



Scientific Program

III International Symposium on Animal Biology of Reproduction (ISABR 2010)



Focus on Epigenetics

October 22-24, 2010, Águas de São Pedro, SP, Brazil

October 21, 2010 - Thursday

18:00 to 21:00: **Welcome desk open.**

October 22, 2010 - Friday

07:30 to 18:00: **Welcome desk open.**

09:15: **Welcome.**

Concepts on epigenetics

09:30 to 10:10

Dr. Kjersti M. Aagaard-Tillery (Baylor College of Medicine, USA).

Epigenetics and reproduction and the developmental origins of health and disease.

10:10 to 10:50

Dr. Brian D. Strahl (University of North Carolina, USA).
Epigenetic regulation of gene transcription via histone modifications.

10:50 to 11:50: **Coffee break and Poster session I.**

11:50 to 12:30

Dr. Luiz L. Coutinho (Universidade de São Paulo, Brazil).

Discovery, profiling and identification of polymorphic mRNA target sites in cattle.

12:30 to 14:30: **Lunch break.**

Epigenetics and female reproduction

14:30 to 15:10

Dr. Lane Christenson (University of Kansas Medical Center, USA).

MicroRNA control of ovarian function.

15:10 to 15:50

Dr. Jens Vanselow (Leibniz Institute for Farm Animal Biology, Germany).

Epigenetic control of folliculogenesis and luteinization.

15:50 to 16:30: **Coffee break.**

16:30 to 17:10

The Outstanding Brazilian Reproductive Biologist Lecture.

Dr. Paulo Bayard Dias Gonçalves (Universidade Federal de Santa Maria, Brazil).

Role of Angiotensin II on follicle development and ovulation.

17:10 to 17:50: **Platform short presentations - Session I.**

- *Bovine sperm protamination gene expression profile* - M.A.M.M. Ferraz, R. Simões, M.P. Milazzotto, J.A. Visintin, M.E.O.A. Assumpção.
- *Effects of FSH on expression of mRNA encoding fibroblast growth factors receptors (FGFRs) in bovine cumulus cells submitted to in vitro maturation* - E.S. Caixeta, M.F. Machado, P. Ripamonte, P.F. Lima, A.C.S. Castilho, R. Bueno da Silva, C.M. Barros, C.A. Price, J. Buratini Jr.
- *Estimate of the population of preantral follicles in the ovaries of Bos taurus indicus and Bos taurus taurus females* - K.C.F. Silva, L.S. Siloto, G.M.G. Santos, M.F. Hertel, E.R. Andrade, J.T. Santos, A. Ciquini, M.I.B. Rubin, F.A.M. Sterza, M.M. Seneda.
- *FGF10 inhibits follicular growth and decreases aromatase mRNA expression and estradiol secretion in bovine granulosa cells* - B.G. Gasperin, J.T. Santos, M. Rovani, R. Ferreira, J. Buratini Jr, C.A. Price, P.B.D. Gonçalves.

Keynote lecture and tribute to:

18:00 to 19:00

Dr. Bruce D. Murphy (Université de Montréal, Canada).
Orphan nuclear receptor regulation of reproduction.

October 23, 2010 - Saturday

07:30 to 18:00: **Welcome desk open.**

Epigenetics and male reproduction

08:30 to 09:10

Dr. John McCarrey (University of Texas at San Antonio, USA).

Effects of exogenous endocrine stimulation on epigenetic programming of the female germline genome.

09:10 to 09:50

Dr. Carlos Guerrero-Bosagna (Washington State University, USA).

Transgenerational epigenetic actions of environmental compounds.

09:50 to 10:50: **Coffee break and Poster Session II.**

10:50 to 11:30

The Lonnie Russel Lecture.

Dr. Louis Hermo (McGill University, Canada).

Complex alterations in structure and function associated with loss of function of specific genes/proteins in the male reproductive system.



11:30 to 12:30: **Platform short presentations - Session II.**

- *Investigation of potential specific markers for spermatogonial stem cells in the Nile Tilapia (*Oreochromis niloticus*) - S.M.S.N. Lacerda, G.M.J. Costa, P.H.A. Campos-Jr, M-C. Hofmann, L.R. França.*
- *Kininogen and bradykinin receptor type 2 expression and kallikrein-like activity in bovine follicles during the ovulatory process - G.F. Ilha, K. Gutierrez, J.T. Santos, L.F. Possebon, R. Ferreira, P.B. Gonçalves, J.F. Oliveira.*
- *Leydig and Sertoli cell numbers are significantly increased in Inducible Nitric Oxide Synthase (iNOS) adult mutant-mice - S.A. Auharek, N.L.M. Lara, G.F. Avelar, L.R. França.*
- *Loss of methylation at H19 DMR is associated with low implantation rates of somatic cell nuclear transfer bovine blastocysts - J. Suzuki Jr., R. Lefebvre, J. Therrien, F. Fillion, F. Perecin, F. Meirelles, A.K. Goff, L.C. Smith.*

12:30 to 16:30: **Lunch break - traditional Brazilian meal and music ("Feijoada e Chorinho").**

Epigenetics and fertility

16:30 to 17:10

Marisa Bartolomei (University of Pennsylvania School of Medicine, USA).

