



Program Schedule					
	Mon - Sept 09 (seg)	Tue - Sept 10	Wed - Sept 11	Thu - Sept 12	Fri - Sept 13
8:00-9:00 h			Courses I (1st class)	Courses I (2nd class)	Courses I (3rd class)
9:00-9:30 h			Coffee break	Coffee break	Coffee break
9:30-11:30 h	Australia-Brasil-Chile(ABC) Regenerative Medicine & Developmental Biology Symposium	Sessions/ABC Symposium	Sessions	Sessions	Sessions / Awards
11:30-12:30 h		Plenary Lecture	Plenary Lecture	Plenary Lecture	Closing Ceremony and Awardees announcement
12:30-14:00 h	Almoço				
14:00-16:00 h	ABC Symposium / Courses/ "Escola de Ciências"	Sessions/ABC Symposium	Sessions	Sessions	
16:00-18:00 h		Poster Session I	Poster Session II	Poster Session III	
18:00-19:00 h	Opening Ceremony	Lectures	Lectures	Lectures	
19:15-20:00 h		Courses II (1st class)	Courses II (2nd class)	Courses II (3rd class)	
20:00-21:00 h			General FeSBE Assembly		



PROGRAM SCHEDULE

Monday - Sept.09.2019

9:00 - 17:30 - 3rd Australia-Brazil-Chile Regenerative Medicine and Developmental Biology Symposium
13:00 - 17:30 - "Escola de Ciências na FeSBE"
18:00 - 18:30 - Opening Ceremony
18:30 - 19:30 - Opening Lecture

Tuesday - Sept.10.2019

9:00 - 11:30 - 3rd Australia-Brazil-Chile Regenerative Medicine and Developmental Biology Symposium
9:30 - 11:30 - Sessions
11:30 - 12:30 - Plenary Lecture
12:30 - 14:00 - Lunch
14:00 - 16:00 - Sessions
14:30 - 16:00 - 3rd Australia-Brazil-Chile Regenerative Medicine and Developmental Biology Symposium
16:00 - 18:00 - Poster Session I
18:00 - 19:00 - Lectures
19:10 - 20:00 - Courses II (1st class)

Wednesday - Sept.11.2019

8:00 - 9:00 - Courses I (1st class)/ "FeSBE Jovem - 25 anos"
9:00 - 9:30 - Coffee Break
9:30 - 11:30 - Sessions / "FeSBE Jovem - 25 anos"
11:30 - 12:30 - Plenary Lecture
12:30 - 14:00 - Lunch
14:00 - 16:00 - Sessions / "FeSBE Jovem - 25 anos"
16:00 - 18:00 - Poster Session II
18:00 - 19:00 - Lectures
19:10 - 20:00 - Courses II (2nd class)
20:00 - 21:00 - FeSBE General Assembly

Thursday - Sept.12.2019

8:00 - 9:00 - Courses I (2nd class) / "FeSBE Jovem - 25 anos"
9:00 - 9:30 - Coffee Break
9:30 - 11:30 - Sessions / "FeSBE Jovem - 25 anos"
11:30 - 12:30 - Plenary Lecture
12:30 - 14:00 - Lunch / Technical Lecture
14:00 - 16:00 - Sessions / "FeSBE Jovem - 25 anos"
16:00 - 18:00 - Poster Session III
18:00 - 19:00 - Lectures
19:10 - 20:00 - Courses II (3rd class)

Friday - Sept.13.2019

8:00 - 9:00 - Courses I (3rd class) / "FeSBE Jovem - 25 anos"
9:00 - 9:30 - Coffee Break
9:30 - 11:30 - Sessions / Affiliated Societies Awards / "FeSBE Jovem - 25 anos"
11:30 - 13:30 - Closing ceremony and Awardees announcement



09/09 - Monday

9:00-17:00 h

3rd Australia-Brazil-Chile Regenerative Medicine and Developmental Biology Symposium

13:00-17:30 h

Escola de Ciências

14:00-17:00 h - Cursos

Marketing para cientistas: da bancada a concursos

Coordenador: **Helder Nakaya** (USP-SP)

Aula 1 - Mitos e fatos na carreira científica

Helder Nakaya (USP-SP)

Aula 2 - Escrita científica e fazendo figuras impactantes

Helder Nakaya (USP-SP)

Aula 3 - Desenvolvendo sua carreira científica

Helder Nakaya (USP-SP)

Aspectos fisiológicos e comportamentais nas pesquisas com fêmeas

Coordenadora: **Fabiana C. Vilela Giusti** (UNIFAL-MG)

Aula 1 - Aprendendo a trabalhar com fêmeas

Bruna Kalil (UNIFAL-MG)

