

2017

AGENCIA
NACIONAL DE PROMOCION
CIENTIFICA Y TECNOLOGICA



Society for
Reproduction
and Fertility



SPERM MEETS THE EGG, NEW INSIGHTS ABOUT FERTILIZATION

December 20-21, 2017

Auditorio Fundación Instituto Leloir

Av. Patricias Argentinas 435
Ciudad Autónoma de Buenos Aires, Argentina

scientific program

Wednesday

8.00 - 8.45: Registration

8.45 - 9.00: Welcome

Section 1: Sperm Physiology and mechanisms of fertilization. Chairman: Laura Giojalas

9.00 - 9.30: *"Regulation of intracellular pH in human sperm"*

Claudia Treviño (Instituto de Biotecnología, UNAM, Mexico).

9.30 - 10.00: *"Transport of proteins along microtubules: relevance to male fertility"*

María Eugenia Teves (Virginia Commonwealth University, USA).

10.00 - 10.30: *"Recombinant calcium transport inhibitor: role in capacitation and emergent biotechnological tool"*

Andreina Cesari (Instituto de Investigaciones Biológicas, Argentina).

10.30 - 11.15: Coffee Break

11.15 - 11.45: *"Chemoattraction or chemorepulsion: that is the question"*

Alejandro Guidobaldi (Universidad Nacional de Cordoba, Argentina).

11.45 - 12.15: *"From fertilization to immune system"*

Patricia Cuasnicu (Instituto de Biología y Medicina Experimental, Argentina).

12.15 - 14.15: Lunch

Section 2: Molecular mechanisms underlying sperm capacitation. Chairmans: Clara Marin Brigglier and Juan Manuel Teijeiro

14.15 - 14.45: *"Role of the SLO3 sperm-specific potassium channel in human sperm"*

Celia Santi (Washington University, USA).

14.45 - 15.15: *"Involvement of the cAMP transporter (MRP4) in the regulation of sperm capacitation"*

Silvina Perez Martinez (Centro de Estudios Farmacológicos y Botánicos, Argentina).

15.15 - 16.00: Coffee Break

16.00 - 16.30: *"Non-canonical regulation of PKA during sperm capacitation"*

Dario Krapf (Instituto de Biología Molecular y Celular de Rosario, Argentina).

16.30 - 17.00: *"Structural organization of the actin cytoskeleton of the mouse sperm flagellum"*

Pablo Visconti (University of Massachusetts, USA).

Thursday

Section 3: Sperm organelles: Acrosome and mitochondrias. Chairman: Lucrecia Calvo

- 9.00 - 9.30: *"Bypassing the plasma membrane to study the human sperm acrosome reaction"*
Luis S. Mayorga (Instituto De Histología y Embriología "Dr. Mario H. Burgos", Argentina).
- 9.30 - 10.00: *"Regulation of mammalian sperm acrosomal exocytosis"*
Mariano Buffone (Instituto de Biología y Medicina Experimental, Argentina).
- 10.00 - 10.30: *"Sperm Mitochondrias: new challenges for old questions"*
Rossana Sapiro (Universidad de la República de Uruguay, Uruguay).
- 10.30 - 11.15: Coffee break

Section 4: Mammalian oocytes and early embryo development. Chairman: Mónica Vazquez-Levin

- 11.15 - 11.45: *"TRP channels as key regulators for calcium influx during oocyte maturation and early embryo development"*
Ingrid Carvacho (Universidad Católica de Maule, Chile).
- 11.45 - 12.15: *"Tankyrases regulate embryonic genome activation after fertilization"*
Andres Gambini (NIEHS/NIH, USA) / Facultad de Agronomía, UBA, Argentina).
- 12.15 - 14.15: Lunch

Section 5: Oocyte meiosis and egg activation. Chairman: Debora Cohen

- 14.15 - 14.45: *"Approaches to understanding roles of Aurora kinase B during mouse oocyte meiosis"*
Cecilia Begnini (Reutgers University, USA).
- 14.45 - 15.15: *"How Ca²⁺ and CaMKII are regulated during egg activation"*
Rafael Fissore (University of Massachusetts, USA).
- 15.15 - 16.00: Coffee break

Section 6: Molecular basis of crossing barriers in reproduction. Chairman: Patricia Saragüeta

- 16.00 - 16.30: *"Species-specific genome-wide signatures in the South American Jaguar (Panthera onca)"*
Patricia Saragüeta (Instituto de Biología y Medicina Experimental, Argentina).
- 16.30 - 17.00: *"Evolution of genes and traits associated to the fertilizing capacity of mammalian sperm"*
Eduardo Roldan (Museo Nacional de Ciencias Naturales, España).
- 17.00 - 17.30: *"Molecular basis of species-specific egg-sperm interaction: from human to mollusk... and back"*
Luca Jovine (Karolinska Institute, Sweden).
- 17.30 - 18.00: Closing Remarks

Organizers: Silvina Perez Martinez, Mariano Buffone and Dario Krapf

Info and registration: Secretaria SAA, Adriana Conca: saa@saa.org.ar