Chair Dr. Paulo CF Mathias

Thank you for your support and participation

We are greatly proud to have the participation of the congress sponsors and exhibitors and would like to thank all of you for the tremendous support! We would also like to extend our appreciation to all of person and supporting partners for making this symposium successful.

We hope to meet all of you in Ponta Grossa/PR – Brazil.
Day 1 - Chair: Júlio C. de Oliveira
Thursday 13th, Morning - (Session 1; 09h:00min - 10h:55min)

Welcome session
Opening session of the 4th International Symposium on Metabolic Program and Stress

Introductory Welcome lecture - (09h:00min - 09h:20min)

Against pandemic cardiometabolic diseases: let’s celebrating the 4th International Symposium on Metabolic Program & Stress and the 1st Meeting of Ibero-American Chapter of DOHaD International Society.
Paulo C.F. Mathias
Universidade Estadual de Maringá, Maringá, Paraná - Brazil
pcfmathias@gmail.com

Conference Lect.001 - (09h:20min - 09h:50min)

Designer G protein-coupled receptors as useful tools to identify novel targets for the treatment of obesity and type 2 diabetes
Jürgen Wess
National Institutes of Health, NIDDK, Bethesda, Maryland - USA
jurgenw@helix.nih.gov

Short communication SC001 - (09h:50min - 10h:00)

Low birth weight is associated with impairment of memory related to food in adolescents
Amanda B. Mucellini
PPG of Medical Sciences: Psychiatry of UFRGS, Porto Alegre/RS - Brazil
amandabmuc@gmail.com

Conference Lect.002 - (10h:00min - 10h:30min)

Protein malnutrition programming of mitochondria function and insulin secretion in manourished obese mice
Claudio C. Zoppi
Laboratory of Endocrine Pancreas and Metabolism - IB UNICAMP, Campinas/SP - Brazil
claudiozoppi@hotmail.com

Discussion - (10h:30min - 10h:55min)

Break - (10h:55min - 11h:05min)
Day 1 - Chair: Kesia Palma-Rigo

Thursday 13th, Morning - (Session 2; 11h:05min - 12h:50min)

Conference Lect.003 – (11h:05min – 11h:35min)

Leptin as imprinting factor to programming obesity and insulin resistance
Egberto G. de Moura
Laboratório de Fisiologia Endócrina, Departamento de Ciências Fisiológicas, IBRAG, Universidade do Estado do Rio de Janeiro – ERJ, Rio de Janeiro/ RJ - Brazil
egbertomoura@globo.com

Short communication SC002 – (11h:35min – 11h:45)

Effects of environmental enrichment on behavior in a rat model of hyperleptinemia neonatal programming.
Dayse G. Correa-Almeida
Laboratório de Fisiologia Endócrina, Departamento de Ciências Fisiológicas, IBRAG, Universidade do Estado do Rio de Janeiro – ERJ, Rio de Janeiro/ RJ - Brazil
dayse.correa@ig.com.br

Short communication SC003 – (11h:45min – 11h:55)

Maternal high-fat diet and its influence on the endocannabinoid system of male and female offspring rats at weaning
Juliana G. Franco
Federal University of Rio de Janeiro, Rio de Janeiro/ RJ - Brazil
franco.julianaq@gmail.com

Conference Lect.004 – (11h:55min – 12h:25min)

Metabolic programming and endocannabinoid system
Isis H. Trevenzoli
Laboratório de Endocrinologia Molecular, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro – UFRJ, Rio de Janeiro/ RJ - Brazil
haraisis@yahoo.com.br

Discussion – (12h:25min – 12h:50min)

Lunch - This lunch is included on the registration - (12h:50min - 14h:20min)
Day 1 - Chair: Elena Zambrano

Thursday 13th, Afternoon - (Session 1; 14h:20min - 16h:15min)

Conference Lect.005 – (14h:20min – 14h:50min)

