The 42nd Annual Meeting of the American Society of Andrology titled “New Concepts and Perspectives in Male Reproductive Health” was hosted at the Hilton Miami Downtown in Miami, Florida United States April 22-25, 2017. The 42nd Annual Meeting was designed to showcase the diagnosis and management of many conditions in andrology have been greatly influenced by recent pharmacological, surgical and basic science advances. One of the greatest challenges in this discipline is to keep abreast of the many dynamic changes in this field. An internationally acclaimed faculty has been assembled to provide this update, with presentations on topics such as Transgender Surgery, Genitourinary Tissue Regeneration, Male Sexual Dysfunction, Male Infertility, Reproductive Biology, and Stem Cell Biology. During the plenary sessions, attendees will have the opportunity to participate in question and answer sessions.

Two hundred and eighty one (281) individuals attended the meetings. Of these, there were 32 member trainees and 54 nonmember trainees. The number of students and trainees increased from 82 in 2016 to 86 in 2017. Besides the scientific sessions, there were ample opportunities for scientific exchange and social and career networking among students, trainees, and scientists and clinicians throughout the meeting. Formal networking venues include the welcome reception, pre-meeting informal breakfasts daily, breaks between sessions, a trainee forum and mixer, and an annual banquets. Because the meeting and most of the attendees are in one location, there are other chances for interactions. Individuals working in academia, industry, and governmental agencies are all well represented at this meeting.

The three ISA award winners presented their data during the ASA Poster sessions. The winners were as follows:
1. Han-Yu Weng, MD (National Cheng Kung University Hospital - Taiwan) Poster #54 TESTICULAR SPERM RETRIEVAL IN LATE ADOLESCENTS (AGED 15-19 YEARS) WITH NON-MOSAIC KLINEFELTER SYNDROME AND AZOOSPERMIA
2. Lucas G.A. Ferreira, MSc Student (Section of Experimental Endocrinology, Department of Pharmacology, Universidade Federal de São Paulo - Brazil) Poster #93 NEW INSIGHTS ON THE CELLULAR DISTRIBUTION OF BETA-DEFENSINS DURING EPIDIDYMAL MORPHOGENESIS
3. Minghan Sun MD, PhD (Sichuan Provincial Hospital - China) Poster #99 NOVEL COMPOUND HETEROZYGOUS DNAAF2 MUTATION CAUSE PRIMARY CILIARY DYSKINESIA IN A HAN CHINESE FAMILY

The 2017 program also included the program officers from NICHD and NIEHS who presented updates from their respective Institutes; along with both Oral abstract and Poster abstract sessions featuring up and coming trainees from around the world. Major lectures and symposia included:

- **EMIL STEINBERGER MEMORIAL LECTURE:** *Making a Good Genome for the Sperm* by Mary Ann Handel, PhD, The Jackson Laboratory

- **WOMEN IN ANDROLOGY LECTURE:** *Sperm Interactions with the Female Reproductive Tract* by Susan S. Suarez, MS, PhD, Cornell University

- **EAA LECTURE:** *Therapeutic Promise of Spermatogonial Stem Cells* by Stefan Schlatt, PhD, University of Muenster, Germany

- **INTERNATIONAL LECTURE:** *Fertility Restoration by Spermatogonial Stem Cell Transplantation* by Takashi Shinohara, PhD, Horizontal Medical Research Organization, Japan

- **SYMPOSIUM** on New Insights into ART; Sex and Gender Identity and Reproductive Health; Male Reproductive Tract; Testicular Somatic Cells / Spermatogenesis; and Sperm Function

- **LECTURES** on The Importance and Strategy for Placing Male Reproductive Health in the Centre Stage in the Political and Research Agenda; Male Infertility as an Indicator of Overall Health; Transgender Surgery: Crossing Disciplines and Changing; Molecular Genetics of External Genitalia Development; and Regenerative Medicine for Genitourinary Organs
• **ASA Clinical Symposium:** “Sexual Function and Fertility in the Spinal Cord Injured Male” Education and training are lacking for clients and practitioners in the management of infertility in men with SCI. Most infertility specialists do not evaluate the male partner of an infertile couple and often do not even refer the men for fertility evaluations. Most urologists have not had much training or exposure in the techniques of sperm retrieval via assisted ejaculation.

