://www.itsmarta.com/>

Parking

The InterContinental Buckhead Atlanta Hotel offers self parking for \$22.00 per day and valet parking for \$32.00 per day. Please note that rates are subject to change.

SPECIAL EVENTS

Laboratory Science Forum Luncheon

“Kinetic Vitrification: Some Basics and Applications in Andrology Labs”

Date: Saturday, April 5, 2014

Time: 12:00 p.m. – 1:00 p.m.

Location: Trippe 1

In this year’s LSF Luncheon, Dr. Igor Katkov will provide an overview of gamete cryopreservation from the perspective of vitrification. Following a review of the basics of cryopreservation, kinetic vitrification will be discussed with special emphasis on basic and emerging applications and techniques. In addition to providing a review of or first exposure to the principles of cryopreservation, this presentation will also address the principles and promise of vitrification. We look forward to your attending this cool presentation.

Cost: One ticket is included with Andrology Laboratory Workshop (ALW) registration; \$35.00 for non-ALW registrants. Please sign up for this event on the ASA registration form.

Welcome Reception

Date: Saturday, April 5, 2014

Time: 7:30 p.m. – 9:30 p.m.

Location: Windsor Ballroom AB

Join us for a welcome reception to connect with friends and colleagues. Admission to the reception is included in your ASA registration fee; however, it is not included if you are only attending the Andrology Lab Workshop.

Dress: Business casual or casual attire is appropriate

Cost: One ticket included in ASA registration; \$25.00 for additional tickets. Please sign up for this event on the registration form.

Mentoring Luncheon Sponsored by the Diversity and Trainee Affairs Committees

“Embarking on a Scientific Career: Combining Administrative, Teaching and Clinical Responsibilities”

Date: Sunday, April 6, 2014

Time: 12:30 p.m. – 2:00 p.m.

Location: Trippe 2

Dr. Bremner is a recipient of the Distinguished Andrologist Award from the ASA, and has mentored many junior faculty. He is an active clinician, chair of a large department of medicine and principal investigator of a NICHD Male Contraception Research Center Program grant. He will share his insights into how to combine administrative, teaching and clinical responsibilities whilst embarking on a research career.

Speaker: William J. Bremner, MD, PhD

Cost: \$10.00 for trainees, \$35.00 for non-trainees. Please sign up for this event on the registration form.

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Trainee Forum and Mixer

Date: Sunday, April 6, 2014

Time: 6:30 p.m. – 8:30 p.m.

Location: Windsor Garden

The ASA Trainee Forum and Mixer provides the opportunity for trainee members to meet other trainees, as well as meet with more established members of the society. This is a relaxed, informal event with appetizers, beer and wine provided. Senior members of the society will be present for an informal “forum and discussion group” setting to answer your questions about relevant topics such as grant writing, searching for a postdoctoral fellowship or job, alternative PhD career paths, succeeding in the clinic or lab, etc.

Cost: Complimentary; all members of the society are welcome. Please sign up for this event on the registration form.

Women in Andrology Luncheon and Discussion

“What Successful Women Do Differently: Learning to Embrace Failure and to Take Risks”

Date: Monday, April 7, 2014

Time: 12:30 p.m. – 1:45 p.m.

Location: Trippe

Host: Sophie La Salle, PhD

Cost: \$25.00 for trainees, \$35.00 for non-trainees. Please sign up for this event on the registration form.

The ASA is rich with accomplished women andrologists thriving in a variety of positions. What is their secret? Although everyone has their own definition of success, most successful women share common traits. Please join us as we discuss the qualities and approaches that lead to our success. Time will also allow for networking with fellow women in andrology.

Annual Banquet

Date: Monday, April 7, 2014

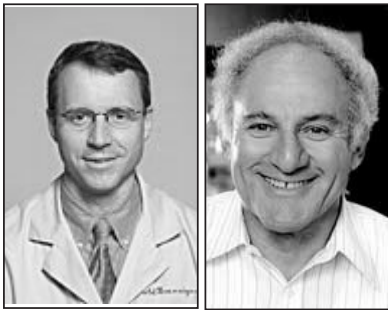
Time: 7:30 p.m. – 11:00 p.m.

Location: Atlanta Event Center at Opera

Cost: \$75.00 per person, \$35.00 for trainees. Includes dinner and entertainment. Please sign up for this event on the registration form.

The Annual Banquet and Dance will be held at the Atlanta Event Center at Opera. This eclectic building was originally constructed as an opera house in the roaring 1920s and features ornate designs that create a luxurious atmosphere perfect for the night’s event.