**Cortisol stress response after nutritional recovery in previously undernourished children**
Ana L. Sawaya
Departamento de Fisiologia, Universidade Federal de São Paulo - UNIFESP, São Paulo/SP - Brazil
vifisio@yahoo.com.br

Short communication SC004 - (14h:50min - 15h:00)

**Maternal cafeteria-style diet during lactation induces obesity and alters leptin and insulin crosstalk in the hypothalamus in offspring at adulthood**
Rodrigo M. Gomes
Departamento de Biotecnologia, Genética e Biologia Celular, Laboratório de Biologia Celular da Secreção, Universidade Estadual de Maringá, Maringá/PR - Brazil
rodgimellogomes@hotmail.com

Short communication SC005 - (15h:00min - 15h:10)

**Role of birth weight on cardiac autonomic modulation of child and adolescent**
Livia V. de Souza
Laboratory of Birth Weight and Growth, Federal University of São Paulo, São Paulo/SP - Brazil
liviavictorino@gmail.com

Short communication SC006 - (15h:10min - 15h:20)

**Effects of histidine and cimetidine on the progression and differentiation in mice melanoma**
Juliana Berton
Pharmaceutical Sciences Post-graduation Program, State University of Ponta Grossa (EPG)/UNICENTRO, Ponta Grossa/PR - Brazil
juberton1@hotmail.com

Conference Lect.006 - (15h:20min - 15h:50min)

**Flaxseed supplementation during lactation programs adiposity and hormonal function in adult offspring**
Mariana S. Figueiredo
Laboratório de Fisiologia Endócrina, Departamento de Ciências Fisiológicas, IBRAG, Universidade do Estado do Rio de Janeiro - ERJ, Rio de Janeiro/RJ - Brazil
marisartof@gmail.com

Discussion - (15h:50min - 16h:15min)

Coffee-break in Poster Session 1 - (PSI.001 – PSI.021) (16h:15min - 17h:15min)
Day 1 - Chair: Rosiane A. Miranda

Thursday 13th, Afternoon - (Session 2; 17:30min - 18:55min)

Conference Lect.007 – (17:20min – 17:50min)

Effects of hydroalcoholic extracts from Syzygium cumini leaf on metabolic parameters of polycystic ovaries syndrome rats

Antonio M.A. Paes
Laboratório de Fisiologia Experimental, Departamento de Ciências Fisiológicas, Universidade Federal do Maranhão, São Luís/ MA - Brazil
marcuspaes@ufma.br

Short communication – SC007 – (17h:50min – 18h:00min)

High-sugar but isocaloric diet promotes obesity associated with nonalcoholic steatohepatitis: biochemical and histological aspects

Lucas M. França
Laboratory of Experimental Physiology, Department of Physiological Sciences, Federal University of Maranhão, São Luis/MA - Brazil
marcuspaes@ufma.br

Conference Lect.008 – (18h:00min – 18h:30min)

Strategies to assess causality in observational studies

Alicia Matijasevich
Department of Preventive Medicine, School of Medicine, University of São Paulo, São Paulo/ SP - Brazil & Post-Graduate Program in Epidemiology, Federal University of Pelotas, Pelotas/ RS - Brazil
alicia.matijasevich@usp.br

Discussion – (18h:30min – 18h:55min)
Day 1 - Chair: Paulo C.F. Mathias
Thursday 13th, Evening- (Welcome session; 20h:15min - 20h:45min)

Welcome session

Introductory Welcome lecture - (20h:15min - 20h:45min)

Opening session of the 1st Meeting of Ibero-American Chapter of DOHaD
Francisco Mardones
Pontificia Universidad Católica de Chile, Santiago - Chile
mardones@med.puc.cl

Welcoming Dinner - (Included on the registration)
Day 2 - Chair: Patrícia C. Lisboa  
Friday 14th, Morning (Session 1; 09h:00min - 10h:55min)

Conference Lect.009 – (09h:00min - 09h:30min)