• **Andrology Lab Workshop:** "Restoring Strict Morphology Relevance: a Consensus Workshop" Sperm morphology is the most difficult part of semen analysis to standardize to the WHO5th distribution of values. As has been noted in the literature, sperm morphology reference values has decreased steadily, even once the strict criteria were introduced. Many ART labs have developed such stringent classification that few if any normal sperm can be found. A novel classification approach will be used to build a consensus. Participants will classify sperm as usual and then again using a standard method and order of classification. QC strategies to reduce shift and drift will be discussed. The results will be compared and the data reported in Andrology.

• **A 3rd ANNUAL TRAINEE-DIRECTED MINI-SYMPOSIUM: "Finding Your BLISS: Careers in Andrology"**
ASA 42nd Annual Conference  
April 21 - 25, 2017  
The Hilton Miami Downtown | Miami Florida  
All sessions will be located in Symphony Ballroom III/IV unless otherwise noted

FRIDAY, APRIL 21, 2017

2:00 p.m. - 6:00 p.m.  
Registration/Information Desk Open  
Location: Ballroom Registration

5:00 p.m. - 10:00 p.m.  
Executive Council Meeting and Dinner  
Location: Concerto A

SATURDAY, APRIL 22, 2017

7:00 a.m. - 7:00 p.m.  
Registration/Information Desk Open  
Location: Ballroom Registration

4:00 p.m. - 9:30 p.m.  
Exhibit Hall Open  
Location: Symphony Ballroom I

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:30 a.m.</td>
<td>ASA Andrology Lab Workshop</td>
<td>Concerto B</td>
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<tr>
<td>8:30 a.m.</td>
<td>&quot;Restoring Strict Morphology Relevance: A Consensus Workshop&quot;</td>
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<td></td>
<td>The American Board of Bioanyalysis (ABB) Professional Enrichment Education Renewal (PEER) has approved this workshop for 0.85 CEU’s or 8.5 Contact hours of continuing education activity.</td>
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<td>*Not CME Accredited.</td>
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<td>12:00 p.m.</td>
<td>LAB SCIENCE FORUM LUNCHEON</td>
<td>Concerto A</td>
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<tr>
<td>12:00 p.m.</td>
<td>&quot;Discordance and the lab: Evaluating and processing semen from virus-infected patients&quot;</td>
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<td>Speaker: Erma Z. Drobnis, PhD</td>
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<td>12:00 p.m.</td>
<td>Industry Satellite Symposia Lunch</td>
<td>Concerto D</td>
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<td>1:00 p.m.</td>
<td>ASA Clinical Symposium</td>
<td>Symphony Ballroom III/IV</td>
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<td>1:00 p.m.</td>
<td>&quot;Sexual Function and Fertility in the Spinal Cord Injured Male&quot;</td>
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<td>6:00 p.m.</td>
<td>Welcome and Opening Remarks</td>
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<td>6:10 p.m.</td>
<td>Updates from NIH, NICHD &amp; NIEHS</td>
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<td>6:10 p.m.</td>
<td>Guest Speakers: Daniel S. Johnston, PhD</td>
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<td>NIH, Contraception Research Branch NICHD</td>
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<td>Stuart B. Moss, PhD</td>
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<td>National Institutes of Child Health and Human Development</td>
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<td>Thaddeus T. Schug, PhD</td>
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<td>National Institute of Environmental Health Sciences</td>
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<tr>
<td>6:30 p.m.</td>
<td>*ANDROLOGY Journal Award *NOT CME Accredited</td>
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<tr>
<td>6:50 p.m.</td>
<td>EMIL STEINBERGER MEMORIAL LECTURE  &quot;Making a Good Genome for the Sperm&quot;</td>
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<td><em>(Introduced by ASA President Mary M. Lee, MD)</em></td>
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<td>Speaker: Mary Ann Handel, PhD, The Jackson Laboratory</td>
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<td>7:45 p.m.</td>
<td>* Distinguished Andrologist Award *NOT CME Accredited</td>
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<td>8:00 p.m.</td>
<td>ASA Welcome Reception</td>
<td>Symphony Ballroom I</td>
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SUNDAY, APRIL 23, 2017

