



INTERNATIONAL SYMPOSIUM ON REPRODUCTIVE HEALTH: OVERCOMING BARRIERS FOR RESEARCH IN REPRODUCTION.

INTERNATIONAL SYMPOSIUM ON REPRODUCTIVE HEALTH: Overcoming barriers for research in reproduction.

Program

Date: May 7th 2021.

The detailed time zone corresponds to GMT-3: Argentina and Brazil (São Paulo) and GMT. Please check your time zone.

9:30 am GMT-3 / 12:30 pm GMT Join the online symposium.

9:45 am GMT-3 / 12:45 am GMT Opening remarks.

10:00 am - 11:15 am GMT-3 / 1:00 pm - 2:15 pm GMT **Session 1: Maternal-fetal interface.**

Chair: *Dr. Maria Laura Ribeiro, CEFYBO, University of Buenos Aires-CONICET, Argentina.*

Co-Chair: *Dr. Eric Rhon Calderón, Epigenetics Institute, Department of Cell and Developmental Biology, Perelman School of Medicine, University of Pennsylvania. Philadelphia, PA. USA.*

10:00-10:20 am GMT-3 / 1:00-1:20 pm GMT

Dr. Amanda Sferruzzi-Perri, University of Cambridge, UK.

“The role of the placenta in linking maternal and fetal developmental physiology”

10:20-10:40 am GMT-3 / 1:20-1:40 pm GMT

Dr. Dolores Busso, Centro de Investigación e Innovación Biomédica, Facultad de Medicina, Universidad de los Andes, Chile.

“Maternal vitamin E provision via the yolk sac is required for embryo neurulation: lessons from HDL receptor SR-B1 KO mice”





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10:40-10:50 GMT-3 / 1:40-1:50 GMT

Laíza Vianna Arruda Kíssila Rabelo, Natália Gedeão Salomão, Estela Maris Andrade Forell Bevilaqua, Sheila Maria Barbosa de Lima, Gisela Freitas Trindade, Fernanda Verdini Guimarães, Patrícia Machado Rodrigues e Silva Martins, Jorge José de Carvalho, Marciano Viana Paes and Antônio José da Silva Gonçalves

Interdisciplinary Medical Research Laboratory - Oswaldo Cruz Institute - FIOCRUZ- RJ- Brazil.

Ultrastructural changes and oxidative stress in the trophoblastic Cell Line HTR8 / SVneo induced by Zika Virus infection

10:50-11:00 GMT-3 / 1:50-2:00 GMT

Dr. Ramiro Alarcon, Cagliaris, María Luz; Muñoz-de-Toro, Mónica; Luque, Enrique Hugo; Ingaramo, Paola Inés.

Instituto de Salud y Ambiente del Litoral (Facultad de Bioquímica y Ciencias Biológicas, Universidad Nacional del Litoral - CONICET), Argentina

Glyphoste-based herbicide alters decidual angiogenesis in neonatally exposed rats

11:00-11:15 GMT-3 / 2:00-2:15 GMT Round table.

11:15-11:30 pm GMT-3 / 2:15-2:30 pm GMT Break.





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11:30-12:45 pm GMT-3 / 2:30-3:45 pm GMT **Session 2: ART's effects on embryo and offspring development.**

Chair: Dr. Sebastián Canovas. Associate Professor, Department of Physiology. University of Murcia, Spain

Co-chair: Dr. Priscila Ramos-Ibeas, Animal Reproduction Department National Institute for Agriculture and Food Research and Technology (INIA), Madrid, Spain

11:30-11:50 am GMT-3 / 2:30-2:50 GMT

Dr. Rita Vassena, Eugin, Spain.

"ART with donated gametes: maternal and perinatal outcomes".

11:50-12:10 am GMT-3 / 2:50-3:10 GMT

Dr. Marisa Bartolomei, University of Pennsylvania, USA.

"Assisted Reproductive Technologies: Epigenetic impacts and long-term outcomes"

12:10-12:20 GMT-3 / 3:10-3:20 GMT

Kinga Fic, BSc, Simona Bisogno, Grazyna Ewa Ptak.

Malopolska Centre of Biotechnology. Jagiellonian University, Krakow, Poland

Altered body weight of mouse offspring born after embryo transfer is preserved in the second generation.





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12:20-12:30 GMT-3 / 3:20-3:30 GMT

Natacha Salomé Lima PhD MSc and A. Gustavo Martínez PhD.

National Scientific and Technical Research Council (CONICET) Argentina. Universidad de Buenos Aires, Facultad de Psicología, Buenos Aires, Argentina.

Bioethical challenges posed by surplus frozen embryos: strategies to facilitate embryo disposition decisions in Ibero-American Countries of Catholic Cultural Tradition.

12:30-12:45 GMT-3 / 3:30-3:45 GMT Round table.

12:45-2:15 pm GMT-3 / 3:45-5:15 pm GMT **Poster Session + [Social event A](#)**





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2:15-3:30 pm GMT-3 / 5:15-6:30 pm GMT **Session 3: Paternal effects on fertility and offspring health.**

Chair: *Dr. Silvina Perez Martinez, CEFYBO, University of Buenos Aires-CONICET, Argentina.*

Co-Chair: *Dr. Renata Tavares, PI of the Contraception, Endocrine Disruptors and Fertility research line, Biology of Reproduction and Stem Cells Group, Center for Neuroscience and Cell Biology (CNC-UC), University of Coimbra, Portugal and Institute of Interdisciplinary Research (IIIUC), University of Coimbra, Portugal*

2:15-2:35 pm GMT-3 / 5:15-5:35 pm GMT

Dr. Adam Watkins, University of Nottingham, UK.

