

Scientific Program

45th. Annual Meeting of Brazilian Society for Biochemistry and Molecular Biology
June 18 to 21, 2016

Conferences

Saturday, June 18th - 6 pm

Room: Lavosier Maia

Conference 1 (Opening Lecture)

Chair: José Roberto Meyer Fernandes, Instituto de Bioquímica Médica, Universidade Federal do Rio de Janeiro (IBqM-UFRJ)

Anibal E. Vercesi

Faculdade de Ciências Médicas, Universidade Estadual de Campinas (FCM -Unicamp)
Forty Years Investigating the Role of Mitochondria in Cell Life and Death in Mammals, Plants, Trypanosomes and Fungi

Sunday, June 19 - 11:00 to 12:00

Room: Lavosier Maia

Conference 2

Chair: Jerson L. da Silva, Instituto de Bioquímica Médica, Universidade Federal do Rio de Janeiro (IBqM-UFRJ)

Enrico Gratton

Laboratory of Fluorescence Dynamic, University of California, Irvine, USA
What Autofluorescence Can Tell Us About Metabolism and Diseases in Tissues?

Room: Ponta Negra

Conference 3

Chair: Mario Alberto Silva Neto, Instituto de Bioquímica Médica, Universidade Federal do Rio de Janeiro (IBqM-UFRJ)

Norbert Perrimon

Harvard Medical School and HHMI, Harvard University
Signaling Mechanisms Involved in Gut Regeneration

Monday, June 20 - 11:00 to 12:00

Room Lavoisier Maia

Conference 4

Chair: Hernan Francisco Terenzi, Universidade Federal de Santa Catarina (UFSC)

Suely Lopes Gomes

Instituto de Química, Universidade de São Paulo (IQ-USP)
Light Perception in the Aquatic Fungus Blastocladiella emersonii Involves a Rhodopsin – Guanylyl Cyclase Fusion Protein

Monday, June 20 - 11:00 to 12:00

Room Ponta Negra

Conference 5

Chair: Katia Castanho Scortecci, Universidade Federal do Rio Grande no Norte (UFRN)

Scott Michaels

Indiana University – USA

Large-Scale Heterochromatic Remodeling Facilitates DNA Repair

Tuesday, June 21 - 11:00 to 12:00

Room Lavoisier Maia

Conference 6

Chair: Paulo Lee Ho, Instituto Butantan

Amilcar Tanuri

Instituto de Biologia, Dep. de Genética, Universidade Federal do Rio de Janeiro (UFRJ)

Comparing Biological Properties of African and Brazilian ZIKV strains.

Room Ponta Negra

Conference 7

Chair: Aline Maria da Silva, Instituto de Química, Universidade de São Paulo (IQ-USP)

Nikos Kyrpides

DOE Joint Genome Institute

Identifying the micro from the peta: tales of big data in the micro world

Symposia

Sunday, June 19 – 8:30 to 10:30 am

Room Lavoisier Maia

SP-01 Multifaceted Mitochondria

Chair: Alicia J. Kowaltowski, Instituto de Química, Universidade de São Paulo (IQ-USP)

Ivan de Godoy Maia, Instituto de Biociências, Universidade Estadual Paulista, (IB-Unesp, Botucatu)

Mitochondrial Uncoupling Proteins in Plants: Molecular and Functional Aspects

Iseli L. Nantes, Universidade Federal do ABC (UFABC)

One More Function of Cytochrome C: Fusion of the Inner Mitochondrial Membrane

Nadja Souza-Pinto, Instituto de Química, Universidade de São Paulo (IQ-USP)

Molecular Mechanisms for Maintaining Mitochondrial DNA Stability in Alzheimer's Disease

Alicia J. Kowaltowski, Instituto de Química, Universidade de São Paulo (IQ-USP)

Caloric Restriction Increases Brain Mitochondrial Calcium Retention Capacity and Protects against Excitotoxicity

Sunday, June 19 – 8:30 to 10:30 am

Room: Ponta Negra

SP-02 Systems Biology and Biomarkers for Human Disorders

Chair: **Daniel Martins-de-Souza**, Depto. Bioquímica, Universidade Estadual de Campinas (UNICAMP)