Aula 2 - Lactação e comportamento materno

Fabiana C. Vilela Giusti (UNIFAL-MG)

Aula 3 - O funcionamento do sistema circadiano em fêmeas

Maristela de Oliveira Poletini (UFMG)

18:00-18:30 h

FeSBE Opening Ceremony

18:30-19:30 h - Opening Lecture

“Understanding skeletal muscle regeneration using zebrafish models”

Peter Currie (Australian Regenerative Medicine Institute, Australia)



10/09 - Tuesday

9:00-11:30 h

3rd Australia-Brazil-Chile Regenerative Medicine and Developmental Biology Symposium

9:30-11:30 h - Sessions

Pharmacological changes in cell senescence and consequences for the aging process and neurodegenerative diseases

Chair: **Tânia Viel** (USP)

Mass spectrometric technology to understand molecular mechanisms that underlie aging

Birgit Schilling (Buck Institute for Research on Aging)

Cellular senescence is induced by the environmental neurotoxin paraquat and contributes to neuropathology linked to Parkinson's disease

Julie Kay Andersen (Buck Institute for Research on Aging)

Bradykinin treatment increased the longevity of hippocampal organotypic cultures from old mice

Hudson de Sousa Buck (FCMSCSP)

Heart failure-induced cardiorenal diseases: potential targets.

Chair: **Adriana C. C. Girardi** (InCor- HC-FMUSP)

Cardioprotection conferred by antidiabetic drugs in heart failure: a renal proximal tubule perspective.

Adriana C. C. Girardi (InCor-HC-FMUSP)

The potential benefits of exercise training on vascular disorders induced by heart failure

Luciana V. Rossoni (ICB-USP)

Oral presentation 1: TBD

Oral presentation 2: TBD

Balance control and visual function: basic and applied approaches

Chair: **Givago da Silva Souza** (UFPA)

The role of the visual information in balance control

Ana Francisca Rozin Kleiner (UFSCar)

Balance control in low-vision patients

Givago da Silva Souza (UFPA)

Oral presentation 1: TBD

Oral presentation 2: TBD

Advances in endocrine pancreas physiology and metabolic programming

Chair: **Everardo Magalhães Carneiro** (UNICAMP)

Advances and future perspectives for the study of the human pancreas

Alejandro Caicedo (University of Miami)

Metabolic programming and obesity

Patrícia Cristina Lisboa (UERJ)

Oral presentation 1: TBD

Oral presentation 2: TBD

Mechanotransduction in biological systems

Chair: **Ayumi Aurea Miyakawa** (InCor-USP)

Mechanotransduction at the cell-matrix interface

Christoph Ballestrem (The University of Manchester)

Crp3 and vascular remodeling by mechanical stress

Ayumi Aurea Miyakawa (InCor-USP)

Oral presentation 1: TBD

Oral presentation 2: TBD

11:30-12:30 h - Plenary Lecture

What lies ahead of the frontier in cardiac development and evolution?

Chair: **Hernandes F. Carvalho** (UNICAMP)

Speaker: **José Xavier-Neto** (UFC)

12:30-14:00 h - Lunch

14:00-16:00 h - Sessions

Neuroscience of learning and Brazilian education

Chair: **Camilo Lellis-Santos** (UNIFESP)

Universal design for learning: accommodating individual learning differences

Claudia Berlim de Mello (UNIFESP)

The day that elementary school students have built a pH meter themselves

Eduardo Galembeck (UNICAMP)

Oral presentation 1: TBD

Oral presentation 2: TBD



10/09 - Tuesday

Therapies with stem cells and extracellular vesicles in chronic degenerative diseases

Chair: **Pedro Leme** (UFRJ)/ **Patricia Rocco** (UFRJ)

Therapies with stem cells and extracellular vesicles in respiratory diseases

Patricia Rocco (UFRJ)

Extracellular vesicles therapy in kidney diseases

Danilo Cândido de Almeida (UNIFESP/USP)

Stem cells therapy in pulmonary arterial hypertension – a new perspective

Pedro Leme (UFRJ)

Challenges for cardiac repair and regeneration after myocardial infarction

José Eduardo Krieger (Incor-HC-USP)

Several aspects of zebrafish as a research model

Chair: **Maria Izabel Chiamolera** (UNIFESP)

Unraveling microRNAs function in zebrafish: strategies and advances

Danillo Pinhal (UNESP-Botucatu)

Hipopituitarismo congênito e suas múltiplas faces nas diferentes espécies Homo Sapiens, Mus musculus e Danio Rerio.