6:30 a.m. - 8:00 a.m.  Past President’s Breakfast
Location: Concerto D

7:00 a.m. - 6:00 p.m.  Registration/Information Desk Open
Location: Ballroom Registration

7:00 a.m. - 8:00 a.m.  Continental Breakfast in Exhibit Hall
Location: Symphony Ballroom I

7:00 a.m. - 4:00 p.m.  Exhibit Hall Open
Location: Symphony Ballroom I

8:00 a.m. - 9:00 a.m.  LECTURE I: The Importance and Strategy for Placing Male Reproductive Health in the Centre Stage in the Political and Research Agenda
(Introduced by Sylvie Breton, PhD)
Speaker: Christopher Barratt, PhD
University of Dundee, United Kingdom

9:00 a.m. - 9:15 a.m.  Distinguished Service Award *NOT CME Accredited
2017 Recipient: Janice P. Evans, PhD
(Introduced by Janice L. Bailey, PhD)

9:15 a.m. - 10:45 a.m.  SYMPOSIUM I - New Insights into ART
Moderator: Peter Chan, MD

9:15 a.m. - 9:45 a.m.  Large Scale Studies on Controversy on ICSI Offspring Outcomes
Speaker: Mary Croughan, PhD
University of California San Francisco

9:45 a.m. - 10:15 a.m.  Implications of the Aging Male Gamete on ART Outcome
Speaker: Gianpiero Palermo, MD
The New York Hospital, Cornell Medical Center

10:15 a.m. - 10:45 a.m.  Autism and Other Developmental Disorders in ART
Speaker: Sven Sandin, PhD
Mount Sinai School of Medicine

10:45 a.m. - 11:00 a.m.  Quick Break

11:00 a.m. - 12:30 p.m.  Poster Session I *NOT CME Accredited
Location: Symphony Ballroom II

12:30 p.m. - 2:00 p.m.  Lunch (on your own)

12:30 p.m. - 2:00 p.m.  MENTORING LUNCHEON
"Experiment with your career (or why you can do almost anything when trained as a scientist)"
Sponsored by the Diversity and Trainee Affairs Committees
Location: Concerto A
Speaker: Michael A. Palladino, PhD
Monmouth University