How glucocorticoids can be useful for elaboration of experimental models of metabolic programing?  
Alex Rafacho  
Laboratory of Investigation in Chronic Diseases, Department of Physiological Sciences, Federal University of Santa Catarina, Florianópolis/SC – Brazil  
alex.rafacho@ufsc.br

Short communication SC008 – (09h:30min - 09h:40min)

Aerobic training normalizes pro-inflammatory cytokines in intrauterine growth restricted rats: possible involvement of Toll Like Receptor-9 and circulating mitochondrial DNA  
Vanessa Oliveira  
Nephrology Division, School of Medicine, Federal University of São Paulo, Brazil;  
vanessa.nefro@gmail.com

Short communication SC009 – (09h:40min - 09h:50min)

Previous early but not late short-term moderate exercise, protect the metabolism against high fat diet: The end of metabolic programming windows  
Laize P. Tófolo  
Laboratory of Secretion Cell Biology, Department of Biotechnology, Genetics and Cell Biology, State University of Maringá, Maringá/PR – Brazil  
laizeperon@hotmail.com

Short communication SC010 – (09h:50min - 10h:00min)

Intrauterine programming and dyslipidemia in Chilean children  
Francisco Mardones  
Division of Pediatrics, Departments of Public Health, Faculty of Medicine – Pontificia Universidad Católica de Chile, Santiago – Chile  
mardones@med.puc.cl or salesa.barja@gmail.com; sbarja@uc.cl

Conference Lect.010 – (10h:00min - 10h:30min)

Gestational diabetes and miscarriages  
Gloria Larrabure-Torrealeva  
Physician, Endocrinologist, Lima – Peru  
gloria.larrabure@gmail.com

Discussion – (10h:30min - 10h:55min)

Break – (10h:55min - 11h:05min)
Day 2 - Chair: Claudinéia C.S. Franco

Friday 14th, Morning- (Session 2; 11h:05min - 13h:00min)

Conference Lect.011 – (11h:05min – 11h:35min)

The impaired endothelium-dependent relaxation in placental arteries of intrauterine growth restricted fetuses is regulated by oxidative stress and correlates with epigenetic changes in eNOS in umbilical artery endothelium.

Paola Casanello
Division of Obstetrics and Gynecology, Division of Pediatrics; School of Medicine, Pontificia Universidad Católica de Chile, Santiago - Chile.
paulacasanello@gmail.com

Short communication SC011 – (11h:35min – 11h:45min)

How can maternal body mass index help to get a better fetal growth in Chile?
Álvaro Passi
Department of Public Health, Facultad de Medicina, Pontificia Universidad Católica de Chile, 434, Santiago - Chile
apassi@puc.cl or mardones@med.puc.cl

Short communication SC012 – (11h:45min – 11h:55min)

Guinea pig intrauterine growth restricted foetuses show altered systemic and umbilical vascular function.
Bernardo J. Krause
Division of Obstetrics and Gynecology, School of Medicine, Pontificia Universidad Católica de Chile, Santiago - Chile
bjkrause@gmail.com

Short communication SC013 – (11h:55min – 12h:05min)

Newborn vascular tissue from maternal obesity shows insulin resistance: potential role of endoplasmic reticulum stress
Roberto Villalobos-Labra
Cellular and Molecular Physiology Laboratory (CMPL), Medical Research Centre (CIM) and Division of Obstetrics and Gynaecology, School of Medicine, Faculty of Medicine, Pontificia Universidad Católica de Chile, Santiago - Chile
roberto.e.villalobos@gmail.com

Conference Lect.012 - (12h:05min - 12h:35min)

Prenatal growth and the metabolic syndrome in Chilean school-age children
Francisco Mardones
Pontificia Universidad Católica de Chile, Santiago - Chile
mardones@med.puc.cl

Discussion - (12h:35min - 13h:00min)

Lunch - This lunch is included on the registration - (13h:00min)
Day 2:  
Friday 14th, Afternoon - (Visitation of the Natural touristic places, suggestions)

Space designated to visit the Natural, Cultural and Religious touristic points of Ponta Grossa/PR, as cultural attraction of this Historical city.

