



## 55<sup>th</sup> Brazilian Congress of Pharmacology and Experimental Therapeutics



Exploring New Technologies in  
Pharmacology and Therapeutics

Rafain Palace Hotel & Convention Center  
Foz do Iguaçu, PR, Brazil



September  
**25-28**  
2023

## MELHORES POSTERES 2023

### 01. Cellular and Molecular Pharmacology

#### MSc Student

*Ana Helena Larangeira Nóbrega*

**01.011 Organotypic hippocampal culture as a model to study the interaction of glioblastoma with the brain microenvironment.** Nóbrega AHL<sup>1</sup>, Prado APS<sup>1</sup>, Pimentel RS<sup>1</sup>, Santos ARC<sup>2</sup>, Valério RR<sup>2</sup>, Martins MA<sup>1</sup>, Frozza RL<sup>2</sup>, Bernardi A<sup>1</sup>. <sup>1</sup>IOC-Fiocruz, Lab. of Inflammation, Rio de Janeiro, Brazil; <sup>2</sup>IOC-Fiocruz, Lab. on Thymus Research, Rio de Janeiro, Brazil

#### PhD student

*Mariana Correia de Oliveira Alves*

**01.007 The Gasotransmitter Hydrogen Sulfide (H<sub>2</sub>S) Potentiates the Ex Vivo Secretion of  $\alpha$ -Amylase Induced by Both Adrenergic and Cholinergic Agonists on Murine Salivary Glands.** Oliveira-Alves MC, Almeida ARB, Teixeira SA, Costa SKP, Muscará MN. USP, Dpt of Pharmacology, Lab. of Biochemical Pharmacology of Free Radicals, Inflammation and Pain, Brazil

### 02. Neuropharmacology

#### IC/Undergraduate Student

*Bruna Haendchen Sant'Ana*

**02.019 Intermittent Taurine Administration Increases Alcohol Consumption in Adolescent Male Rats Exposed to the Binge Drinking Model.** Sant'Ana BH, Zilli GAL, Bastiani CS, Pulcinelli RR, Izolan LR, Leal MB, Rosane Gomez UFRGS

*Rubén Dario Marulanda Campo*

**02.036 Use of Cannabinoids for the Treatment of Epilepsy Associated with 1p36 Syndrome: A Case Report.** Campo RM, Portilla MC, Santos FC, Novoa DA, Silva EG, Donato MF, Nascimento FP. Unila, Lab. of Medical Cannabis and Psychedelic Science, Foz do Iguaçu, PR, Brazil

*Isabela Pavan Silva*

**02.040 Social Isolation Stress Impairs Fear Extinction Recall in Mice: Effect is Reverted By a Fatty Acid Amide Hydrolase Inhibitor.** Silva IP<sup>1,2</sup>, Coelho AA<sup>1,2</sup>, Lisboa SF<sup>1</sup> <sup>1</sup>FCFRP-USP, Dpt of BioMolecular Sciences, <sup>2</sup>FMRP-USP, Dpt of Pharmacology

#### MSc Student

*Gabriella Candido*

**02.001 Effects of the Poloxamer P188 and the Dispersion P188 and Hydroalcoholic Extract of Propolis in Mice Submitted to Bilateral Occlusion of the Common Carotid Arteries.** Candido G<sup>1</sup>; Kohara NAN<sup>1</sup>; dos Santos RS<sup>2</sup>; Bruschi ML<sup>2</sup>; Milani H<sup>1</sup>; de Oliveira RMW<sup>1</sup>. <sup>1</sup>UEM Maringá, Lab. of Pharmacology and Therapeutics, Brazil; <sup>2</sup>UEM Maringá, Lab. of Research and Development of Drug Delivery Systems, Brazil

#### PhD student

*Camila Andre Cazarin*

**02.009 P-coumaric Acid Derivates from Brazilian Green Propolis Attenuate Behavioral Changes, Oxidative Stress and Barriers Damage in DSS-induced Colitis Model.** Cazarin CA<sup>1</sup>, Bauer ER<sup>1</sup>, Valachinski AW<sup>1</sup>, Longo B<sup>1</sup>, Basílio MI<sup>1</sup>, Machado MS<sup>1</sup>, Silva TFQ<sup>1</sup>, Cury BJ<sup>1</sup>, Venzon L<sup>1</sup>, França TCS<sup>1</sup>,

Santos AC<sup>1</sup>, Nunes RKS<sup>1</sup>, Bastos JK<sup>2</sup>, da Silva LM<sup>1</sup>, de Souza MM<sup>1</sup>.<sup>1</sup>Univali Itajaí, PPG Ciências Farmacêuticas, Brazil; <sup>2</sup>USP, Faculdade de Ciências Farmacêuticas, Ribeirão Preto, Brazil