MESSAGE FROM THE PROGRAM CO-CHAIRS



Welcome to Atlanta for the 39th Annual Meeting of the American Society of Andrology. The theme of this year's meeting is "Andrology: Where Are We and Where Are We Going?" Our objective was to put together cutting edge symposia and lectures that blend basic with clinical research and that look ahead. We realized that success in doing this required bringing together outstanding scientific leaders, both MD and PhD, with accomplishment and vision. We're sure you will agree that the speakers have "been there/done that," and that all are well positioned to discuss where we have been and where we are (or should be) going!

The Emil Steinberger Memorial Lecture, which kicks off the 2014 meeting, will be delivered by Rudolf Jaenisch, PhD of MIT and the Whitehead Institute. Dr. Jaenisch's talk is entitled "iPS Cell Technology and Disease Research: Issues to be Resolved." Dr. Jaenisch is a Founding Member of the Whitehead Institute. His research has focused on understanding epigenetic regulation of gene expression, and this work has led to major advances in our understanding of embryonic stem cells and induced pluripotent stem (iPS) cells. He has coauthored more than 375 research papers and has received numerous prizes and recognitions, including an appointment to the National Academy of Sciences in 2003. The 2014 AUA lecturer will be Jay Sandlow, MD, Director of Male Infertility at the Medical College of Wisconsin. Dr. Sandlow will speak on "Controversies in Vasectomy and Vasectomy Reversal. The Impact of Male Infertility on Men's Health: Is There a Relationship?" This is in keeping with Dr. Sandlow's long-standing interests in the basis for and treatment of male infertility, and in diseases that some of these men incur.

Five major symposia will follow these talks, each with significant translational implications. Symposium I, entitled Stem Cells in the Male Reproductive Tract, will involve a series of talks to be presented by Martine Culty, PhD (Unraveling Signaling Pathways Controlling Gonocyte Differentiation), William Wright, PhD (Regulation of Spermatogonial Stem Cells in the Adult Testis) and Kyle Orwig, PhD (Human and Non-Human Primate Stem Cells). Symposium II, entitled Would You Give This Man Testosterone? Case-Based Discussion, will be a discussion/debate by J. Lisa Tenover, MD, PhD and Peter Schlegel, MD on an issue, testosterone replacement, that has become extremely controversial. Symposium III, entitled Spermatogenesis, Post-Testicular Sperm Maturation and Male Fertility, will consist of a series of talks presented by Ilpo Huhtaniemi, PhD (Qualitative and Quantitative Aspects of the Hormonal Control of Spermatogenesis Revisited), Pablo Visconti, PhD (Ca²⁺ and cAMP Signaling Crosstalk During Sperm Capacitation) and Bernard Robaire, PhD (Aging Affects Germ Cells from Genes to Fertility). Symposium IV, entitled PSA and Prostate Cancer Debate: Is PSA Screening A Rational Approach?, will be a debate by William Catalona, MD, Timothy Wilt, MD and Bal Carter, MD. This, too, is a "hot topic" that is controversial and extremely important. ASA's annual meeting, with its basic scientists and clinicians sitting in the same room, represents an exceptionally appropriate form in which to discuss/debate the issue. Symposium V, entitled Innovations in Male Environmental Health Protection, will consist of talks presented by Thomas Knudsen, PhD (Revolution in Toxicity Testing and Risk Prediction for Chemi-

cals in the Environment), Kim Boekelheide, MD, PhD (Response of Human Fetal Testis Xenotransplants to Environmental Toxicants: Implications for Risk Assessment) and Paula Johnson, PhD (Translation of the Science in Male Reproductive and Environmental Health for Evidence-Based Decisions by Clinicians, Regulators and the Public).

There also will be a series of major lectures. This include the Women in Andrology Lecture by this year's Distinguished Andrologist award-ee, Gail Prins, PhD, entitled Hormone Signaling and Reprogramming in Human Prostate Stem Cells; the International Lecture by Manuela Simoni, MD, PhD, entitled Pharmacogenetics of FSH; and a new Diversity Lecture on Disparities in Men's Health by Charles Modlin, PhD entitled The Role of the Primary Care Physician. Dr. William Bremner, MD, PhD will lecture on Embarking on a Scientific Career: Combining Administrative, Teaching and Clinical Responsibilities in the context of a Mentoring Luncheon sponsored by the Diversity and Trainee Affairs Committees. Additionally, there will state-of-the art major lectures by Norman Arnheim, PhD, entitled What's Good for the Spermatogonial Stem Cell May Be Bad for the Offspring: Advantageous Mutations that Increase the Incidence of Human Disease; Martin Matzuk, MD, PhD entitled Novel Spermatogenic Pathways and Male Contraception; Catherine Rivier, PhD, entitled The Stress Hormone Corticotropin-Releasing Factor Acts in the Brain and the Testes to Regulate Testosterone Secretion; and Vassilios Papadopoulos, PhD, entitled Pharmacological Regulation of Steroid Biosynthesis: From Testis to Brain.