12:30 p.m. - 2:00 p.m.  Editorial Board Luncheon
Location: Concerto D

2:00 p.m. - 3:30 p.m.  CONCURRENT ORAL SESSIONS

3:30 p.m. - 3:45 a.m.  Refreshment Break

3:45 p.m. - 4:30 p.m.  EAA LECTURE: Therapeutic Promise of Spermatogonial Stem Cells
(Introduced by Patricia S. Cuasnicu, PhD)
Speaker: Stefan Schlatt, PhD
University of Muenster, Germany
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<th>Time</th>
<th>Event Description</th>
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| 4:30 p.m. - 5:15 p.m. | LECTURE II: Male Infertility as an Indicator of Overall Health  
(Introduced by Joseph Alukal, MD)  
Speaker: Michael L. Eisenberg, MD  
Stanford University School of Medicine |
| 5:15 p.m. - 6:30 p.m. | "3RD ANNUAL TRAINEE-DIRECTED MINI-SYMPOSIUM  
"Finding Your BLISS: Careers in Andrology"  
*NOT CME Accredited  
Location: Symphony Ballroom III/IV  
Organizing Committee: Mahmoud Aarabi, MD, PhD (Program Co-Chair)  
Parag Parekh, PhD. (Program Co-Chair); Sophie La Salle, PhD; Mara Roth, MD; & George Gerton, PhD |
| 5:15 p.m. - 5:20 p.m. | Opening Remarks  
Mahmoud Aarabi, MD PhD & Parag Parekh, PhD  
(Trainee Representatives and Program Co-Chairs) |
| 5:20 p.m. - 5:50 p.m. | Introductory Presentations by Invited Speakers Representing Various Types of Careers in Andrology  
Academia: Undergraduate/Professional Graduate School Setting  
Speaker: Matthew R. Marcello, PhD  
Pace University  
Non-Traditional Academia: Basic Scientist in Clinical Department  
Speaker: Cristian O'Flaherty, PhD, DVM  
McGill University -Research Institute-MUHC  
Canada  
Technology Development  
Speaker: Alexander J. Travis, VMD, PhD  
Cornell University  
Andrology Laboratory  
Speaker: Sergey I. Moskovtsev, MD, PhD  
Create Fertility Centre  
Canada  
Governmental Agency  
Speaker: Sally P. Darney, PhD  
National Institute of Environmental Health Sciences |
| 5:50 p.m. - 6:20 p.m. | Q&A Session |
| 6:20 p.m. - 6:30 p.m. | Closing Remarks  
Speaker: Sophie La Salle, PhD  
Midwestern University |
| 6:30 p.m. - 7:30 p.m. | *Presentation of Trainee Awards  
Location: Symphony Ballroom III/IV  
(All Trainee Travel and Onsite Poster Awards: Outstanding Trainee Investigator, Anna Steinberger  
Award, and Trainee Merit Awards will be distributed)  
*NOT CME Accredited |
| 7:30 p.m. - 8:30 p.m. | Trainee Forum and Mixer  
Location: Upper Pool Terrace |
**MONDAY, APRIL 24, 2017**

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<th>Time</th>
<th>Event</th>
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| 7:00 a.m. - 6:00 p.m. | Registration/Information Desk Open  
  *Location: Ballroom Registration* |
| 7:00 a.m. - 3:30 p.m. | Exhibit Hall Open  
  *Location: Symphony Ballroom I* |
| 7:00 a.m. - 8:00 a.m. | Continental Breakfast in Exhibit Hall |
| 8:00 a.m. - 9:00 a.m. | WOMEN IN ANDROLOGY LECTURE: Sperm Interactions with the Female Reproductive Tract  
  *(Introduced by Jannette Dufour, PhD)*  
  Speaker: Susan S. Suarez, MS, PhD  
  Cornell University |
| 9:00 a.m. - 9:15 a.m. | Young Andrologist Award  
  *NOT CME Accredited*  
  *2017 Recipient: Polina Lishko, PhD*  
  *(Introduced by Pablo E. Visconti, PhD)* |
| 9:15 a.m. - 10:15 a.m. | SYMPOSIUM II - Sex and Gender Identity and Reproductive Health  
  Moderator: Cigdem Tanrikut, MD |
| 9:15 a.m. - 9:35 a.m. | Advances in Transgender Surgery  
  Speaker: Eric Vilain, MD, PhD  
  UCLA |
| 9:35 a.m. - 9:55 a.m. | Guideline of the Endocrine Treatment of Transsexual Persons  
  Speaker: Wylie C. Hembree, MD  
  Columbia University medical Center |
| 9:55 a.m. - 10:15 a.m. | Fertility Preservation in Transgender Individuals  
  Speaker: Courtney A. Finlayson, MD  
  Ann & Robert H. Lurie Children's Hospital of Chicago |
| 10:15 a.m. - 10:30 a.m. | Quick Break |
| 10:30 a.m. - 11:15 a.m. | DIVERSITY LECTURE: Transgender Surgery: Crossing Disciplines and Changing  
  *(Introduced by George Gerton, PhD)*  
  Speaker: Marci L. Bowers, MD  
  Trinidad Reproductive Health |
| 11:15 a.m. - 12:30 p.m. | Poster Session II  
  *NOT CME Accredited*  
  *Location: Symphony Ballroom II* |
| 12:30 p.m. - 1:45 p.m. | Lunch (on your own) |
| 12:30 p.m. - 1:45 p.m. | WOMEN IN ANDROLOGY LUNCHEON & DISCUSSION  
  *(Hosted by Jannette Dufour, PhD, WIA Chair)*  
  *Location: Concerto A* |
| 1:45 p.m. - 3:15 p.m. | SYMPOSIUM III - Male Reproductive Tract  
  Moderator: Gail A. Cornwall, PhD |
| 1:45 p.m. - 2:15 p.m. | Role of CRISP Proteins in the Establishment of Male Fertility  
  Speaker: Patricia S. Cuasnicu, PhD  
  Instituto de Biologia y Medicina Experimental, Argentina |
| 2:15 p.m. - 2:45 p.m. | *(DICER)- phering Extracellular MicroRNA Communication in the Epididymis  
  Speaker: Clemence Belleannée, PhD  
  CRCHUQ-Laval University, Canada |
2:45 p.m. - 3:15 p.m.  New Emerging Role for β-Defensins: Players During Epididymal Development  
Speaker: Maria Christina W. Avellar, PhD  
Universidade Federal de São Paulo - Escola Paulista de Medicina, Brazil