Emmanuel Dias-Neto, AC Camargo Cancer Center
Genomic biomarkers in human cancer

Vitor M. Faça, Faculdade de Medicina de Ribeirão Preto, Universidade de São Paulo (FMRP-USP)
Application of Targeted Proteomics to Track Epithelial to Mesenchymal Transition in Adenocarcinomas

Daniel Martins-de-Souza, Dep. Bioquímica, Universidade Estadual de Campinas (UNICAMP)
Neuroproteomics to Unravel the Molecular Underpinnings of Psychiatric Disorders

Helder I Nakaya, Faculdade de Ciências Farmacêuticas, Universidade de São Paulo (FCF-USP)
System Biological Approaches to Predict and Understand Infectious Diseases

José Luiz de Lima Filho, Laboratório de Imunopatologia Keizo Asami, Universidade Federal de Pernambuco (LIKA-UFPE)
Biosensors

Sunday, June 19 – 8:30 to 10:30 am

Room Fernando Paiva

SP-03 Combining Experiments and Modelling to Understand Biomolecules

Chair: **Guilherme Menegon Arantes**, Instituto de Química, Universidade de São Paulo (IQ-USP)

Hongbin Li, Department of Chemistry, University of British Columbia, Canadá
Folding and Unfolding Mechanism of the Metalloprotein Rubredoxin: a Single Molecule Force Spectroscopy Perspective

Paulo Augusto Netz, Universidade Federal do Rio Grande do Sul (UFRGS)
Computer Simulation of Nucleic Acids: Across Scales and Across Methods.

Guilherme Menegon Arantes, Instituto de Química, Universidade de São Paulo (IQ-USP)
Multi-Scale Modelling of the Mechanical Stability of a Simple Iron-Sulfur Protein

Room Pipa

SP-04 Symposium Chile-Brazil: Neurochemistry

Chair: Rafael Linden, Inst.de Biofísica Carlos Chagas Filho, Univ.Fed. do Rio de Janeiro (IBCCF-UFRJ)

Lisette Leyton, Universidad de Chile

Cell Adhesion Molecules in Bidirectional Signaling between Neurons and Astrocytes

Leonardo Guzman, Depto de Fisiología, Universidad de Concepción, Chile

Inhibition of ethanol potentiation of glycine receptor by small molecules. From *in silico* to *in vivo*.

Carmen Gottfried, Universidade Federal do Rio Grande do Sul (UFRGS)

The Impact of Neuroimmune Alterations in the Pathophysiology of Autism Spectrum Disorder

Rafael Linden, Instituto de Biofísica Carlos Chagas Filho, Univ.Federal do Rio de Janeiro (IBCCF-UFRJ)

The Biological Function of the Prion Protein in Neurological Health and Disease

Sunday, June 19 – 13:30 to 15:30

Room Lavoisier Maia

SP-05 Hematophagous Animals: Rich Source of Protease Inhibitors. Structural and Function Relationship

Chair: **Aparecida Sadae Tanaka**, Universidade Federal de São Paulo (UNIFESP)

Pedro José Barbosa Pereira, Universidade do Porto, Portugal

Cysteine-less Natural Thrombin Inhibitors: Flexible but Effective

Albert Mulenga, Texas A&M University, USA

Unraveling Tick Evasion of Host Immunity: Evidence of Antigenic Variation Equivalent Mechanism in Tick Saliva & its Impact on Tick Vaccine Design

Lucas Tirloni, Centro de Biotecnologia, Universidade Federal do Rio Grande do Sul (CBIOT-UFRGS)

The Cattle Tick Rhipicephalus microplus Saliva: A Source of Serine Proteinase Inhibitors

Aparecida Sadae Tanaka, Universidade Federal de São Paulo (UNIFESP)

Tick and Kissing bug versus Kunitz and Kazal Type Serine Protease inhibitors.

