P.A.R.E.S. *Postings*

Philadelphia Area Reproductive Endocrine Society
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NOVEMBER 2018

President's Greeting

Emelia A. Bachman, M.D.
President

I hope that this message finds you all well. Thank you to everyone who came to our first meeting in September. We are thrilled to host our next meeting on Thursday, November 29th in conjunction with the Delaware Valley Reproductive Biologists Group.

We are delighted that Dr. Santiago Munné will be visiting us from Barcelona to discuss the origins of aneuploidy in the embryo. As you all know, he is the co-founder and current COO of Overture life, and co-founder of Reprogenetics, now CooperGenomics. We hope that you can all join us!

At our last meeting, we voted to welcome another member to the board. We are honored to have Dr. Sharon Anderson, PhD, HCLD join us as our liaison from the Delaware Valley Reproductive Biologists Group. We hope to continue this tradition of collaboration with our embryologist colleagues and combined meetings in the future.

Please, if you have not done so already, renew your membership or become a new member today.

Looking forward to seeing everyone again in November. Wishing you all a very Happy Thanksgiving with your family and friends.

Warmly,

Emelia A. Bachman, M.D.
President

Meet the Board (2018-2019)

Emelia A. Bachman, M.D.
President

Jay Schinfeld, M.D.
President-Elect

Divya Shah, M.D.
Secretary-Treasurer

Oumar Kuzbari, M.D.
Secretary-Treasurer Elect

Ron Feinberg, M.D.
Director at Large

Maureen Kelly, M.D.
Immediate Past President

Sharon Anderson, MS, PhD, ELD, HCLD
Liaison, Delaware Valley Reproductive Biologists Group

CONTENT

Thursday, November 29, 2018

(Joint DVRBG/PARES Meeting)

Origins of Aneuploidy in the Embryo

Santiago Munné, Ph.D.
COO and Co-founder at Overture Life
Founder of Reprogenetics

September 20, 2018 Meeting

Endometrial Receptivity Testing in 2018

Bruce A. Lessey, M.D., Ph. D.

Drs. Sondheimer, Shah, Bachman, Lessey and Coutifaris

September 20, 2018 Meeting

Endometrial Receptivity Testing in 2018

Bruce A. Lessey, M.D., Ph. D.

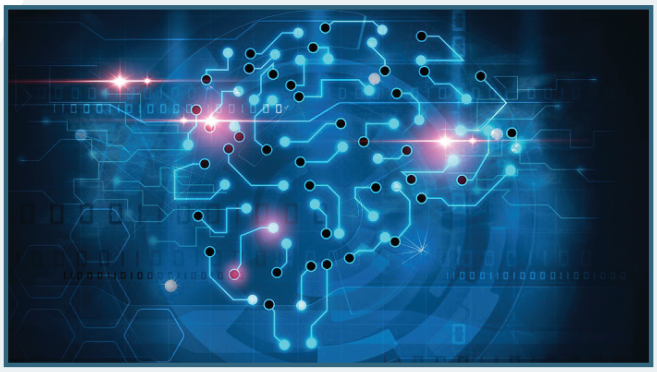
September 20, 2018 Meeting

Endometrial Receptivity Testing in 2018

Bruce A. Lessey, M.D., Ph. D.

Artificial Intelligence
to Choose Embryos with Greatest Potential

Oct 10, 2018
By: ASRM
Origin: ASRM Press Release



Denver, CO- Innovation in embryo grading is taking the form of artificial intelligence systems that can grade embryos and accurately predict ART outcomes. Australian and US groups presented new research Wednesday at ASRM's Scientific Congress and Expo.

A team in the United States has modeled a convolutional neural network to accurately predict the morphological quality of blastocysts based on time lapse images.

The study utilized 50,392 images of 10,148 blastocysts. The blastocysts were assigned quality grades- good, fair, or poor- based on statistically different implantation outcomes. 18,000 of these images were used to train the Inception IV algorithm, then it was tested using the remaining images.

The algorithm was 97.52% accurate in discriminating between poor and good blastocysts

Meanwhile in Australia, Aengus Tran and his colleagues have developed an artificial intelligence system that 93% of the time correctly predicts that a particular embryo will progress to fetal heartbeat. The fully automated system analyzes time lapse video sequences and requires no human input, and thus is not subject to embryologist variability.

The AI was trained to use time lapse videos sequences to analyze the development of embryos and predict by identifying spatial temporal features, independent of maternal age, whether an embryo would result in a pregnancy with a fetal heartbeat. Eight laboratories in four countries participated from 2014 to early 2018.

The 1,603 patients in the study ranged in age from 22 to 50 with an average age of 35.6, and all embryos (10,208 of them) were included regardless of their stage of development or graded quality.

Amy Sparks, PhD, President-Elect of the Society for Assisted Reproductive Technology, SART, commented, "Artificial Intelligence as applied to analyzing embryo quality and potential holds great promise for improving patients' chances of achieving a successful pregnancy sooner rather than later."