Suggestions for Natural walk:

**Buraco do Padre - (Priest’s hole)**

The name of this place is linked to the history of the Jesuit Fathers who meditated there. The Priest’s hole is a cave that features inside an imposing 30m waterfall, formed by the Rio Breaks Leg. It is a kind of underground amphitheater.

**Visitation time:** Wednesday to Sunday from 08h:00min - 18h:30min, free access

**Information** - (Águia Florestal: +55 (42) 3220-2677; alvaro@aguiaflorestal.com.br).

**Parque Estadual de Vila Velha - (State Park of Vila Velha)**

It is considered the main Natural attraction of Ponta Grossa. This area of conservation is composed of three main elements: Sandstones, Furnas and Golden pond that has this name because at sunset its waters are golden. This place houses a variety of fauna, nowadays scarce.

**Visitation time:** 08h:30min - 15h:30min.

**Information:** +55 (42) 3228-1138 or e-mail: agendamento.ecoparana@ecoparana.pr.gov.br  
Facebook: www.facebook.com/parquevilavelha

More suggestion may be found in: (http://www.dbc.uem.br/4SymMPS.htm)
Day 3 - Chair: Alex Rafacho
Saturday 15th, Morning - (Session 1; 09h:00min - 10h:45min)

Conference Lect.013 - (09h:00min - 09h:30min)

Infant feeding and growth patterns in children <4y in Mexico: Associations with adiposity and cardiometabolic risks at 4-5y of age.
Juan A. Rivera
Research Center in Nutrition and Health National Institutes of Public Health - Mexico
jrivera@insp.mx

Short communication SC014 - (09h:30min - 09h:40min)

Hypertension, possible early marker of endothelial dysfunction in Chilean children
Francisco Mardones
Department of Public Health; Department of Nutrition. Faculty of Medicine, Pontificia Universidad Católica de Chile, Santiago - Chile
mardones@med.puc.cl or josecorderou@gmail.com

Short communication SC015 - (09h:40min - 09h:50min)

Glycosylation patterns of transferrin receptor in villous placentas in severe preeclampsia and gestational anemia
Alejandra M. Gómez-Gutiérrez
Grupo Reproducción, Facultad de Medicina, Universidad de Antioquia, Medellin - Colombia
alejandram.gomezg@gmail.com

Conference Lect.014 - (09h:50min - 10h:20min)

New challenges beyond nutrition: c-section, violence, air pollution.
Alexandre A. Ferraro
Faculdade de Medicina da Universidade de São Paulo - USP, São Paulo, São Paulo - Brazil
ferraro@usp.br

Discussion - (10h:20min - 10h:45min)

Break - (10h:45 - 10h:55min)
Day 3 - Chair: Alexandre A. Ferraro
Saturday 15th, Morning - (Session 2; 10h:55min - 12h:40min)

Conference Lect.015 - (10h:55min – 11h:25min)

Breastfeeding duration modulates food intake, satiety responsiveness and BMI in IUGR children at 4 years of age
Marilyn Agranonik
Instituto Federal de Educação, Ciência e Tecnologia (IFRS), Porto Alegre/ RG – Brazil
marilyn.agranonik@gmail.com

Short communication SC016 - (11h:25min – 11h:35min)

Influence of ethanol and lycopene consumption during lactation in enzymes and peptides involved in liver detoxification of the offspring
Juliana A. Gonçalves
Post-Graduation Program in Nutrition, Department of Nutrition, Federal University of Santa Catarina, Florianópolis/ SC - Brazil
jugoncalves.nutri@gmail.com

Short communication SC017 - (11h:35min – 11h:45min)

Association between neonatal body iron status with maternal body iron status and the expression of transferrin-1 receptor and ferroportin in full term placenta.
Beatriz E. Parra-Sosa
Grupo de Investigación en Alimentación y Nutrición Humana, Escuela de Nutrición y Dietética, Universidad de Antioquia, Universidad de Antioquia. Medellín - Colombia.
beatriz.elena.parras4@gmail.com