An important feature of our annual meetings are the platform and poster sessions, this year's drawn from the over 150 submitted abstracts. There will be concurrent oral sessions that each will have six speakers, entitled Molecular and Environmental Regulation of Male Reproductive Health and Human Spermatogenesis: Novel Findings in 2014. Two poster sessions also will be held. Both the platform and poster sessions permit those attending the meeting to share their most recent research, and are particularly exciting for the trainees. Please be sure to come out and see the work of the up-and-comers in the field of andrology.

This year's meeting will be significantly enhanced by colleagues from NIH (Drs. Stuart Moss and Thaddeus Schug, who will update us on where NIH funding and interests are, and where we likely are to be going; by the Centers for Disease Control and Prevention which will be integrally involved in a special symposium on Progress in Male Reproductive Health, including talks by Lee Warner, PhD (Insights Gained from CDC Surveys and Initiatives) and Hubert Vesper, PhD on CDC's Hormone Standardization Program: A Focus on Testosterone. There also will be a discussion on potential collaboration between CDC and academic programs and national organizations. The annual meeting will be preceded on Saturday, April 5 by the ASA Basic Science Workshop, entitled Assessing Male Reproductive Function in the Laboratory and chaired by Kate Loveland; the ASA Andrology Lab Workshop entitled Post Vasectomy Semen Analysis: Lab Methods and Interpretation, chaired by Charles Muller; and a Special Symposium entitled Controversies in Testosterone Therapy: Cardiovascular Disease/Metabolic Syndrome, Prostate Cancer, and Fertility, chaired by Mohit Khera and Allen Seftel. Complementing these scientific activities will be events for networking, career development, discussion and socializing. These include the welcoming reception; the Women in Andrology Luncheon and Discussion (What Successful Women Do Differently: Learning to Embrace Failure and to Take Risks), moderated by Sophie La Salle; a Mentoring Luncheon sponsored by the Diversity and Trainee Affairs Committees featuring a lecture by Dr. Bremner noted above; and a trainee forum and mixer.

We thank ASA president Erv Goldberg, PhD for offering us this special opportunity to chair the organization of the 2014 annual meeting, and are grateful for the input and advice from the andrology community, and especially from our Program Committee members. We are particularly grateful to W.J. Weiser and Associates for their consistent help. We hope that the meeting proves to be what the ASA deserves it to be! Enjoy!!

Robert E. Brannigan, MD
Barry R. Zirkin, PhD

PROGRAM COMMITTEE

Robert E. Brannigan, MD; Hinsdale, IL (Co-Chair)
Barry R. Zirkin, PhD; Baltimore, MD (Co-Chair)

Annual Meeting - Clinical

Arthur L. Burnett, II, MD; Baltimore, MD
Marc Goldstein, MD; New York, NY
Robert D. Oates, MD; Boston, MA
Jay I. Sandlow, MD; Milwaukee, WI
Peter N. Schlegel, MD; New York, NY

Annual Meeting - Basic Science

Gail A. Cornwall, PhD; Lubbock, TX
Ina Dobrinski, DVM, PhD; Calgary, AB Canada
Mary Ann Handel, PhD; Bar Harbor, ME
Haifan Lin, PhD; New Haven, CT
Sally Perreault Darney, PhD; Cary, NC
Bernard Robaire, PhD; Montreal, QC Canada

Special Symposium

Mohit Khera, MD; Houston, TX (Co-Chair)
Allen D. Seftel, MD, FACS; Camden, NJ (Co-Chair)