O-209 N. Zaninovic et al, Assessing Human Blastocyst Quality Using Artificial Intelligence (AI) Convolutional Neural Network (CNN)

O-265 A. Tran et al, Artificial Intelligence as a Novel Approach for Embryo Selection

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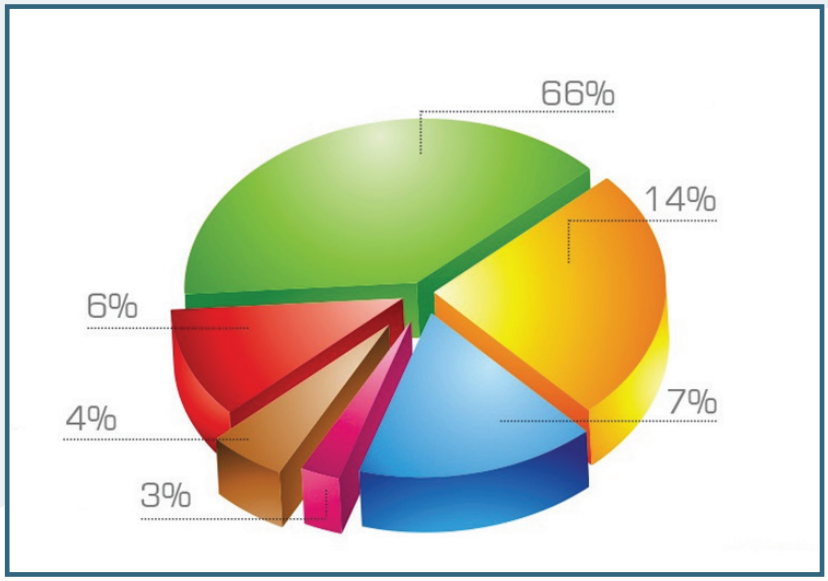
Funding Measure for NIH, CDC and Domestic Reproductive Programs Becomes Law

Sep 28, 2018
By: ASRM
Origin: ASRM Bulletin

Congress approved a $855 billion fiscal year 2019 appropriations bill (HR 6157) that funds multiple agencies of the federal government, including the Departments of Defense, Labor, Education and Health and Human Services. The Senate voted 93-7 and the House voted 361-61 to approve the measure. President Trump signed the measure into law today.

The bill includes a total of $90.5 billion for the Department of Health and Human Services. Importantly, it provides the National Institutes of Health (NIH) with a little over $39 billion for fiscal year 2019, a $2 billion increase to the fiscal year 2018 amount, which will provide a significant boost for important research programs. The Centers for Disease Control and Prevention (CDC) will receive $7.9 billion in funding for fiscal year 2019, $354 million below the fiscal year 2018 enacted level. The Health Resources and Services Administration (HRSA) will receive $6.8 billion, which is $107 million above the fiscal year 2018 enacted level and the Agency for Healthcare Research and Quality (AHRQ) is provided $338 million, $4 million above the fiscal year 2018 enacted level.

The legislation also includes a stopgap funding provision to allow the government to be funded through Dec. 7 to avert a partial shutdown of agencies because not all of the twelve annual appropriations measures will be passed by Congress before the required October 1 deadline. Differences remain between the House and Senate on a third package of four combined funding bills.



The Philadelphia Area Reproductive Endocrinology Society
and
The Delaware Valley Reproductive Biologists Group

Cordially invite you to our joint meeting

Origins of Aneuploidy in the Embryo
Santiago Munné, PhD
COO and Co-founder, Overture Live
Founder, Reprogenetics

Thursday, November 29, 2018
Cocktails 6:00 – 7:00 PM
Dinner followed Lecture and Q/A – 7:00 PM
VENUE: National Liberty Museum, 321 Chestnut Street, Philadelphia

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Reservation Form

For current PARES Members & DVRBG there is no charge
However, prior registration is required –
To register email Teri Wiseley at pares.office@yahoo.com

Non-Members - $80.00 ____ number attending x $80.00 = $_____

Payment by check or *online* at www.paresociety.org

We cannot accept payments at the door.

(If paying by check, please detach and return to our office with your check.)

RSVP's are due no later than Tuesday, November 20th.

Please make your check payable to P.A.R.E.S. and mail it to 308 Rolling Creek Road, Swarthmore, PA 19081.
I will attend the program featuring Santiago Munné, Ph.D. on Thursday, November 29, 2018.

Attendee names _____ _

P.A.R.E.S.

2018-19 Meeting Schedule

Thursday, November 29, 2018
(Joint DVRBG/PARES Meeting)
Origins of Aneuploidy in the Embryo

Santiago Munné, Ph.D.
COO and Co-founder at Overture Life
Founder of Reprogenetics

Thursday, January 10, 2019
JOINT OB/PARES MEETING

Marcelle Cedars, M.D.
Director, Center for Reproductive Health,
University of California San Francisco

Thursday, March 21, 2019

Christos Coutifaris M.D., Ph.D.
Chief, Division of Reproductive Endocrinology and Infertility
Celso-Ramon Garcia Professor
Hospital of the University of Pennsylvania
President, American Society of Reproductive Medicine