Sunday, June 19 – 13:30 to 15:30

Room: Ponta Negra

SP-06 Symposium Gregório Weber

Chair: Jerson L. da Silva, Instituto de Bioquímica Médica, Univ. Fed. do Rio de Janeiro

(IBqM-UFRJ)

Enrico Gratton, University of California, Irvine
Fluorescence Correlation Spectroscopy in the Light Sheet Microscope

David Jameson, University of Hawaii
A Fluorescent Lifetime: Reminiscing About Gregorio Weber

Debora Foguel, Instituto de Bioquímica Médica, Universidade Federal do Rio de Janeiro (IBqM-UFRJ)
To be announced

Room Fernando Paiva

SP-07 Marine Biotechnology

Chair: Fabiano Thompson, Instituto de Biologia, Universidade Federal do Rio de Janeiro (IB-UFRJ)

Renato C. Pereira, Instituto de Biologia, Universidade Federal Fluminense (UFF)
Laboratory Production of Marine Natural Products

Roberto Berlinck, Instituto de Química de São Carlos, Universidade de São Paulo (IQSC-USP)
New Biosynthetic Routes of Secondary Metabolites from Marine Microorganisms

Fabiano Thompson, Instituto de Biologia, Universidade Federal do Rio de Janeiro (IB-UFRJ)
Environmental Genomics and the Functioning of Marine (Reef) Systems

Luis Gadelha, Laboratório Nacional de Computação Científica (LNCC)
BAMBA, The Brazilian Marine Diversity Database

Room Pipa

SP-08 Symposium Portugal-Brasil: Novel Insights in Neurodegeneration

Chair: Vilma Martins, AC Camargo Cancer Center

Dora Brites, University of Lisbon
Heterogeneity of Astrocytes and Microglia in Neurodegenerative Diseases

Luís Almeida, University of Coimbra
From Gene to Therapy of Machado-Joseph Disease

Yraima M.L. Cordeiro, Instituto de Bioquímica Médica, Univ. do Rio de Janeiro (IBqM-UFRJ)
In vitro and In silico Approaches to Screen and Select Prototype Compounds for Prion Disease's Therapy

Vilma Martins, AC Camargo Cancer Center

Prion Protein and the Regulation of Exosome Secretion and Autophagy: The Relevance in Neurodegenerative Diseases.

Sunday, June 19 – 13:30 to 15:30

Pavilion Morton Mariz de Faria – Room 3

SP-09 SBBq-GE Healthcare: 20th Prize for Young Talent for Life Science

Chair: José Roberto Meyer Fernandes, Instituto de Bioquímica Médica, Universidade Federal do Rio de Janeiro (IBqM-UFRJ)

Ernesto Martin Cuevasanta Dans, Instituto de Química Biológica, Universidad de La Republica (IQB-UDELAR), Uruguay
Reactivity of Hydrogen Sulfide towards Disulfides and Sulfenic Acids

Fernanda Maria Policarpo Tonelli, Universidade Federal de Minas Gerais, UFMG
Functionalized Nanomaterials to Deliver Genes to Difficult-to-transfect Cells

Jorge Estaban Diaz Fuentes, Universidad de Chile
Caveolin-1 Promotes Migration, Invasion and In vivo Metastasis Via a Novel Rab5/Tiam1/Rac-1 Signaling Axis

Maira Assunção Bicca, Universidade Federal de Santa Catarina (UFSC)
The Role of Transient Receptor Potential Ankyrin 1 (TRPA1) as a Target in Alzheimer's Disease

Mychael Vinicius da Costa Lourenço, Instituto de Bioquímica Médica, Universidade Federal do Rio de Janeiro (IBqM-UFRJ)
Novel Mechanisms of Synaptic Dysfunction and Neuroprotection in Alzheimer's Disease

Monday, June 20 - 8:30 to 10:30

Room Lavoisier Maia

SP-10 Regulation of Protein Import into the Nucleus

Chair: Marcos Roberto de Mattos Fontes, Instituto de Biociências, Universidade Estadual de São Paulo (IB-UNESP-Botucatu)

Bostjan Kobe, University of Queensland, Austrália
Structural Biology and Regulation of the Classical Nuclear Import Pathway

Marcos Roberto de Mattos Fontes, Instituto de Biociências, Universidade Estadual de São Paulo (IB-UNESP-Botucatu)
Nuclear Transport of DNA Repair Proteins

Rafael Couñago, Structural Genomics Consortium, Universidade Estadual de Campinas (UNICAMP)
Classical Nuclear Import Pathway in Plants - Structural Basis for the Interaction between Rice Importin- α and Plant-Specific Nuclear Localization Sequences

Andréa R. Avila, Instituto Carlos Chagas, Fundação Oswaldo Cruz (ICC-FIOCRUZ)
mRNA Export in Mammals and Parasites: They Use the Same Pathways?