EMIL STEINBERGER MEMORIAL LECTURE AWARD



Rudolf Jaenisch, MD, is a professor of biology at the Massachusetts Institute of Technology and a member of the Whitehead Institute for Biomedical Research. Dr. Jaenisch's laboratory's expertise is in epigenetics, reprogramming and stem cells. He began his career as a pioneer making transgenic mice, some of which have produced important advances in understanding cancer, neurological and connective tissue disease and developmental abnormalities. These methods have been used to explore basic questions such as the role of DNA modification, genomic imprinting, X chromosome inactivation, nuclear cloning and, most recently, the nature of stem cells. The laboratory is known for its expertise in cloning mice and in studying the many factors that contribute to the success and failure of that process. They have gained important insights into therapeutic cloning, and have indeed rescued mice having a genetic defect through therapeutic cloning and gene therapy. In addition, using mice as a model and a technique called "altered nuclear transfer," they have demonstrated that it is possible to procure embryonic stem cells without harming a viable embryo. More recently the lab has demonstrated that somatic cells can be reprogrammed *in vitro* to pluripotent ES-like cells and that these cells are suitable to correct both genetic and induced defects in mice by transplantation therapy. Using this technique for turning skin cells into stem cells, the lab has been able to cure mice of sickle cell anemia—the first direct proof that these easily obtained cells can reverse an inherited disease. His group offers a team of scientists who are experts in deriving and manipulating iPS cells, and generating and differentiating neurons from them. Their interest in neurodegenerative diseases such as Parkinson's, Alzheimers, and Synucleinopathy has also created powerful synergies with other laboratories, sharing their expertise to understand and solve these devastating diseases. Dr. Jaenisch has mentored over 32 former predoctoral fellows and over 60 postdoctoral researchers, including current full Professors at Harvard, Stanford and UCLA. Dr. Jaenisch received his medical degree from the University of Munich in Germany and postdoctoral degrees in both molecular/cell biology and developmental biology from Max-Planck-Institute for Biochemistry in Munich and Princeton University in Princeton, New Jersey, respectively. Dr. Jaenisch has received many honors throughout his career, most recently he received both the Franklin Institute Laureate and the Passano Foundation Award in 2013. He is on the Editorial Board for *PNAS*, a fellow of the American Academy of Arts and Science and a member of the International Society for Stem Cell Research, the National Academy of Sciences, the German Academy of Natural Sciences Leopoldina and the National Institute of Medicine.

DISTINGUISHED ANDROLOGIST AWARD



Gail S. Prins, PhD, is the Michael Reese Professor in the Departments of Urology and Physiology & Biophysics at the University of Illinois at Chicago, College of Medicine. She obtained her PhD in Physiology from the University of Illinois Medical Center, Chicago in 1979 under the tutelage of Laurens Zaneveld, PhD, DVM, a founding member of ASA, with focused studies on sperm transport mechanisms in the vas deferens. She next completed an NIH postdoctoral fellowship in the Department of Urology at Northwestern University Medical School

where she developed a research focus on hormonal regulation of the prostate gland. In 1983, Dr. Prins joined the faculty at Michael Reese Hospital & Medical Center as assistant professor of obstetrics and gynecology, University of Chicago. As the founder and director of the In-Vitro Fertilization Laboratory, she was successful in obtaining the first pregnancies and live births in the Midwest using this new technology. She simultaneously built an active a clinical andrology laboratory and a basic research program in prostate androgen receptor regulation. In 1996, Dr. Prins joined the Department of Urology at the University of Illinois at Chicago, moving her research team and clinical andrology laboratory to the UIC campus where she rose through the ranks to her current position.

Dr. Prins has maintained two active and highly successful research programs since the 1980s. Her translational research on human sperm cryopreservation led to the development of an optimal sperm freezing system widely used throughout the globe for both donor and surgically retrieved patient sperm samples. Her basic research program, continuously funded by the NIH for the past 25+ years, is focused on prostate gland development, steroid receptors, hormonal carcinogenesis, endocrine disrupting chemicals (EDCs) and the fetal basis of adult prostate disease. Her work has established that early life exposures to natural estrogens or EDCs, such as bisphenol A, permanently reprogram the prostate and increase its susceptibility to cancer with aging. She has gone on to identify the molecular basis for altered prostate memory, which includes epigenetic reprogramming of prostate stem cells. Most recently, her research team developed novel models to examine these interactions in human embryonic stem cells and prostate epithelial stem and progenitor cells and determined that similar to animal models, stem cell reprogramming and carcinogenic susceptibility are modulated by estrogens and EDCs in the human tissue.

Dr. Prins is widely acclaimed for her research and has authored over 160 peer-reviewed manuscripts in addition to book chapters and position papers. Dr. Prins has performed prodigious service for the ASA over the past 30 years, acting as treasurer (1994 – 1998), president (2003 – 2004), member of the Executive Council, chair of the Finance Committee and chair of the Development Committee as well as service on numerous committees and programs. Similarly, she has served on multiple scientific advisory panels including the Integration Panel for the DoD Prostate Cancer Research Program, the NIEHS External Scientific Review Committee, the NAS Committee to evaluate Veterans and Agent Orange, as NIH grant reviewer and as chair of the Gordon Research Conference on Hormones, Development and Cancer. She is currently an editor of *Endocrinology* and associate editor of *Andrology*. Dr. Prins is the recipient of multiple awards including the Distinguished Service Award from the American Society of Andrology (2001), the Ex-