Is ART changing the epigenetic landscape of imprinting?

17:10 to 17:50

Bernard Robaire (McGill University, Canada).
Sperm chromatin integrity and fertility.

17:50 to 18:30: **Coffee break.**

18:30 to 19:10

Frontiers of Science - Lecture I

Fábio D'Alexandri (Karolinska Institutet, Sweden)
Reproductive biology in the "Omics" era: What can be done?

19:10 to 20:10 - **Platform short presentations - Session III.**

- *Pre- and postimplantational development of bovine cloned embryos derived after treatment with Trichostatin A - J.R. Sangalli, T.H.C. de Bem, F. Perecin, F.V. Meirelles.*
- *Supplementation of histone deacetylase inhibitor trichostatin A on in vitro culture of bovine embryos - C.S. Oliveira, N.Z. Saraiva, M.M. Souza, T.A.D. Tetzner, M.R. Lima, R. Vantini, J.M. Garcia.*
- *The association between pre- and postnatal protein undernourishment and testicular temperature after weaning over somatic and germ cell numbers in adult rats - M.C. Melo, F.R.C.L. Almeida, H. Chiarini-Garcia.*
- *The nuclear receptor Nr5a2 regulates connexin 43 expression in mouse ovarian granulosa cells in vivo - K. Bertolin, R. Duggavathi, G. Zamberlam, B. Murphy.*

October 24, 2010 - Sunday

07:30 to 10:00: **Welcome desk open.**

Epigenetics and reproductive biotechnologies

08:30 to 09:30: **Coffee break and Poster Session III.**

09:30 to 10:10

Dr. Goro Yoshizaki (Tokyo University of Marine Science and Technology, Japan).

Sexual plasticity of rainbow trout germ cells.

10:10 to 10:50

Lawrence Smith (Université de Montréal, Canada).

Epigenetic anomalies associated with prenatal survival and neonatal morbidity in cloned calves.

10:50 to 11:30

Frontiers of Science - Lecture II.

Dr. José Cibelli (Michigan State University, USA).

Epigenetic changes during nuclear reprogramming.

11:30: **Closing Ceremony.**

Organizer

Brazilian College of Animal Reproduction (CBRA)

Sponsors and Partners





Scientific Committee

Chairperson

Dr. Mário Binelli, USP/FMVZ, São Paulo, SP, Brazil.