Monday, June 20 - 8:30 to 10:30

Room: Ponta Negra

SP-11 The Regulation of the Energy Metabolism in Plants

Chair: **Carlos Takeshi Hotta**, Instituto de Química, Universidade de São Paulo (IQ-USP)

Alex Webb, University of Cambridge, UK
Metabolic Regulation of the Circadian Clock of Arabidopsis

Camila Caldana, Lab. Nacional de Ciência e Tecnologia do Bioetanol (CTBE)
Deciphering Plant Metabolic Regulation Puzzle: The Role of TOR Kinase Signalling

Adriano Nunes Nesi, Universidade Federal de Viçosa (UFV)
The Contribution of Mitochondrial Metabolism in Photosynthesis

Michel Vincentz, CBMEG-Universidade de Campinas (Unicamp)
AtpZIP63 Modulates the Pace of Starch Degradation in Arabidopsis thaliana

Room Fernando Paiva

SP-12 Natural and Synthetic Antioxidants: Applications in the Therapy for Oxidative Stress-Related Diseases

Chair: **Cristiano Jorge Riger**, Universidade Federal Rural do Rio de Janeiro (UFRRJ)

Sílvia Maria Suter Correia Cadena, Universidade Federal do Paraná (UFPR)
Biological Activities of Mesoionic Compounds: Mitochondrial Dysfunction and Cell Toxicity

Marcos Dias Pereira, Instituto de Química, Universidade Federal do Rio de Janeiro (IQ-UFRJ)
Synthetic Antioxidants; an Alternative Pathway for Therapy of Age-Related Diseases

Giselle Cerchiaro, Universidade Federal do ABC (UFABC)
Chemical Quantification of Bioessential Metals in Biological Samples and Implications in Neurodegeneration and Oxidative Stress

Vanusa Manfredini, Universidade Federal do Pampa (UNIPAMPA)
Functional Foods Improve Biochemical and Oxidative Stress Parameters in vivo.

Monday, June 20 - 8:30 to 10:30

Room Pipa

SP-13 Symposium Philip A.j. Gorin: "Glycan Diversity in Fungi and Sea Organisms"

Chair: **Eliana Barreto-Bergter**, Inst. Microbiologia Paulo de Góes, Universidade Federal do Rio de Janeiro (IMPG-UFRJ)

Guilherme L. Sassaki, Depto de Bioquímica e Biologia Molecular, Universidade Federal do Paraná (UFPR)

Challenges and Back to Old School Lessons to Resolve and Develop Approaches for Structural Analysis: The Professor Gorin's Pathway to Move on...

Paulo A.S. Mourão, Hospital Universitário Clementino Fraga Filho, Universidade Federal do Rio de Janeiro (IBqM-UFRJ)

Perspective on the Use of Sulfated Polysaccharides from Marine Organisms as a Source of New Antithrombotic Drugs

Hugo Alexandre Rocha, Centro de Biociências, Universidade Federal do Rio Grande do Norte (UFRN)

Insights into Several Activities of Fucan from Seaweed Spatoglossum schröderi

Eliana Barreto-Bergter, Inst. Microbiologia Paulo de Góes, Universidade Federal do Rio de Janeiro (IMPG-UFRJ)

Diversity of Galactose-Containing Structures in Fungal Cells

Barbara Mulloy, Glycosciences Laboratory, Imperial College London, UK

NMR Spectroscopy in the Characterization of Complex Glycans

Monday, June 20 - 13:30 to 15:30

Room Lavoisier Maia

SP-14 Macromolecules: Structure and Function

Chair: **Maria Luiza Vilela Oliva**, Universidade Federal de São Paulo (Unifesp)