Serono Lectureship Recipients

1980	C. Alvin Paulsen
1981	Pierre Soupart
1982	Kevin J. Catt & Maria L. Dufau
1983	J. Michael Bedford
1984	C. Wayne Bardin
1985	David M. De Kretser
1986	Ronald S. Swerdloff
1987	Roger V. Short
1988	Roger Guillemin
1989	Frank S. French
1990	David C. Page
1991	Tony M. Plant
1992	Yves Clermont
1993	Leroy Hood
1994	Michael D. Griswold
1995	Marie-Claire Orgebin-Crist
1996	Norman B. Hecht
1997	Patrick C. Walsh
1998	Jurrien Dean
1999	Neal First
2000	Bert O'Malley
2001	John D. Gearhart
2002	David Botstein
2003	Victor D. Vacquier

ASA Lectureship Recipients

2004	Judith Kimble
2005	David Page
2006	John R. Aitken
2007	Rudolf Jaenisch
2008	Haifan Lin
2009	Blanche Capel

Emil Steinberger Memorial Lecture Recipients

2010	Andrew Sinclair
2011	Leendert Looijenga
2012	William F. Crowley, Jr.
2013	Deborah O'Brien, PhD

cellence in Urologic Research Award from the Society for Basic Urologic Research, the 2011 UIC Researcher of the Year Award in Basic Life Sciences and was invested with the Michael Reese Endowed Professorship in Urology at UIC in 2013.

In summary, Dr. Prins experiences a robust career that spans multiple areas of the Andrology field, from basic research discoveries that define the developmental basis of adult prostate disease, to service as a Director of Andrology and IVF Laboratories with translational advances for sperm banking and male infertility. Combined with her career-long scientific service contributions, she exemplifies the qualities embodied in the ASA Distinguished Andrologist award. As such, it is most fitting that the ASA honors her outstanding contributions by bestowing on her the Society's highest honor for 2014.

DISTINGUISHED ANDROLOGISTS

1976	Roy O. Greep & M.C. Chang
1977	Robert E. Mancini
1978	Robert S. Hotchkiss
1979	Thaddeus Mann
1980	John MacLeod
1981	Alexander Albert
1982	Eugenia Roseberg
1983	Kristen B.D. Eik-Nes
1984	Mortimer B. Lipsett
1985	Robert H. Foote
1986	Alfred D. Jost
1987	Emil Steinberger
1988	Yves W. Clermont
1989	C. Alvin Paulsen
1990	Marie-Claire Orgebin-Crist
1991	Philip Troen
1992	C. Wayne Bardin
1993	Anna Steinberger
1994	Richard J. Sherins
1995	Rupert P. Amann
1996	J. Michael Bedford
1997	Brian P. Setchell
1998	Ryuzo Yanagimachi
1999	Richard D. Amelar
2000	Bayard T. Storey
2001	Frank S. French
2002	Geoffrey M. H. Waites
2003	David M. de Kretser
2004	Ronald Swerdloff
2005	Mitch Eddy
2006	Norman Hecht
2007	Eberhard (Ebo) Nieschlag
2008	Bernard Robaire
2009	William Bremner
2010	Dolores Lamb
2011	Barry Zirkin
2012	Erwin Goldberg
2013	Christina Wang

The Distinguished Andrologist Award is sponsored by the American Society of Andrology.

DISTINGUISHED SERVICE AWARD



Dr. Susan Rothmann is the founder and President of Fertility Solutions Inc. She received a BA in biology from Wells College in 1971, followed by an MS in 1973 and a PhD in 1976 from New York University. She completed postdoctoral fellowship training in Cardiovascular Research and Laboratory Hematology at the Cleveland Clinic Foundation and was a member of the Professional Staff from 1978 to 1992. She founded

the Cleveland Clinic Sperm Bank and Andrology Laboratory. She received a Certificate in Health Care Practice Management in 1991 from the Weatherhead School of Management at Case Western Reserve University. Dr. Rothmann holds Board-certifications as High-Complexity Laboratory Director, Andrology Laboratory Director and Clinical Laboratory Consultant. She has post-graduate training in hypnotherapy, guided imagery and business management.