Luciani Renata Silveira de Carvalho (HC-FMUSP)

Sanitary control in zebrafish and its implication in experimental results

Bianca Ventura (FMUSP-SP)

Transgenics and Biosafety

Chair: **Anibal E. Vercesi** (UNICAMP)

Impacts of adopting OMGs

Edivaldo Velini (UNESP)

OMGs: a mobile target

Carlos Orsi (Instituto Questão de Ciência)

The risk of miscommunicating risks

Natalia Pasternak (Instituto Questão de Ciência)

History and importance of the Brazilian biosafety law

Walter Colli (IQ-USP)

New challenges to blindness treatment

Chair: **Hilda Petrs-Silva** (UFRJ)

Modulation of Endocannabinoid system induce neuroprotection in a murine model of retinitis pigmentosa

Lucianne Fragel Madeira (UFF)

Micro-RNAs and the regulation of stem cells and retinal degeneration

Carolina Beltrame Del Debbio (USP)

Non-viral vectors for retinal degeneration gene therapy

Armando da Silva Cunha Junior (UFMG)

Gene therapy for retinal ganglion cells - is it feasible?

Hilda Petrs-Silva (UFRJ)

14:30-16:00 h

3rd Australia-Brazil-Chile Regenerative Medicine and Developmental Biology Symposium

16:00-18:00 h - Poster Session I and coffee break

18:00-19:00 h - Lectures

A Chimera Named Pollution

Chair: **Patricia Rocco** (UFRJ)

Speaker: **Walter Araujo Zin** (UFRJ)

The wide spectrum of hypothalamic abnormalities in obesity

Chair: **Everardo M. Carneiro** (UNICAMP)

Speaker: **Licio A. Velloso** (UNICAMP)

Hypertensive neuropathy: a new clinical disease?

Chair: **Ana Carolina T. Takakura** (ICB-USP)

Speaker: **Valéria Paula S. Fazan** (FMRP-USP)



10/09 - Tuesday

19:10-20:00 h - Curso II (1ª aula) / Courses II (1st class)
(will be held in Portuguese or English)

Desreguladores endócrinos

Coordenadora: **Maria Izabel Chiamolera** (UNIFESP)
Aula 1 - Introdução aos Desreguladores Endócrinos
Andrea Claudia Freitas Ferreira (UFRJ)

Ritmos Biológicos: mais próximo da sua pesquisa que você imagina

Coordenadora: **Fernanda Gaspar do Amaral** (UNIFESP)
Aula 1 - Análises Rítmicas na Pesquisa Experimental
Fernanda Gaspar do Amaral (UNIFESP)

Avaliação cardiovascular: adequando o método à hipótese

Coordenadora: **Luciana V. Rossoni** (ICB- USP)
Aula 1 - Avaliando a função cardíaca
Dalton Valentim Vassallo (UFES/ EMESCAM)

How to make the most of optical microscopy

Chair: **Manoel Luis Costa** (UFRJ)
Class 1 - Identifying the major variables in optical microscopy
Manoel Luis Costa (UFRJ)

Modelagem animal: o que preciso fazer para ter resultados precisos

Coordenador: **Marcel Frajblat** (UFRJ)
Aula 1 - Ciência e modelagem animal
Marcel Frajblat (UFRJ)

Molecular pathways in cell death subroutines

Chair: **Giselle Zenker Justo** (UNIFESP)
Class 1 - Overview of cell death: Regulated and accidental cell death; classification of cell death subroutines
Giselle Zenker Justo (UNIFESP)

Proteomics for everyone

Chair: **Giuseppe Palmisano** (ICB-USP)
Class 1 - Proteomics tools and applications to biology
Giuseppe Palmisano (ICB-USP) / **Jose Cesar Rosa** (USP-RP)



11/09-Wednesday

8:00-9:00 h - Curso I (1ª aula) / Courses I (1st class)
(will be held in Portuguese or English)

Redação Científica: Artigos, Projetos e Ética

Coordenador: **Walter Araujo Zin** (UFRJ)
Aula 1 - Redação de Artigo Científico
Walter Araujo Zin (UFRJ)

Revisiting the Physiology Teaching

Chair: **Maria Tereza Nunes** (ICB- USP)
Class 1 - "Who am I?" a game-based teaching tool to promote endocrine physiology learning
Maria Tereza Nunes (ICB- USP) e **João Kleber Neves Ramos** (ICB- USP)

Imagens de Bases Moleculares

Coordenador: **Valbert Nascimento Cardoso** (UFMG)
Aula 1 - Imagens cintilográficas (SPECT e PET)
Simone Odilia Antunes Fernandes (UFMG)