Jonas Emsley, School of Pharmacy, University of Nottingham, UK

Structure of Coagulation FXI bound to a Peptide Derived from Laminin

Julio Scharfstein, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro (IBCCF-UFRJ)

Endothelial Barrier Breakdown in Experimental Chagas Disease: Inflammatory Edema Propagated Via the Kallikrein-Kinin System Fuels Intracardiac Parasitism and Associated Pathology

Iolanda Tibério, Faculdade de Medicina, Universidade de São Paulo (FM-USP)

Protease Inhibitors: Potential Therapeutic Effects in Experimental Models of Asthma and COPD

Guacyara Motta, Universidade Federal de São Paulo (Unifesp)

The Endocytosis Mediated by Proteoglycans Controls Plasma Kallikrein/Kinin System Activity

Monday, June 20 - 13:30 to 15:30

Room: Ponta Negra

SP-15 Metabolic Disease and Molecular Control of Mitochondrial Function in Muscle and Adipose

Tissue

Chair: Leonardo R Silveira, Instituto de Biologia, Universidade Estadual de Campinas (IB-UNICAMP)

Richard C. Scarpula, Northwestern Medical School, USA

PRC and c-MYC Act in Concert through Akt-GSK-3 Signaling to Mediate a Stress Response to Respiratory Chain Uncoupler

Leonardo R Silveira, Instituto de Biologia – UNICAMP

Overexpression of Pyruvate Carboxylase (PC) Improve the Oxidative Energy Metabolism in Skeletal Muscle Cells.

Marcelo A.S. Mori, Universidade Federal de São Paulo (Unifesp)

Rewiring Metabolism by Targeting Dicer in Adipocytes

Elaine C. Vieira, Universidade Estadual de Maringá (UEM)

Effects of Melatonin on Mitochondrial Function and Insulin Resistance in Rat Skeletal Muscle

Room Fernando Paiva

SP-16 Symposium Uruguay-Brazil - Enzymes: Basics and Applications

Chair: **Sandro R. Marana**, Instituto de Química, Universidade de São Paulo (IQ-USP)

Cecilia Giacomini, Facultad de Química, Univ. de La Republica

Immobilized Glycosidases: Interesting Tools for the Elucidation of Carbohydrate-Protein Interaction in Biological Processes

Martín Flo, Instituto de Higiene, Univ. de La Republica

An Expanded and Functionally Diverse Family of Kunitz Inhibitors from a Metazoan Parasite

Ranilson de Souza Bezerra, Centro de Ciências Biológicas, Universidade Federal de Pernambuco (CCB-UFPE)

Fish Processing Waste as a Source of Enzymes for use in Commercial Detergents

Sandro R. Marana, Instituto de Química, Universidade de São Paulo (IQ-USP)

Protein Structure Network and Thermal Stability

Monday, June 20 - 13:30 to 15:30

Room Pipa

SP-17 Glycobiology of the Cancer

Chair: Wagner B. Dias Inst. de Biofísica Carlos Chagas Filho, Univ. Federal do Rio de Janeiro (IBCCF-UFRJ)

Maria Aparecida da Silva Pinhal, Universidade Federal de São Paulo (Unifesp)

Heparan Sulfate Proteoglycan Mediates Resistance in Breast Cancer Cells

Julio Cezar M. de Freitas, Instituto Nacional do Cancer (Inca)
Role of N-Glycans in Colorectal Cancer: Functional and Biomarker Applications

Mauro Pavão, Instituto de Bioquímica Médica, Universidade Federal do Rio de Janeiro (IBqM-UFRJ)
Inhibition of Manganese-Mediated Tumor Cell Migration by Heparin Analogs

Wagner B. Dias, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro (IBCCF-UFRJ)
Glucose Metabolism and Aberrant Glycosylation during Epithelial Mesenchymal Transition: Role of O-GlcNAc