Dr. Rothmann's research interests focus on standardization of sperm morphology classification, education in semen analysis and improved standardization of semen analysis in multicenter clinical trials for vasectomy, pharmaceutical safety and toxicology. Her recent NIH sponsored research identified significant lack of consensus in application of morphology systems, from which she developed a novel standardized method for sperm shape classification based on a dichotomous tree algorithm. In 1992, Dr. Rothmann started work on new methods for teaching laboratory andrology methods and management. She introduced a new format for ASA workshops using interactive exercises and small breakout group modules. She has served as faculty in the majority of them and program chair or co-chair of four, including the first hands-on wet workshop sponsored by the ASA outside of the Annual Meeting. She is currently editing interactive training texts on semen analysis and sperm morphology and developing medical technology curriculum for semen analysis.

Dr. Rothman has authored over 100 scientific manuscripts, book chapters and abstracts, been the recipient of numerous research grants and trained many fellows and students. She is the author/editor of four books on semen analysis and the author/narrator of four fertility guided imagery audios.

Dr. Rothmann joined ASA in 1985 and is a Life Member. She was elected to Executive Council in 1991 and again in 2010. She has chaired the Andrology Laboratories, Endowment Ad Hoc and Awards Committees and is currently chair of Endowment and Development Committee and the 2013 – 2014 Annual Fund Campaign. She served on Student Affairs, Industrial Relations, Nominating, Student Affairs, Liaison, Constitution/Bylaws, Local Arrangements, Laboratory Scientists and Nominating, Endowment and Development and Strategic Planning Committees. She was active in the CASA User Group and represented ASA interests in the College of American Pathologists' Reproductive Biology Resource Committee. She was a founder of Women in Andrology to promote diversity in society leadership. Dr. Rothmann coauthored the 2012 ASA Strategic Plan and wrote the 2013 comprehensive Endowment Plan.

DISTINGUISHED SERVICE AWARD RECIPIENTS

1994	C. Alvin Paulsen
1995	Andrzej Bartke
1996	Philip Troen
1997	Marie-Claire Orgebin-Crist
1998	Rupert P. Amann
1999	David W. Hamilton
2000	Bernard Robaire
2001	Gail S. Prins
2002	Terry T. Turner
2003	Arnold M. Belker
2004	J. Lisa Tenover
2005	Barry Hinton
2006	Barry Zirkin
2007	Sally Perreault Darney
2008	Matthew P. Hardy
2009	Erwin Goldberg
2010	Joel L. Marmar
2011	Christina Wang
2012	Terry R. Brown
2013	Rex A. Hess

YOUNG ANDROLOGIST AWARD



Dr. Sarah Kimmins received her PhD from Dalhousie University in 2003 and completed her postdoctoral training at the Institut de génétique et de biologie moléculaire et cellulaire of the Université Louis Pasteur in Strasbourg, France. She was appointed to the Department of Animal Science in the Faculty of Agricultural and Environmental Sciences in 2005 and is a tenured associate professor. She is an associate member of the Department of Pharmacology and Therapeutics at McGill. She holds a Tier II Canada Research Chair in Epigenetics, Reproduction and Development. Her independent and collaborative research programs have received peer reviewed funding from the Canadian Institutes of Health Research (CIHR), Genome Quebec, Fonds québécois de la recherche sur la nature et les technologies (FQRNT) and the National Sciences and Engineering Research Council (NSERC).

Globally the prevalence of diabetes, obesity and other chronic diseases such as cancer, and cardiovascular disease are on the rise. These increases have occurred at rates that cannot be due to changes in the genetic structure of the population and are likely caused by environmental factors that modify gene function via epigenetics. Kimmins leads a research program in determining how the environment (drugs, nutrients and toxicants) impacts the health of parents and offspring, with a focus on understanding the epigenome in development and disease. The epigenome is heritable layer of information that functions like a 'switch' to turn genes on or off. It is transmitted from one generation to the next in the gametes (sperm and egg). Her research involves long-term multi-generational studies to identify the mechanisms implicated in epigenetic inheritance. With her collaborators, she uses transgenic and environmental exposures in rodent models and human samples, in combination with next generation highthroughput technologies to identify the epigenetic signatures that can be transferred from one generation to the next. This is an emerging research area and to date there are only a handful of groups engaged in this kind of research. In 2013 her research group was the first to identify that a father's diet has the ability to alter development of the embryo and highlights the importance of recognition that the father's preconception health may be equally as important as the mother in terms of having healthy babies. In particular this research identified folate as a factor in male preconception health and its deficiency was associated with increased birth defects in offspring. This ongoing line of research has the potential to impact child health worldwide in terms of prevention of birth defects and chronic disease. This research was highlighted in international Media such as the Washington Post, the LA Times, The Guardian, Time, The Economist, The Globe and Mail, BBC UK, CBC and Global News. This line of research is on the verge of being translated into human studies, pending funding, for long-term studies to follow parents and their offspring in relation to environmental components such as diet and obesity.