3:15 p.m. - 3:30 p.m.  Refreshment Break

3:30 p.m. - 4:15 p.m.  INTERNATIONAL LECTURE: Fertility Restoration by Spermatogonial Stem Cell Transplantation  
(Introduced by Patricia S. Cuasnicu, PhD)  
Speaker: Takashi Shinohara, PhD  
Horizontal Medical Research Organization, Japan

4:15 p.m. - 5:00 p.m.  LECTURE III: Molecular Genetics of External Genitalia Development  
(Introduced by Gail S. Prins, PhD)  
Speaker: Martin J. Cohn, PhD  
Howard Hughes Medical Institute

5:00 p.m. - 6:00 p.m.  ASA Annual Business Meeting

7:00 p.m. - 11:00 p.m.  Annual Banquet  
Location: El Tucán 1111 SW 1st Ave, Miami, 33130 Florida  
Shuttle Bus Available

TUESDAY, APRIL 25, 2017

7:00 a.m. - 8:00 a.m.  2018 Program Committee Meeting

7:00 a.m. - 12:00 p.m.  Registration/Information Desk Open  
Location: Ballroom Registration

7:00 a.m. - 8:00 a.m.  Continental Breakfast  
Location: Symphony Ballroom Foyer

8:00 a.m. - 9:30 a.m.  SYMPOSIUM IV - Testicular Somatic Cells / Spermatogenesis  
Moderator: Kyle Orwig, PhD

8:00 a.m. - 8:30 a.m.  Development and Validation of a Xenograft Model of Human Testicular Development  
Speaker: Rod T. Mitchell  
MRC Centre For Reproductive Health, United Kingdom

8:30 a.m. - 9:00 a.m.  Genetic Causes of Human Azoospermia  
Speaker: Kenneth Aston, PhD  
University of Utah Andrology and IVF Laboratories

9:00 a.m. - 9:30 a.m.  Human Testicular Peritubular Cells  
Speaker: Artur Mayerhofer, PhD  
BioMedizinisches Centrum - BMC LMU Muenchen, Germany

9:30 a.m. - 9:45 a.m.  Refreshment Break

9:45 a.m. - 11:15 a.m.  SYMPOSIUM V - Sperm Function  
Moderator: Pablo E. Visconti, PhD

9:45 a.m. - 10:15 a.m.  Calcium Signaling in Sperm Motility Regulation and Male Fertility  
Speaker: Jean-Ju Chung, PhD  
Yale School of Medicine Biological & Biomedical Sciences

10:15 a.m. - 10:45 a.m.  Genome-independence Progesterone Regulation of Sperm Function  
Speaker: Polina Lishko, PhD  
University of California, Berkeley
10:45 a.m. - 11:15 a.m.  Lipid Regulation of Sperm Function: From Basic Science to a Clinical Test of Male Fertility  
Speaker: Alexander J. Travis, VMD, PhD  
Cornell University

11:15 a.m. - 12:15 p.m.  AUA LECTURE: Regenerative Medicine for Genitourinary Organs  
(Introduced by Joseph P. Alukal, MD)  
Speaker: Anthony Atala, MD  
Wake Forest University School of Medicine  
Director, Wake Forest Institute for Regenerative Medicine

12:15 p.m. - Meeting Adjourned