Conference Lect.016 - (11h:45min – 12h:15min)

Islet cell response to high fat programming during the early life course
Marlon E. Cerf
The South African Medical Research Council (SAMRC), South Africa
marlon.cerf@mrc.ac.za

Discussion – (12h:15min – 12h:40min)

Lunch - This lunch is included on the registration - (12h:40min - 14h:10min)
Day 3 - Chair: Antonio M.A. Paes
Saturday 15th, Afternoon - (Session 1; 14h:10min – 15h:55min)

Conference Lect.017 – (14h:10min – 14h:40min)

Birth cohorts and the potential on advocacy, decision and policy: Latinoamerican perspective
Pablo Durán
Centro Latinoamericano de Perinatalogía & Salud de la Mujer y Reproductiva – (CLAP/SMR), Montevideo – Uruguay
Duranpa@clap.ops-oms.org

Short communication SC018 – (14h:40min – 14h:50min)

Soft-drinks and childhood obesity in Northwest Argentina
Ethel Alderete
Instituto de Ciencia y Tecnología Regional (ICTER)-UNJU CONICET-UNC-UNT
alderetew@gmail.com

Short communication SC019 – (14h:50min – 15h:00min)

Adult mortality in the Dominican Republic: is there an association with the early origins of disease?
Euclides P. Warden
Physician, República Dominicana. Student, Magister Epidemiología, Pontificia Universidad Católica de Chile, Santiago – Chile
euclidesportesw@gmail.com or eportes@uc.cl

Conference Lect.018 – (15h:00min – 15h:30min)

Towards a new Latin American Society of Nutrition: Strengthening Nutrition Research in Latin America
Juan A. Rivera
Research Center in Nutrition and Health National Institutes of Public Health – Mexico
jrivera@insp.mx

Discussion – (15h:30min – 15h:55min)

Coffee-break in Poster Session 2 - (PSII.022 - PSII.043) (15h:55min – 16h:55min)
Day 3 - Chair: Cláudio C. Zoppi
Saturday 15th, Afternoon - (Session 2; 17h:00min - 19h:50min)

Conference Lect.019 - (17h:00min - 17h:30min)

**Sexual dimorphism in epigenomic responses of stem cells to extreme fetal growth**

Fabien Delahaye  
Department of Obstetrics & Gynecology and Women’s Health, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Block Building, Room 631, Bronx, New York 10461 - USA  
delahaye.fabien84@gmail.com

Short communication SC020 - (17h:30min - 17h:40min)

**Breast-feeding duration in Chile. National information from the Ministry of Health.**

Xenia Benavides  
Department of Nutrition, Ministry of Health Chile, Mac-Iver 3400, Santiago - Chile  
xbenavides@minsal.cl

Short communication SC021 - (17h:40min - 17h:50min)

**Expression of Adiponectin receptors 1 and 2 in primary culture of human umbilical artery endothelial cells (HUAEc) from large fetuses of obese women.**

Estefanía C. Muñoz  
Division of Obstetrics and Gynecology & Division of Pediatrics, Faculty of Medicine, Pontificia Universidad Católica de Chile, Santiago - Chile.  
estefaniamunoz.bq@gmail.com

Conference Lect.020 - (17h:50min - 18h:20min)

**Developmental origins of health and disease: Effects on metabolism and ovarian function**

Deborah M. Sloboda  
McMaster University, Hamilton – Canada  
sloboda@mcmaster.ca

Conference Lect.021 - (18h:20min - 18h:50min)

**The fetal programming of food preferences**

Patrícia P. Silveira  
Departamento de Pediatria, Faculdade de Medicina, Universidade Federal do Rio Grande do Sul, Porto Alegre/ RS - Brazil  
raty@cpovo.net

Conference Lect.022 - (18h:50min - 19h:20min)

**Developmental programming influences on the life-course trajectory of aging**

Elena Zambrano  
Department of Reproductive Biology. INCMNSZ, México DF – Mexico  
zampon@unam.mx