Her expertise in epigenomics, development and reproduction is often sought and she serves as a peer reviewer for national and international

granting agencies and for general interest high impact journals as well as field specific journals. Kimmins is an active collaborator with researchers within McGill, Quebec and Internationally. She is extensively involved and a committed member of several international societies and serves on multiple society committees.

YOUNG ANDROLOGIST AWARD RECIPIENTS

1982	L.J.D. Zaneveld
1983	William B. Neaves
1984	Lonnie D. Russell
1985	Bruce D. Schanbacher
1986	Stephen J. Winters
1987	Ilpo T. Huhtaniemi
1988	Larry Johnson
1989	Barry T. Hinton
1990	Luis Rodriguez/Rigau
1991	Patricia M. Saling
1992	Gary R. Klinefelter
1993	Robert Chapin
1994	Wayne J.G. Hellstrom
1995	Christopher DeJonge
1996	Paul S. Cooke
1997	Gail A. Cornwall
1998	William R. Kelce
1999	Stuart E. Ravnik
2000	Matthew P. Hardy
2001	Jacquetta Trasler
2002	Christopher L.R. Barratt
2003	Joanna E. Ellington
2004	Kate Loveland
2005	Janice Bailey
2006	Janice P. Evans
2007	John K. Amory
2008	Moiria K. O'Bryan
2009	Michael A. Palladino
2010	Peter Liu
2011	Humphrey Yao
2012	Wei Yang
2013	Jacques J. Tremblay

The Young Andrologist Award is sponsored by the Texas Institute for Reproductive Medicine and Endocrinology, PA

OUTSTANDING TRAINEE INVESTIGATOR AWARD

The Outstanding Trainee Investigator Award is given to the ASA trainee member with the best abstract and research presentation at the annual meeting. The award encourages trainee members to submit and present their best work and contribute to the scientific excellence of the society.

The recipient of the 2014 Outstanding Trainee Investigator Award will be announced during the Annual Business Meeting on Monday, April 7, 2014 at 5:00 p.m.

NEW INVESTIGATOR AWARD RECIPIENTS

1983	Thomas T. Tarter
1984	Peter S. Albertson
1985	Randall S. Zane
1986	Mark A. Hadley
1987	Peter Grosser
1988	Stuart E. Ravnik
1989	Tracy L. Rankin
1990	Donna O. Bunch
1991	Robert Viger
1992	John Kirby
1993	Michael A. Palladino
1994	Linda R. Johnson
1995	Mehdi A. Akhondi
1996	Wei Gu, Daniel B. Rudolph
1997	Loren D. Walensky
1998	Dolores D. Mruk
1999	Jacques J. Tremblay
2000	Jeffrey J. Lysiak
2001	Alexander T.H. Wu
2002	Ebtesam Attaya
2003	Mustafa Faruk Usta

OUTSTANDING TRAINEE INVESTIGATOR AWARD RECIPIENTS

2004	Darius Paduch
2005	Tara Barton
2006	Liwei Huang
2007	Steve Tardif
2008	Duangporn Jamsai
2009	Catherine Itman
2010	Michael Elliott
2011	Matthew Marcello
2012	Andrew Major
2013	Mary Samplaski

THANK YOU TO DONORS & SPONSORS

The American Society of Andrology gratefully acknowledges these contributors to the various ASA Endowment or Asset Funds:

Gold Level

(Multiple or single contribution(s) greater than or equal to \$10,000)

Douglas T. Carrell, PhD
Anna Steinberger, PhD
Bayard T. Storey, PhD
Donna L. Vogel, MD, PhD
Christina Wang, MD

Silver Level

(Multiple or single contribution(s) greater than or equal to \$5,000)

Erwin Goldberg, PhD
Rex A. Hess, MS, PhD
Ronald W. Lewis, MD, FACS
Gail S. Prins, PhD
J. Lisa Tenover, MD, PhD

Sustaining

(Multiple or single contribution(s) greater than or equal to \$2,000)

Rupert A. Amann, PhD
Richard D. Amerlar, MD
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William J. Bremner, MD, PhD
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Barbara M. Sanborn, PhD
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Terry T. Turner, PhD

Annual Contributions for 2012 (through 11/29/12)

\$1000+

Andrzej Bartke, PhD
Douglas T. Carrell, PhD
Anna Steinberger, PhD
Christina Wang, MD

\$250 – \$999

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EDUCATIONAL NEEDS & OBJECTIVES

39th Annual ASA Meeting

“Andrology Where Are We and Where Are We Going?”