Tuesday, June 21 - 8:30 to 10:30

Room Lavoisier Maia

SP-18 Epigenetics of Host-Pathogens Interactions

Chair: Marcelo Fantappiè, Universidade Federal do Rio de Janeiro

Renata M.S. Pereira, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro (IBCCF-UFRJ)
Chromatin Accessibility in CD8 T Cell Fates Uncovered by Genome-Wide Studies

Frank Lyko, Abteilung Epigenetik (A130), Deutsches Krebsforschungszentrum
Epigenetic DNA Modifications in Aedes aegypti

Sergio Verjovski-Almeida, Instituto Butantan
Inhibitors of Schistosome Histone Modifying Enzymes: Effects on Large-Scale Gene Expression

Ulisses G. Lopes, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro (IBCCF-UFRJ)
The NFKB1/HDAC1 Complex Controls the Outcome of Leishhmania Infeccion in Human Macrophages

Tuesday, June 21 - 8:30 to 10:30

Room: Ponta Negra

SP-19 Teaching Research Integrity? Let Us Count the Ways

Chair: Martha M Sorenson, Instituto de Bioquímica Médica, Universidade Federal do Rio de Janeiro (IBqM-UFRJ)

Harold Ray Garner Jr, Medical Informatics, Translation, Training and Ethics (MITTE) Office, Virginia Tech
Finding and Learning from Ethical Breaches by Scientists

Marcela Sorelli, UFABC
Research Integrity at Universidade Federal Do ABC

André L. Pinto, Centro Bras. Pesquisa Física (CBPF)
Difficulties and Advances in Teaching Good Practices in Scientific Research

Rosemary S.A.Shinkai, Fac Odontologia, PUCRS
The Building Blocks of a Research Integrity Culture in the University

Tuesday, June 21 - 8:30 to 10:30

Room Fernando Paiva

SP-20 Symposium SBBq-Conesul I - Young Scientist Platform Session

Chair: Daniela Basseres, Instituto de Química, Universidade de São Paulo (IQ-USP)

Jéssica de Andrade da Costa, Instituto Nacional do Câncer (INCA)
*Altered N-glycosylation in Progeny from Irradiated Colorectal Cancer Cells
Contribute to Acquisition of EMT-Like Phenotype*

Bruna Alves Fenerich, Faculdade de Medicina de Ribeirão Preto, Universidade de
São Paulo (FMRP-USP)
*The IGF1R/IRS Inhibitor NT157 Induces Apoptosis and STAT3 Inhibition in
JAK2V617F Cells*

Damian Emilio Berardi, Institute of Oncology “Ángel H. Roffo”, Argentina
*Pharmacological Inhibition of PKC α and Retinoic Acid Synergize to Inhibit Tumour
Progression and Impair Self-Renewal of Cancer Stem Cells through RAR γ 2
Modulation in a Murine Triple Negative Mammary Cancer Model.*

Matheus Rodrigues Lopes, University of Campinas (FCM/Hematology and
Hemotherapy Center)
*The Role of IL32 in the Acute Myeloblastic Leukemia Chemoprotection and
Leukocyte Migration*

Maria Fernanda Forni, Instituto de Química, Universidade de São Paulo (IQ-USP)
Caloric Restriction Promotes Fur Remodeling as a Thermoregulatory Mechanism

Tuesday, June 21 - 8:30 to 10:30

Room Pipa

SP-21 Ion Pumps Boom: From Yeast to Cancer Bioenergetics

Chair: Arnaldo Rocha Façanha, Universidade Estadual do Norte Fluminense (UENF)

Raul Martinez-Zaguilan, Texas Tech University, USA
Vacuolar H⁺-ATPases in Tumor Angiogenesis

Antonio Galina Filho, Instituto de Bioquímica Médica, Universidade Federal do
Rio de Janeiro (IBqM-UFRJ)
Targeting Bioenergetics Diversity and Convergence in Cancer and Plant Cells

Arnaldo Rocha Façanha, Universidade Estadual do Norte Fluminense (UENF)

Ion Pumps Boom: From Yeast to Cancer Bioenergetics

Lucília Maria Abreu Lessa, Universidade Estadual do Ceará (UECE)