Discussion - (19h:20min - 19h:50min)

**Gala Dinner - (Included on the registration)**
Day 4: Chair: Alexandre A. Ferraro
Sunday 16th, Morning - (Session 1; 09h:00min - 10h:30min)

Final discussion and Closing remarks:

Introducing the International DOHaD Society
Deborah M Sloboda
McMaster University, Hamilton – Canada
sloboda@mcmaster.ca

Looking forward: Talking about the importance of the Ibero-American chapter of DOHaD for each country - (5min for each one)

Speak 001: Chile
Francisco Mardones
Pontificia Universidad Católica de Chile, Santiago, Chile
(mardones@med.puc.cl)

Speak 002: Peru
Gloria Larrabure-Torrealva
Physician, Endocrinologist, Lima, Peru
(gloria.larrabure@gmail.com)

Speak 003: Mexico
Elena Zambrano
Department of Reproductive Biology, INCMNSZ, México DF, Mexico
(zamgon@unam.mx)

Speak 004: Venezuela
Mariannela Herrera-Cuenca
Department “Health & Development”, Center for Development Studies (CENDES) Central University of Venezuela, Venezuela
(marianella.herrera@ucv.ve)

Speak 005: Uruguay
Leticia Klaps
Department of Cognitive Science and Health, Universidad Católica del Uruguay, Dámaso Antonio Larrañaga, Uruguay
(leticiaklaps@hotmail.com)

Speak 006: Colombia
Beatriz Elena Parra
Grupo de Investigación en Alimentación y Nutrición Humana, Escuela de Nutrición y Dietética, Universidad de Antioquia. Medellín, Colombia
(beatriz.elena.parrad@gmail.com)

Speak 007: Argentina
Graciela R. Barsimeto
Association of Nutrition Sciences Graduates of the Province of Jujuy, Provincia de Jujuy, Argentina
(grabarsimanto@yahoo.com.ar)

Speak 008: Brazil
Paulo C.F. Mathias
Universidade Estadual de Maringá, Maringá, Paraná, Brazil
(pc/mathias@gmail.com)

Points:
- Talking about the projection of the Ibero-American chapter of the DOHaD Society. The future of the chapter in the Ibero-American context.
- Representatives of each Ibero-American country are expected to express their views in 5 minutes.
- Suggestions for the country and the city for the next 2nd Meeting of the Ibero-American Chapter of DOHaD.
Day 1:
Thursday 13th, **Afternoon** - (Poster Session 1; 16h:15min - 17h:15min)

**PSI.001.**
Aveloz reduces ITPR1 expression in larynx carcinoma cultures
**Gabriela B.F. Salla**
Department of Biology, Institute of Biosciences, Letters and Science - IBILCE/UNESP, São José do Rio Preto/SP - Brazil; Department of Biochemistry, University of Maringá, Maringá/PR - Brazil
gabi.bfranco@gmail.com

**PSI.002.**
Evaluation of the cytotoxic and cytostatic effects of glibenclamide in human lymphocytes in vitro
**Juliane R. Sant’Anna**
Laboratório de Genética de Microorganismos e Mutagênese, Universidade Estadual de Maringá, Maringá/PR - Brazil
juliane_santanna@hotmail.com

**PSI.003.**
Liver glucose metabolism in post-absorptive rats is altered by food restriction since birth
**Maria M. Díaz Pedrosa**
State University of Maringá, Maringá/PR - Brazil
montserratfurlan@gmail.com

**PSI.004.**
Availability of intracellular camp regulates activation of liver glycogen breakdown in high-fat diet fed mice.
**Vilma A. Ferreira de Godoi**
Department of Physiological Sciences, State University of Maringa, Maringá/ PR - Brazil
vafgazola@uem.br