Needs

Male fertility and sexual health are central to men's health in general. Increasingly, new tools, approaches and therapies are becoming available with which to deal with the regulation of fertility and the improvement of health. The use of these modern approaches requires the integration of physiology, endocrinology, genetics, neurobiology and psychology, along with consideration of lifestyle and environmental exposures. There must be extensive interactions among clinicians and translational scientists in order to both recognize and treat clinical conditions related to male fertility and reproductive health.

The 39th Annual Meeting of American Society of Andrology will provide a forum for clinicians and basic scientists to exchange ideas and raise new clinically applicable questions that can lead to novel research directions and efficacious therapies. Renowned researchers working in the fields of urology, endocrinology, clinical andrology, genetics, reproductive medicine and reproductive biology will come together to present cutting edge developments in the physiological and molecular foundations of male reproductive function.

Educational Objectives

- Explain approaches to derive and use induced pluripotent stem cells both for understanding and treatment of a number of diseases of the male reproductive system.
- Describe the standards used for vasectomy and vasectomy reversal, and discuss the controversies that exist.
- Identify the mechanisms that regulate the formation of the stem cell pool in the testis from which spermatozoa ultimately are derived, and the stem cell-based techniques that have potential to generate or regenerate spermatogenesis and thus restore fertility.

- Describe the biochemical pathways that are altered with the occurrence of mutations in the testis that confer advantages to the cells that acquire them, how these pathways provide selective advantages that result in unexpectedly high incidence of the mutations and why particular mutations almost always originate in the father.
- Describe the identification and characterization of germ cell-specific genes that are required for spermatogenesis, and how the protein products of these genes might represent novel, druggable targets for contraception.
- Describe studies designed to determine whether the human prostate is sensitive to the environmental toxicant, bisphenol A, as is the case of the rodent prostate.
- Identify the criteria used by healthcare providers to provide testosterone replacement therapy to older male patients, including the potential benefits and risks.
- Describe how sperm maturation is regulated in the epididymis, and how the sperm become competent for fertilization in the female tract.
- Explain how testosterone production is regulated in the testis and brain, and what the long-term and short-term adverse effects are of altered testicular and neurosteroid levels.
- Identify the evidence for PSA screening in relationship to prostate cancer detection, including the arguments for and against a targeted screening approach.
- Describe pharmacogenetic approaches for the use of follicle-stimulating hormone in the treatment of hypogonadotropic hypogonadism and infertility.
- Describe the mechanistic relationships among environmental exposures and health risk, and the development of cost-effective approaches for efficiently prioritizing the toxicity testing of chemicals.

ASA SPECIAL SYMPOSIUM

Needs

Last year testosterone was one of the fastest growing medications in the United States. However, there continues to be several areas of controversy associated with this medication. Historically there has

been data to support that testosterone may be protective for cardiovascular disease. In fact, many studies have demonstrated that those men with low testosterone levels are much more likely to die from a cardiovascular event. However, recent data suggest that testosterone may be dangerous for cardiovascular health. The FDA has also recently stated that they will be investigating the risk of testosterone on cardiovascular health.

Today the main reason why clinicians do not prescribe testosterone is the fear that it may cause prostate cancer. However, there is no compelling data to support this. Many clinicians are unaware of the published data on testosterone and prostate cancer.

Finally many clinicians are still unaware that giving testosterone can reduce sperm counts. A recent AUA survey demonstrated at most Urologist would give men who are trying to conceive testosterone. Testosterone acts as a natural contraceptive and many clinicians still need to be educated on the impact of testosterone on fertility.

Educational Objectives

By the end of the ASA Symposium, attendees should be able to:

- Explain the controversy of testosterone and cardiovascular disease.
- Describe how testosterone affects the heart and overall cardiac function.
- Describe how to treat hypogonadal men who wish to preserve their fertility.
- Identify the cardiovascular and metabolic risks associated with low testosterone and how low testosterone is associated with an increased risk of mortality.
- Describe the published literature on testosterone and prostate cancer.
- Describe the effects of testosterone on the prostate and how testosterone can be used to treat men following radical prostatectomy.
- Explain how to recover sperm function in those men who have abused testosterone.

ACCREDITATION INFORMATION

Accreditation Statement

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the University of Oklahoma College of Medicine and the American Society of Andrology. The University of Oklahoma College of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

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MARK YOUR CALENDARS

ASA 40th Annual Conference

April 18 – 21, 2015

Little America Hotel

Salt Lake City, UT

Andrology Lab Workshop

April 18 – 19, 2015

Testis Workshop “Healthy Sperm/Healthy Children”

April 15 - 18, 2015

ASA Special Symposium

April 18, 2015