Peptide and Ionic Modulation of Renal H⁺-ATPases

Tuesday, June 21 - 13:30 to 15:30

Room Lavoisier Maia

SP-22 Biochemistry of Spiders

Chair: **Adriana Rios Lopes**, Instituto Butantan

Glen King, Univ of Queensland, Australia

Natural Insecticidal Peptides from Spider Venom for Control of Crop Pests and Disease Vectors

Lucia Kuhn-Nentwig, University of Bern, Switzerland

Function of a Hyaluronidase-Like Enzyme in the Venom of Spiders

Pedro Ismael da Silva Junior, Instituto Butantan

Arachnida Hemolymph and Immunity

Alexandre K. Tashima, Universidade Federal de São Paulo (Unifesp)

Disclosing the Toxin Arsenal of Acanthoscurria juruenicola Spider Venom in Depth Proteome and Transcriptomic Analysis

Tuesday, June 21 - 13:30 to 15:30

Room: Ponta Negra

SP-23 Molecular and genomics approaches to uncover pathophysiologic mechanisms of complex diseases

Chair: **Selma Jeronimo** Universidade Federal do Rio Grande do Norte (UFRN)

Walderez Dutra, Universidade Federal de Minas Gerais (UFMG)

Cellular, genetic and molecular aspects associated with the differential clinical evolution of human Chagas disease.

Leonardo Capistrano Ferreira, Dep. of Biochemistry, Universidade Federal do Rio Grande do Norte (UFRN)

Berardinelli Syndrome as Model for the study of metabolic and infectious diseases:

Helena Oliveira, Instituto de Biologia, Universidade Estadual de Campinas (IB-Unicamp)

Cholesterol and cardiovascular disease

Mary E. Wilson, The University of Iowa, Iowa City, Iowa

The role of host and vector microbiome in infectious Diseases

Tuesday, June 21 - 13:30 to 15:30

Room Fernando Paiva

SP-24 Symposium SBBq-Conesul II - Young Scientist Platform Session

Chair: Maria Tereza dos Santos Correia (UFPE)

Rafael Teixeira Tiburcio dos Santos, Centro de Pesquisas Gonçalo Moniz,
Laboratório de Microbiologia, BA

*Neutrophil State of Activation Modulates Dendritic Cells Susceptibility to
Leishmania amazonensis Infection*

Luiza Gervazoni Ferreira de Oliveira, Fundação Oswaldo Cruz (Fiocruz), RJ
2'-Hydroxyflavanone Effects In vitro and In vivo against Leishmania amazonensis

Daiane Patrícia Oldiges, Centro de Biotecnologia, Universidade Federal do Rio
Grande do Sul (CBIOT-UFRGS)

Babesia bovis as an Anti-Tick Live Vector Vaccine

Mateus Grings, Universidade Federal do Rio Grande do Sul (UFRGS)
*Bezafibrate Prevents Mitochondrial Dysfunction and Redox Homeostasis
Impairment Induced by Sulfite Administration in Rat Striatum*

Vitor Coutinho Carneiro, Instituto de Bioquímica Médica, Universidade Federal do
Rio de Janeiro (IBqM-UFRJ)

Targeting Epigenetic Regulators to Control Schistosomiasis

Tuesday, June 21 - 13:30 to 15:30

Room Pipa

SP-25 Generating Novel Pharmacies and Biomedical Devices by using Antimicrobial Peptides

Chair: Octavio Luiz Franco, Universidade Católica de Brasília (UCB)

Cesar da Le Fuente-Nunez, MIT-US
Next-Generation Engineered Peptide Antibiotics

Ludovico Migliolo, Universidade Católica Dom Bosco- MS (UCDB)
*Rational Design to Bioactive Peptides in the Development of Biotechnological
Tools for Therapies against Human Pathogens*

César Augusto Souza de Andrade, Universidade Federal de Pernambuco (UFPE)
Development of Multiple Biomedical Nanodevices by Using Antimicrobial

Octavio Luiz Franco, Universidade Católica de Brasília UCB)
*Elucidation of synthetic and natural multifunctional peptides for development of
biotechnological tools*