**PSI.005.**
Genetic expression of Adipoq and Tnf adipokines in monosodium glutamate-treated obese rats submitted to exercise
**Viviane Nogaroto**
Programa de Pós-Graduação em Biologia Evolutiva, Universidade Estadual de Ponta Grossa, Ponta Grossa/ PR - Brazil
vivianenogaroto@hotmail.com

**PSI.006.**
Associations of prenatal growth with maternal anthropometry in Uruguay.
**Leticia Klaps**
Department of Cognitive Science and Health, Universidad Católica del Uruguay, Dámaso Antonio Larrañaga – Uruguay.
leticiaklaps@hotmail.com

**PSI.007.**
Musical intervention in mother-infant pairs moderates the effects of IUGR on palatable food preferences during childhood in girls.
**Cláudia L. Braga**
Programa de Pós-Graduação em Saúde da Criança e do Adolescente, Faculdade de Medicina - (UFRGS), Porto Alegre/RS - Brazil.
claudia@casadeteletrica.art.br
PSI.008.
Perinatal mortality, weight-height evaluation and neuropsycho-motor development of 6-month old children belonging to a birth cohort in the western region of São Paulo, Brazil
Luciana Sabbatini
Instituto da Criança da Faculdade de Medicina da Universidade de São Paulo (ICr/ FMUSP), São Paulo/ SP - Brazil.
luciana.sabbatini.2402@gmail.com

PSI.009.
Effects of copaiba oil on oxidative status in the plasma and livers of rats with adjuvant-induced arthritis
Cristiane V.C. Ghizoni
Department of Biochemistry, University of Maringá, Maringá/ PR - Brazil
crisvizioli@gmail.com

PSI.010.
The effects of fusarium oxysporum metabolites on myeloperoxidase activity
Marcelo H. Correia
Universidade Estadual de Maringá, Maringá/ PR – Brazil
marcelohcorreia@gmail.com

PSI.011.
Low protein diet during puberty programs to hypertension
Kesia Palma-Rígo
Laboratory of Secretion Cell Biology, Department of Biotechnology, Genetics and Cell Biology, State University of Maringá, Maringá/ PR – Brazil
kesiapalmarigo@hotmail.fr

PSI.012.
Low-protein diet during suckling phase disturbs lipid-profile as that high-fat diet does in adult rat offspring
Isabela P. Martins
Departamento de Biotecnologia, Genética e Biologia Celular, Laboratório de Biologia Celular da Secreção, Universidade Estadual de Maringá, Maringá/ PR – Brazil
isa.peixotomartins@gmail.com

PSI.013.
Long-term effects of Buscopan treatment on insulin secretion in postnatal overfeeding rats
Ananda Malta
Laboratory of Secretion Cell Biology, Department of Biotechnology, Genetics and Cell Biology, State University of Maringá, Maringá/ PR – Brazil
nandamalt@hotmail.com

PSI.014.
Chronic isoflavone treatment effect on metabolism of MSG-obese rats
Rosana Torrezan
Laboratory of Physiology, Department of Physiological Sciences, State University of Maringá, Maringá/ PR - Brazil
rtorrezan@uem.br

PSI.015.
Myeloperoxidase, inflammation and cardiac risk in tobacco growers
Cristiane R. Barbosa
Universidade Estadual de Ponta Grossa (UEPG), Ponta Grossa/ PR - Brazil.
cristiane_rickli@hotmail.com
PSI.016.  
**Cross-fostering in suckling male rats can attenuate metabolic dysfunctions in adulthood**  
Rosiane A. Miranda  
Laboratory of Secretion Cell Biology, Department of Biotechnology, Genetics and Cell Biology, State University of Maringá, Maringá/PR - Brazil  
mapmiranda@yahoo.com.br

PSI.017.  
**Low-protein diet at later-gestation or early-lactation disturbs offspring’s metabolism as different phenotypes**  
Júlio C. de Oliveira  
Departamento de Biotecnologia, Genética e Biologia Celular, Laboratório de Biologia Celular da Secreção, Universidade Estadual de Maringá, Maringá/PR - Brazil  
biojborges@gmail.com