“Dads, diet and disease; the paternal programming of offspring health”

2:35-2:55 pm GMT-3 / 5:35-5:55 pm GMT

Dr. Maria Gracia Gervasi, University of Massachusetts (UMass), USA.

“Effects of sperm manipulation on early embryo development after in vitro fertilization in the mouse”

2:55- 3:05 GMT-3 / 5:55-6:05 pm GMT

Laura Paolucci Neuenschwander Maciel¹; Rafaella Costa Rubim Sacramento¹; John Lennon de Paiva Coimbra¹; Carine Dahl Corcini²; Antonio Sergio Varela Junior²; Elisa Rossi Komninou²; Helio Chiarini-Garcia¹; Fernanda Radicchi Campos Lobato de Almeida¹

1 - Department of Morphology, Institute of Biological Sciences, Federal University of Minas Gerais, Av. Antônio Carlos, 6627, 31.270-901, Belo Horizonte, Brazil.

2 - Department of Animal Pathology, Federal University of Pelotas

Seminiferous tubule length and sperm production in low birth weight sexually matured male pigs





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3:05-3:15 GMT-3 / 6:05-6:15 pm GMT

Sara Ruiz-Díaz ^{1,2}, Lombó M¹, Morillas L¹, Sanchez JM¹, Oseguera-López I³, De La Cuesta-Díaz D¹, García-López B¹, Serres C⁴, Sanchez-Calabuig MJ⁴, Perez-Cerezales S¹, Gutiérrez-Adán A¹.

1-Department of Animal Reproduction, National Institute for Agriculture and Food Research and Technology (INIA), 28040 Madrid, Spain.2-Mistral Fertility Clinics S.L., Clínica Tambre, 28002 Madrid, Spain.3-Unidad Iztapalapa, Universidad Autónoma Metropolitana, Ciudad de México 09340, Mexico.4-Departamento de Medicina y Cirugía Animal, Facultad de Veterinaria, Universidad Complutense de Madrid (UCM), 28040 Madrid, Spain.

Sperm selection by thermotaxis in bull and stallion

3:15-3:30GMT-3 / 6:15-6:30 pm GMT Round table.

3:30-3:45 pm GMT-3 / 6:30-6:45 GMT Break.





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3:45-5pm GMT-3 / 6:45-8pm GMT **Session 4: Maternal effects on pregnancy and offspring health.**

Chair: Dr. Estela Bevilacqua, *Lab for Maternal-Fetal Interactions and Placenta Research*
Dept of Cellular and Developmental Biology, Institute of Biomedical Sciences, University of São Paulo, Brazil.

Co-Chair: Dr. Jorge Lopez-Tello, *Centre for Trophoblast Research, Department of Physiology, Development & Neuroscience, University of Cambridge, Cambridge, United Kingdom*

3:45-4:05 pm GMT-3 / 6:45-7:05 pm GMT

Dr. Elena Zambrano, departamento de Biología de la Reproducción, Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, México.

“Maternal nutrition, past, present and future: building the path to health and disease”

4:05-4:25 pm GMT-3 / 7:05-7:25 pm GMT

Dr. Pablo Nepomnaschy, Simon Fraser University (SFU), Canada.

“Maternal physiologic stress as a modulator of children's developmental trajectories.”

4:25-4:35 GMT-3 / 7:25-7:35 pm GMT

Lic. Dalmiro Gomez Ribot¹, Esteban Díaz², María Victoria Fazio², Hebe Lorena Gómez², Carlos Gresta², Evangelina Capobianco¹, Alicia Jawerbaum¹

1-Laboratory of Reproduction and Metabolism, CEFYBO CONICET, School of Medicine, University of Buenos Aires, Argentina. 2-Hospital General de Agudos Dr. Ignacio Pirovano, Buenos Aires, Argentina.

A diet enriched in extra virgin olive oil prevents placental morphologic alterations and maternal serum matrix metalloproteinases overactivity in GDM patients.





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4:35-4:45 GMT-3 / 7:35-7:45 pm GMT

Daniela Mennickent Bsc. ^{1,2}, Andrés Rodríguez ^{2,3}, Juan Araya ^{2,4}, Enrique Guzmán-Gutiérrez ^{1,2}

1- Departamento de Bioquímica Clínica e Inmunología, Facultad de Farmacia, Universidad de Concepción, Chile. 2- Machine Learning Applied in Biomedicine (MLAB), Chile.

Machine learning reveals maternal thyroid variables as a potential tool to improve the diagnosis of gestational diabetes mellitus.

4:45-5:00 GMT / 7:45-8:00 pm GMT Round table.

5:00-5:30 pm GMT-3 / 8:00-8:30 pm GMT **Concluding remarks and announcement of awardees.**

5:30- 6:30 pm GMT-3 / 8:30- 9:30 pm GMT **[Social Event B](#) - Join us at the virtual hall.**