O tecido muscular esquelético: da estrutura a aspectos adaptativos

Coordenador: **Anselmo Moriscot** (ICB- USP)
Aula 1 - Aspectos estruturais do músculo estriado esquelético e correlações com função
Anselmo Moriscot (ICB- USP)

Canais para íons em membranas celulares

Coordenador: **Antônio Carlos Cassola** (ICB- USP)
Aula 1 - Técnicas para a observação experimental de canais unitários: "Patch Clamp" e Análise de Ruído
Antônio Carlos Cassola (ICB- USP)

Advanced tissue-based techniques in drug development, with emphasis on toxicologic pathology and safety pharmacology applications

Chair: **Gilberto De Nucci** (UNICAMP/USP)
Class 1 - Formalin-fixed paraffin-embedded (FFPE) tissue blocks/sections: review of molecular pathology techniques (relevance and limitations)
Frédéric Gervais (Citoxlab, France)

Bioimpressão 3D na Medicina Regenerativa

Coordenadora: **Marimelia Porcionatto** (UNIFESP)
Aula 1 - Imprimindo tecidos e órgãos: biotintas e células
Marimelia Porcionatto (UNIFESP)

9:30-11:30 h - Sessions with abstract oral presentations

Advances in muscle physiology

Chair: **Flavia Bloise** (UFRJ)
Skeletal muscle physiology during the nonthyroidal illness syndrome

Flavia Bloise (UFRJ)

Muscle mitochondrial function in a model of dystrophic mice

Claudia Mermelstein (UFRJ)

Oral presentation 1: TBD

Oral presentation 2: TBD

Mechanisms conditioning the beneficial effects of exercise in cardiovascular diseases

Chair: **Lisete Compagno Michelini** (ICB-USP)

Autonomic dysfunction in heart and cerebral ischemic diseases: Effects of exercise

Bruno Rodrigues (FEF-UNICAMP)

Molecular mechanisms in the genesis of hypertension: Exercise benefits

Gustavo Santos Masson (ICB-USP)

Oral presentation 1: TBD

Oral presentation 2: TBD

Use of noise to mask color and luminance contrast

Chair: **Eliza M. C. Brito Lacerda** (CEUMA University)
Detection of luminance noise: influence of the stimulus parameters

Eliza M. C. Brito Lacerda (CEUMA University)

Color and luminance discrimination masked by luminance noise

Terezinha M. Gonçalves de Loureiro (UFPA)

Oral presentation 1: TBD

Oral presentation 2: TBD

New insights into thyroid hormones and TSH actions

Chair: **Rodrigo Soares Fortunato** (UFRJ)
Is there a role of TSH on thyroid and breast cancer?

Rodrigo Soares Fortunato (UFRJ)

Autocrine actions of thyroid hormone

Rafael Benjamin Araújo Dias (UNINOVE)

Oral presentation 1: TBD

Oral presentation 2: TBD



11/09-Wednesday

11:30-12:30 h - Plenary lecture

The cholesterol war: fake news vs. scientific based evidences

Chair: **Helena Coutinho F. Oliveira** (UNICAMP)

Speaker: **Eder C. R. Quintão** (FMUSP)

12:30-14:00 h - Lunch

14:00-16:00 h - Sessions

Microenvironment and cell behavior

Chair: **Patricia Gama** (USP)

Mechanotransduction in tumor cells

Marcelo Lazzaron Lamers (UFRGS)

Hyperglycemic environment and cell behavior

Marinilce Fagundes dos Santos (ICB-USP)

Scaffolds and brain injury

Marimelia A Porcionatto (UNIFESP)

New aspects of endocrine disruptors

Chair: **Maria Izabel Chiamolera** (UNIFESP)

Experience with the European Commission for Endocrine Disruptors

Maria Tereza Nunes (ICB-USP)

Zebrafish as an alternative method for toxicity assessment of emerging environmental contaminants

Lilian Cristina Pereira (UNESP-Botucatu)

Endocrine disruptors and intrauterine programming of thyroid dysfunctions

Caroline Serrano do Nascimento (Hospital Albert Einstein)
Endocrine disruptors and the brain

Gisele Giannocco (UNIFESP-Diadema)

Purinergic Signaling in Development and Disease

Chair: **Henning Ulrich** (IQ-USP)

Ecto-5-nucleotidase/CD73 contributes to the radiosensitivity of bladder cancer cells

Ana Maria de Oliveira Battastini (UFRGS)

Purinergic signaling in sepsis-induced liver injury

Robson Coutinho-Silva (UFRJ)

Purinergic Signaling in the Developing Retina

Ana Lucia Marques Ventura (UFF)

Therapeutic effects of purinergic receptors in neurodegenerative diseases

Henning Ulrich (IQ-USP)

Inflammation-induced alterations of the neurovascular unit

Chair: **Daniel Adesse** (Fiocruz)

Microvessel alterations in Toxoplasma gondii infected-mice

Daniel Adesse (Fiocruz)

Alcohol exposure during gestation impairs endothelial-astrocyte interactions in the embryonic cerebral cortex

Joice Stipursky (UFRJ)

Zika virus hampers blood vessels development in a murine model of congenital infection

Patrícia Pestana Garcez (UFRJ)

The role of TLR4 in the microvascular cerebral dysfunction in a model of metabolic syndrome

Vanessa Estado (Fiocruz)

Why scientists should share their discoveries through different media not only by publishing papers?