PSI.018.  
**Permeation on skin from free insulin and complexed with cyclodextrins in the process of excisional wound-healing in rats**  
Jean C.F. Besson  
Laboratório de Histologia Animal, Departamento de Ciências Morfológicas, Universidade Estadual de Maringá, Maringá/PR - Brazil  
jeanbesson2012@gmail.com

PSI.019.  
**Neonatal metformin treatment protects against rat obesity onset**  
Carina Previate  
Laboratory of Secretion Cell Biology, Department of Biotechnology, Genetics and Cell Biology, State University of Maringá, Maringá/PR - Brazil  
clau_conationi@yahoo.com.br

PSI.020.  
**Chronic suphonylurea treatment attenuates the Walker 256 tumor growth**  
Claudínéia C.S. Franco  
Laboratory of Secretion Cell Biology, Department of Biotechnology, Genetics and Cell Biology, State University of Maringá, Maringá/PR - Brazil  
clau_conationi@yahoo.com.br

PSI.021.  
**Inulin supplementation effects on the intestinal motility and myenteric innervation of mice with high-fat diet-induced obesity**  
Evandro J. Beraldi  
Department of Morphological Sciences, State University of Maringá, Maringá/PR - Brazil.  
evandroberaldi@gmail.com
Day 3:
Saturday 15th, Afternoon – (Poster Session 2; 15h:55min - 16h:55min)

PSII.022.  
Height, body mass index and inappropriate gestational weight gain as risk adverse intrauterine growth in Chile and Uruguay  
Leticia Klaps  
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PSII.023.  
Most prevalent systemic diseases of patients examined in the Diagnostic Unit of a Dentistry School: perspectives for an early origins study  
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PSII.024.  
Low frequency and moderate exercise training reduces adiposity in early overfeeding rats and improve interscapular brown adipose tissue thermogenesis  
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PSII.025.  
Effects of aerobic training on reduced response to angiotensin II in intrauterine growth restricted rats: role of renin angiotensin system and oxidative stress  
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PSII.026.  
Low intensity exercise alters offspring adiposity at 21-day-old from mothers fed cafeteria diet.  
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PSII.027.  
Short term moderate exercise provides long-lasting protective effects against metabolic dysfunction induced by high fat diet in rats  
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PSII.028.  
Maternal low-intensity physical exercise blocks small litter-induced obesity in offspring  
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PSII.029.
Exercise training performed by parents modulates offspring adiposity
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PSII.030.
Cross-gavage of fecal microbiota during lactation leads to different outcomes in adulthood
depending on the phenotype of the mother
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PSII.031.
Female Wistar rats develop obesity after gavage of fecal microbiota from small litter
mothers during lactation
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PSII.032.
Myeloperoxidase, inflammation and cardiac risk in pregnant women
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PSII.033.
Analyses of macrosomic newborns
Gloria Larabure-Torrealva
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PSII.034.
Oxidative stress in the liver subcellular fractions from rats with Freund’s adjuvant arthritis
Cristiane V.C. Ghizoni
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PSII.035.
Oxidative state and oxidative metabolism in the brain of rats with adjuvant-induced arthritis
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PSII.036.
Malnutrition in adulthood does not cause metabolic programming
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PSII.037. Hypercorticosteronemia effect on autonomic nervous system imbalance in obese rats
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PSII.038. Do parental harmful life-style factors and their socio-economic status affect children's growth in Venezuela?
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PSII.039. Involvement of leptin in defective inflammatory response in culture of lung endothelial cells stimulated by LPS from intrauterine undernourished rats.
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PSII.040. Evaluation of drug therapy and quality of life in type 1 diabetic patients with conventional insulin treatment
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PSII.041. How can maternal height help to get a better fetal growth in Chile?
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PSII.042. Chronic fructose administration reduced peripheral insulin sensitivity and intervention with fish oil supplementation prevents this effect in rats
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PSII.043. Metabolic parameters in rats with early menopause and glucocorticoid treatment
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