Members

Dr. Alexandre Vaz Pires, USP/ESALQ, Piracicaba, SP.
Dr. André Furugen Cesar de Andrade, USP/FMVZ, São Paulo, SP.
Dr. Antônio Pinho Marques Júnior, UFMG/EV, Belo Horizonte, MG.
Dr. Arlindo de Alencar Araripe Moura, UFC, Fortaleza, CE.
Dr. Bruce Murphy, Université de Montréal, Canada.
Dr. Camila Infantsi Vannucchi, USP/FMVZ, São Paulo, SP.
Dr. Carlos Eduardo Ambrósio, USP/FZEA, Pirassununga, SP.
Dr. Carlos Guerrero-Bosagna, Washington State University, USA.
Dr. Christina Ramirez Ferreira, UNICAMP/IQ, Campinas, SP.
Dr. Christopher Price, Université de Montréal, Canada.
Dr. Cláudia Barbosa Fernandes, USP/FMVZ, São Paulo, SP.
Dr. Cláudia Lima Verde Leal, USP/FZEA, Pirassununga, SP.
Dr. Claudia Maria Bertan Membrive, UNESP/FZ, Dracena, SP.
Dr. Cláudio Alvarenga de Oliveira, USP/FMVZ, São Paulo, SP.
Dr. Cleida Aparecida de Oliveira, UFMG/ICB, Belo Horizonte, MG.
Dr. Dan Arnold, UNESP/FCAV, Jaboticabal, SP.
Dr. Danila Barreiro Campos, UFPB, Areia, PB.
Dr. Eduardo Leite Gastal, Southern Illinois University Carbondale, USA.
Dr. Eneiva Carla Carvalho Celeghini, USP/FMVZ, São Paulo, SP.
Dr. Erica Zimmerknopf, FEOB/FMV, São João da Boa Vista, SP.
Dr. Fabíola Freitas de Paula Lopes, UNIFESP, Diadema, SP.
Dr. Felipe Perecin, USP/FZEA, Pirassununga, SP, Brazil.
Dr. Fernanda da Cruz Landim-Alvarenga, UNESP/FMVZ, Botucatu, SP.
Dr. Fernando Silveira Mesquita, USP/FMVZ, São Paulo, SP.
Dr. Flavia Lombardi Lopes, UNESP/FCAV, Jaboticabal, SP.
Dr. Frederico Ozanan Papa, UNESP/FMVZ, Botucatu, SP.
Dr. Guilherme de Paula Nogueira, UNESP/FO, Araçatuba, SP.
Dr. Hugo Pereira Godinho, PUC Minas, Belo Horizonte, MG.
Dr. João Carlos Pinheiro Ferreira, UNESP/FMVZ, Botucatu, SP.
Dr. João Francisco Coelho de Oliveira, UFSM, Santa Maria, RS.
Dr. José Buratini Jr, UNESP/IB, Botucatu, SP.
Dr. Lane Christenson, University of Kansas Medical Center, USA.
Dr. Lílian de Jesus Oliveira, USP/FZEA, Pirassununga, SP.
Dr. Luciano Andrade Silva, USP/FZEA, Pirassununga, SP.
Dr. Luiz Renato de França, UFMG/ICB, Belo Horizonte, MG.
Dr. Mara Iolanda Batistela Rubin, UFSM, Santa Maria, RS.
Dr. Marcella Pecora Milazzotto, UFABC, Santo André, SP.
Dr. Marcelo Fabio Gouveia Nogueira, UNESP/FCLA, Assis, SP.
Dr. Marcelo Marcondes Seneda, UEL, Londrina, PR.
Dr. Marcelo Rezende Luz, UFES, Alegre, ES.
Dr. Marco Antônio Alvarenga, UNESP/FMVZ, Botucatu, SP.
Dr. Maria Denise Lopes, UNESP/FMVZ, Botucatu, SP.
Dr. Marisa Bartolomei, University of Pennsylvania School of Medicine, USA.
Dr. Mathew C Lucy, University of Missouri, USA.
Dr. Mayra Elena Ortiz D'Ávila Assumpção, USP/FMVZ, São Paulo, SP.
Dr. Nasser Chegini, University of Florida, USA.
Dr. Otávio Mitio Ohashi, UFPA, Belém, PA.
Dr. Paula de Carvalho Papa, USP/FMVZ, São Paulo, SP.
Dr. Paula Ripamonte Figueiredo, NEOBIO, Botucatu, SP.
Dr. Paulo Bayard Dias Gonçalves, UFSM, Santa Maria, RS.
Dr. Roberto Sartori Filho, USP/ESALQ, Piracicaba, SP.
Dr. Rui Machado, Embrapa/CPPE, São Carlos, SP.
Dr. Valquíria Barnabé, USP/FMVZ, São Paulo, SP.
Dr. Vilceu Bordignon, McGill University, Montreal, Canada.
Dr. Wilma de Grava Kempinas, UNESP/IB, Botucatu, SP.

Organizing Committee

Chairperson

Dr. Rodrigo Costa Mattos, UFRGS/FV, Porto Alegre, RS, Brazil.

Members

Dr. Antônio Pinho Marques Júnior, UFMG/EV, Belo Horizonte, MG.
Dr. Fernando Silveira Mesquita, FMVZ/USP, Pirassununga, SP.
Dr. Luiz Renato de França, UFMG/ICB, Belo Horizonte, MG.
Dr. Mario Binelli, FMVZ/USP, Pirassununga, SP.

Dr. Marcos Chiaratti, FZEA/USP, Pirassununga, SP.
Sr. Henderson Ayres, FMVZ/USP, São Paulo, SP.
Sra. Fabiana Fernandes Bressan, FZEA/USP, Pirassununga, SP.
Sra. Flavia Regina de Oliveira Barros, FMVZ/USP, São Paulo, SP.
Sra. Julia Baldrighi, FMVZ/USP, São Paulo, SP.
Sra. Juliana Sinhorini, FMVZ/USP, São Paulo, SP.
Sra. Roberta Machado Ferreira, FMVZ/USP, São Paulo, SP.