Chair: **Camilo de Lellis Santos** (UNIFESP)

Science and Citizenship

Natália Pasternak (ICB-USP)

Podcasts, a simple way to connect scientists and public

Leandro A. Lobo (UFRJ)

Who's afraid of media exaggeration?

Carlos Orsi (Instituto Questão de Ciência)

Science in the media, science in the classrooms: the fight against misconceptions

Camilo de Lellis Santos (UNIFESP)

16:00-18:00 h – Poster Sessions II and coffee break

18:00-19:00 h - Lectures

Discussing the Relationship (DR): The bi-directional communication between tumor and stroma

Chair: **Patricia Gama** (ICB-USP)

Speaker: **Christina Barja-Fidalgo** (UERJ)

Melatonin as a Hormone: New Physiological and Clinical Insights

Chair: **Fernanda Gaspar do Amaral** (UNIFESP)

Speaker: **José Cipolla Neto** (ICB-USP)

Non-coding RNAs: pathophysiological role and clinical application in the cardiovascular system

Chair: **Alice Cristina Rodrigues** (ICB-USP)

Speaker: **Da-Zhi Wang** (Harvard Medical School)



11/09-Wednesday

19:10-20:00h - Cursos II (2ª aula) / Courses II (2nd class)

Desreguladores endócrinos

Coordenadora: **Maria Izabel Chiamolera** (UNIFESP)

Aula 2 - Contaminantes Organoestênicos e o Sistema Endócrino e Reprodutor

Jones B. Graceli (UFES)

Ritmos Biológicos: mais próximo da sua pesquisa que você imagina

Coordenadora: **Fernanda Gaspar do Amaral** (UNIFESP)

Aula 2 - Análises Rítmicas na Pesquisa Clínica

Maria Paz Hidalgo (UFRGS)

Avaliação cardiovascular: adequando o método à hipótese

Coordenadora: **Luciana V. Rossoni** (ICB- USP)

Aula 2 - Avaliando a função vascular

Luciana Venturini Rossoni (ICB- USP)

How to make the most of optical microscopy

Chair: **Manoel Luis Costa** (UFRJ)

Class 2 - Choosing the best procedure for each inquiry in optical microscopy

João Ricardo Lacerda de Menezes (UFRJ)

Modelagem animal: o que preciso fazer para ter resultados precisos

Coordenador: **Marcel Frajblat** (UFRJ)

Aula 2 - Fatores que afetam os resultados de uma pesquisa

Marcel Frajblat (UFRJ)

Molecular pathways in cell death subroutines

Chair: **Giselle Zenker Justo** (UNIFESP)

Class 2 - Molecular pathways of major regulated cell death modalities.

Giselle Zenker Justo (UNIFESP)

Proteomics for everyone

Chair: **Giuseppe Palmisano** (ICB-USP)

Class 2 - Mass spectrometry and bioinformatics for protein identification and quantification

Giuseppe Palmisano (ICB-USP) / **Jose Cesar Rosa** (USP-RP)

20:00-21:00 h

FeSBE General Assembly



12/09 - Thursday

8:00-9:00 h - Curso I (2ª aula) / Courses I (2nd class)

Redação Científica: Artigos, Projetos e Ética

Coordenador: **Walter Araujo Zin** (UFRJ)

Aula 2 - Ética na Redação e Publicação de um Artigo
Walter Araujo Zin (UFRJ)

Revisiting the Physiology Teaching

Chair: **Maria Tereza Nunes** (ICB- USP)

Class 2 - Dramatization in Physiology teaching: date to do different

Lucila Ludmila Paula Gutierrez (UFCSPA)

Imagens de Bases Moleculares

Coordenador: **Valbert Nascimento Cardoso** (UFMG)

Aula 2 - Nanoformulações para diagnóstico por imagens
Valbert Nascimento Cardoso (UFMG)

O tecido muscular esquelético: da estrutura a aspectos adaptativos

Coordenador: **Anselmo Moriscot** (ICB- USP)

Aula 2 - Mecanismos celulares e moleculares controladores da massa muscular esquelética

Dawit A. Pinheiro Goncalves (EEFFTO-UFMG)

Canais para íons em membranas celulares

Coordenador: **Antônio Carlos Cassola** (ICB- USP)

Aula 2 - Análise estocástica de canais unitários
Antônio Carlos Cassola (ICB- USP)

Advanced tissue-based techniques in drug development, with emphasis on toxicologic pathology and safety pharmacology applications

Chair: **Gilberto De Nucci** (UNICAMP/USP)

Class 2 - Advanced in situ hybridization techniques: RNAscope

Frédéric Gervais (Citoxlab, France)

Bioimpressão 3D na Medicina Regenerativa

Coordenadora: **Marimelia Porcionatto** (UNIFESP)

Aula 2 - Bioimpressão 3D como ferramenta para recapitular o desenvolvimento e doenças

Marimelia Porcionatto (UNIFESP)

9:30-11:30 h - Sessions

Noncoding RNAs in health and disease

Chair: **Alice Cristina Rodrigues** (ICB-USP)

Modulation of Muscle Development and Disease by Non-coding RNAs

Da-Zhi Wang (Harvard Medical School)

Integration of Transcriptomics and MicroRNA Analyses in Cancer Cachexia

Robson Francisco Carvalho (UNESP)

MicroRNAs mediate beneficial effects of exercise on the cardiovascular system

Edilamar Menezes de Oliveira (EEFE-USP)

Exosomal microRNAs as mediators of intertissue communication in obesity

Alice Cristina Rodrigues (ICB-USP)

Pathogenesis of Chagas Disease

Chair: **João Santana da Silva** (FMRP-USP)

The Yin-and-Yang of the immune response: keeping the balance to decrease the burden of Chagas heart disease

Walderez O. Dutra (UFMG)

Consequences of controlling inflammation during Trypanosoma cruzi infection

Fabiana Simão Machado (UFMG)

The involvement of lipid kinases in the pathogenesis of Trypanosoma cruzi infection

Maria Claudia Silva (FMRP-USP)

Omics analysis in Chagas disease cardiomyopathy: a mitochondrial disease?

Edecio Cunha Neto (USP)

Content versus process in modern cell biology teaching

Chair: **Manoel Luis Costa** (UFRJ)

On the basic concepts in cell biology

Manoel Luis Costa (UFRJ)

On the impact of technology in biology teaching methodologies

Miriam Struchiner (UFRJ)

The impact of recent process in cell biology teaching

Mauricio Roberto Pinto da Luz (Fiocruz)

Survey of major topics in cell biology

Claudia Mermelstein (UFRJ)



12/09 - Thursday

Influence of microenvironment on tumor development

Chair: **João Alfredo de Moraes** (UFRJ)

Clues from the tumor-derived extracellular matrix to neighbor cells in the microenvironment

Christina Barja-Fidalgo (UERJ)

Neutrophil extracellular traps (NETs) as mediators of tumor progression

Robson de Queiroz Monteiro (UFRJ)

Adipose tissue derived extracellular vesicles modify tumoral cells behavior

Mariana Renovato Martins (UFF)

Effect of melanoma extracellular vesicles on neutrophil polarization

João Alfredo de Moraes (UFRJ)

Immunomodulators and intestinal homeostasis

Chair: **Valbert Nascimento Cardoso** (UFMG)

Probiotic Bacteriophages- A novel strategy to control infection and inflammation.

Belchiolina Beatriz Fonseca (UFU)

Use of lactic acid bacteria genetically modified as immunomodulators to promote intestinal homeostasis

Vasco Ariston Carvalho de Azevedo (UFMG)

Lipids as immunomodulatory agents

Tatiani Uceli Maioli (UFMG)

11:30-12:30 h - Plenary Lecture

Pericytes at the intersection between tissue regeneration and pathology

Chair: **Valbert Nascimento Cardoso** (UFMG)

Speaker: **Alexander Birbrair** (UFMG)

12:30- 13:30 h - Technical Lecture

Como melhorar seu protocolo de purificação de proteínas

Speaker: **Fellipe Bronze**-Assessor Científico da Sinapse Biotecnologia LTDA.

12:30-14:00 h - Lunch

14:00-16:00 h - Sessions

Risks to the environmental and health due to the uranium mining in Brazil

Chair: **Silvia Maria Velasques de Oliveira** (SBBN)

Nuclear fuel cycle in Brazil

Aquilino Senra (COPPE/UFRJ)

Biological effects of chronic exposures in the neighborhood of nuclear fuel cycle facilities

Carlos Eduardo Brandão (UNIRIO / UFRJ)

Immunology in health and disease

Chair: **Marcelo T. Bozza** (UFRJ)

Regulation of CD8 T cell differentiation and function by Polycomb group (PcG) proteins during acute and chronic infections

Renata Pereira (UFRJ)

Mucosal inflammation: quantitative vs. qualitative aspects of Treg cell imbalance

Fabio Barrozo do Canto (UFF)

Immunological scarring: understanding chronic effects of acute infections

Denise Morais da Fonseca (USP)

Combining in vivo imaging and high dimensional phenotyping to understand immune and metabolic development during life

Gustavo Batista de Menezes (UFMG)

Renin, angiotensins, bradykinin, noradrenaline, acetylations and oxidative stress: friends or foes in cardiorenal syndromes? In honor to the memory of Margarida de Mello Aires

Chair: **Adalberto Vieyra** (UFRJ)

Cardiorenal syndrome: the long road from kidney to heart

Marcela Sorelli Carneiro Ramos (UFABC)

Novel role of bradykinin and B2-receptors: regulation of collecting duct renin

Lucienne da Silva Lara (UFRJ)

The role of oxidative stress in the renal alterations underlying the onset of hypertension programmed by intrauterine undernutrition

Leucio Duarte Vieira (UFPE)

Renin-angiotensin system and acetylations: key elements in the cardiorenal alterations provoked by undernutrition and obesity

Humberto Muzi Filho (UFRJ)



12/09 - Thursday

Regulation of muscle mass: cellular and molecular aspects

Chair: **Claudia Mermelstein** (UFRJ)

Calcium and calpain in muscle dystrophy

Claudia Mermelstein (UFRJ)

Role of miR-29 family in skeletal muscle mass control

Anselmo Moriscot (ICB-USP)

Does insulin/IGF-1 signaling mediate the effects of beta-2-adrenergic agonists on skeletal muscle remodeling and function?

Dawit A. Pinheiro Goncalves (EEFFTO-UFMG)

The role of extracellular matrix during myoblast migration

Ingo Riederer (FIOCRUZ)

Photobiomodulation and its applications

Chair: **Marucia Chacur** (ICB-USP)

Application of photobiomodulation in different animal models.

Marucia Chacur (ICB-USP)

Effect of photobiomodulation in different models of orofacial pain

Daniel de Oliveira Martins (ICB-USP)

Is there room for the use of photobiomodulation in the treatment of pain in medicine?

Hazem A. Ashmawi (FMUSP)

Light to treat pain: biophysics of the mechanisms of action and how to perform clinical and experimental procedures

Marcelo Victor P de Sousa (Bright Photomedicine)

Photobiomodulation Therapy as a tool to improve the quality of life in patients in different types of pain

Nathali Cordeiro Pinto (FMUSP)

16:00-18:00 h - Poster Session III and coffee break

18:00-19:00 h - Lectures

Environmental remediation in uranium mining and naturally occurring radioactive material waste

Chair: **Silvia Maria Velasques de Oliveira** (SBBN)

Speaker: **Horst Monken-Fernandes** (International Atomic Energy Agency-IAEA)

Aerobic exercise training as therapy for skeletal myopathy: relevance to heart failure and cancer

Chair: **Ana Paula C. Davel** (UNICAMP)

Speaker: **Patricia C. Brum** (EEFE-USP)

The Immune-Pineal Axis - a chronopharmacological approach for integrating the timing in Physiology and Pathology

Chair: **André Sampaio Pupo** (UNESP)

Speaker: **Regina P. Markus** (USP)

19:10-20:00 h - Curso II 3ª aula / Courses II (3rd class)

Desreguladores endócrinos

Coordenadora: **Maria Izabel Chiamolera** (UNIFESP)

Aula 3 - Plasticantes, Herbicidas e Metais Pesados

Glaecir Roseni Mundstock Dias (UFRJ)

Ritmos Biológicos: mais próximo da sua pesquisa que você imagina

Coordenadora: **Fernanda Gaspar do Amaral** (UNIFESP)

Aula 3 - Discussão Guiada de Projetos - Onde Estão os Ritmos e Como Lidar Com Eles?

Maria Paz Hidalgo (UFRGS)

Avaliação cardiovascular: adequando o método à hipótese

Coordenadora: **Luciana V. Rossoni** (ICB- USP)

Aula 3 - Avaliando a efetividade dos protocolos de treinamento físico

Patrícia C. Brum (EEFE-USP)

How to make the most of optical microscopy

Chair: **Manoel Luis Costa** (UFRJ)

Class 3 - Demonstration of the possibilities and limitations in optical microscopy and image processing

Manoel Luis Costa (UFRJ)

Modelagem animal: o que preciso fazer para ter resultados precisos

Coordenador: **Marcel Frajblat** (UFRJ)

Aula 3 - Dor e controle da dor em animais de laboratório

Marcel Frajblat (UFRJ)

Molecular pathways in cell death subroutines

Coordenadora: **Giselle Zenker Justo** (UNIFESP)

Aula 3 - Metabolic control of cell death.

Giselle Zenker Justo (UNIFESP)

Proteomics for everyone

Chair: **Giuseppe Palmisano** (ICB-USP)

Class 3 - Identification of protein phosphorylation by proteomics approaches

Giuseppe Palmisano (ICB-USP)/ **Jose Cesar Rosa** (USP-RP)



13/09 - Friday

8:00-9:00 h - Curso I (3ª aula) / Courses I (3rd class)

Redação Científica: Artigos, Projetos e Ética

Coordenador: **Walter Araujo Zin** (UFRJ)

Aula 3 - Elaboração de Projeto de Pesquisa

Dalton Valentim Vassallo (UFES/ EMESCAM)

Revisiting the Physiology Teaching

Chair: **Maria Tereza Nunes** (ICB- USP)

Class 3 - Using arts to foster the learning of scientific concepts

Camilo Lellis-Santos (UNIFESP, Diadema – SP)

Imagens de Bases Moleculares

Coordenador: **Valbert Nascimento Cardoso** (UFMG)

Aula 3 - Nanoformulações para tratamento

Valbert Nascimento Cardoso (UFMG)

O tecido muscular esquelético: da estrutura a aspectos adaptativos

Coordenador: **Anselmo Moriscot** (ICB- USP)

Aula 3 - Mecanismos celulares e moleculares envolvidos na resposta regenerativa muscular

Anselmo Moriscot (ICB- USP)

Canais para íons em membranas celulares

Coordenador: **Antônio Carlos Cassola** (ICB- USP)

Aula 3 - Topologia de canais para cátions assemelhados aos canais dependentes de voltagem

Antônio Carlos Cassola (ICB- USP)

Advanced tissue-based techniques in drug development, with emphasis on toxicologic pathology and safety pharmacology applications

Chair: **Gilberto De Nucci** (UNICAMP/USP)

Class 3 - Core techniques in the development of therapeutic oligonucleotides

Cécile Sobry (Citoxlab, France)

Bioimpressão 3D na Medicina Regenerativa

Coordenadora: **Marimelia Porcionatto** (UNIFESP)

Aula 3 - Desafios e Perspectivas da Bioimpressão 3D

Marimelia Porcionatto (UNIFESP)

09:30-11:30 h - Sessions and Awards

A tribute to Margarida de Mello Aires, the leading lady of renal physiology

Chair: **Maria Oliveira de Souza** (ICB-USP)

Small extracellular vesicles and kidney disease models: a tribute to the leading lady of renal physiology

Adalberto Vieyra (IBCCF & CENABIO-UFRJ)

Everything started in the kidney... but ended in the heart... A trajectory through the Renin-Angiotensin System

Maria Luiza Barreto Chaves (ICB-USP)

Glucose - an energetic substrate that modifies proximal reabsorption and, in excess, impairs renal function and promotes fetal programming

Guiomar Nascimento Gomes (UNIFESP)

Margarida de Mello Aires: Physiologist, scientist, teacher and friend

Maria Oliveira de Souza (ICB/ USP) and **Gerhard Malnic** (ICB-USP)

New approaches in animal vision research

Chair: **Leonardo Dutra Henriques** (USP)

Evaluation of New World monkeys color vision with an adaptation of Cambridge Colour Test

Leonardo Dutra Henriques (USP)

Suprathreshold chromatic discrimination in tufted capuchin monkeys (*Sapajus apella*)

Letícia Miquilini de Arruda Farias (UFPA)

Oral presentation 1: TBD

Oral presentation 2: TBD

Development, aging and cell functions

Chair: **Patricia Gama** (ICB-USP)

Development, diet and hepatic functions

Gustavo Batista de Menezes (UFMG)

Breastfeeding and the priming of gastric cell functions

Patricia Gama (ICB-USP)

Oral presentation 1: TBD

Oral presentation 2: TBD



13/09 - Friday

BRAVO Award

SBEM Award

11:30 -13:30 h - **Closing Ceremony**

“Science Service Award - FeSBE 2019”

Lecture **Wanderley de Souza** (UFRJ)

Awardees Announcement: FeSBE Affiliated Societies -
“Prêmio Professor de Ciências do Ano FeSBE 2019” - Pos-
ter Presentation

Closing Remarks