*Matheus Augusto Patricio de Almeida*

**02.042 Neuroinflammation Induced by *Klebsiella pneumoniae* and the Role of PPAR- $\gamma$ .** Almeida MAP<sup>123</sup>, Costa MF<sup>12</sup>, Moraes-de-Souza I<sup>12</sup>, Moraes BPT<sup>123</sup>, Bozza PT<sup>1</sup>, Castro-Faria-Neto HC<sup>1</sup>, Gonçalves-de-Albuquerque CF<sup>1</sup>, Trindade P4, Silva AR<sup>123</sup>. <sup>1</sup>IOC-Fiocruz, Immunopharmacology Lab., Rio de Janeiro, Brazil; <sup>2</sup>Unirio, Immunopharmacology Lab., Dpt of Physiological sciences, Rio de Janeiro, Brazil; <sup>3</sup>UFF, PPG Neurosciences, Niterói, Brazil; <sup>4</sup>UFRJ, Pharmacy Faculty, Dpt of Clinical and toxicological analyses

### 03. Psychopharmacology

#### MSc Student

*Bruna Longo*

**03.001** Longo B, Nunes RKS, Cazarin CA, Silva TFO, Dos Santos AC, Venzon L, Da Silva LM, Pagliochi ACS, Sievers J, Pilati SFM, De Souza MM, Da Silva LM. Univali, Postgraduate in Pharmaceutical Sciences, SC, Brazil

*Odaias Pereira de Almeida Filho*

**03.025 Evaluation of the Effect of the Hydroalcoholic Extract of *Heteropterys tomentosa* on Memory in Mice.** Almeida Filho OP<sup>1</sup>, Pires JCB<sup>2</sup>, Santana JVS<sup>2</sup>, Freitas-Júnior RAF<sup>3</sup>, Buccini DF<sup>1</sup>, Munhoz CD<sup>1</sup>, Moreno SE<sup>1</sup>. <sup>1</sup>USP, Dpt Pharmacology, PPG pharmacology, Brazil; <sup>2</sup>UCDB, PPG Biotechnology, <sup>3</sup>UFMS PPG Biotechnology

#### PhD student

*Isabel Werle*

**03.006 Effects of Ayahuasca on The Extinction of Contextual Aversive Memories in Rats.** Werle I, Nascimento LMM, Bertoglio LJ UFSC, Dept of Pharmacology, Florianópolis, Brazil

### 04. Inflammation and Immunopharmacology

#### IC/Undergraduate Student

*Maria Alice dos Santos Mascarenhas Brito*

**04.006 The Therapeutic Potential of *Arrabidaea chica* Verlot (Bignoniaceae) in Pulmonary Sepsis.** Brito MASM<sup>1,2,3</sup>, Chagas MSS<sup>1,2</sup>, Moragas-Tellis CJ<sup>3</sup>, Silva AR<sup>2</sup>, Behrens MD<sup>3</sup>, Gonçalves-de-Albuquerque CF<sup>1,2</sup>. <sup>1</sup>Unirio Rio de Janeiro, Dpt of Physiological Sciences, Brazil, <sup>2</sup>IOC-Fiocruz, Rio de Janeiro, Immunopharmacology Lab., Brazil, <sup>3</sup>Farmanguinhos, Natural Products Lab., Rio de Janeiro, Brazil

#### MSc Student

*Aryella Maryah Couto Correa*

**04.009 Evaluation of Cannabinoid Receptor Modulation in the Activation of Human Peripheral Neutrophils.** Correa AMC<sup>2,3</sup>, Pádua TA<sup>2</sup>, Seito LN<sup>2</sup>, Silva PRO<sup>2</sup>, Santos SOS<sup>2</sup>, Henriques MGMO<sup>1,2,3</sup>. <sup>1</sup>IBRAG-UERJ, Lab. of Cellular and Molecular Pharmacology, Dept of Cell Biology, Rio de Janeiro, Brazil, <sup>2</sup>Fiocruz-Farmanguinhos, Lab. of Applied Pharmacology, Rio de Janeiro, Brazil, <sup>3</sup>UERJ-IBRAG - PPG in Biosciences

*Carolina Medina Coeli da Cunha*

#### **04.016 Effect of the Tyrosine Kinase Inhibitor Bosutinib on Sepsis-Induced Brain Dysfunction.**

Cunha CMCD<sup>1,2,3</sup>, Moraes BPT<sup>1,2,3</sup>, Abreu VHP<sup>1,2</sup>, Soares GVM<sup>1,2</sup>, Moraes-de-Souza IM<sup>1,2</sup>, Almeida MAP<sup>1,2,3</sup>, Estado V<sup>3</sup>, Sayão PGF<sup>1,2</sup>, Souto HA<sup>1,2</sup>, Bozza PT<sup>2</sup>, Castro-Faria-Neto HC<sup>2</sup>, Silva AR<sup>2,3</sup>, Gonçalves-de-Albuquerque CF<sup>1,2,3</sup> <sup>1</sup>Unirio, Immunopharmacology Lab, Dept of Physiological Sciences, Rio de Janeiro, Brazil, <sup>2</sup>IOC-Fiocruz, Immunopharmacology Lab, Brazil, <sup>3</sup>UFF, PPG in Neurosciences, Niterói, Brazil

#### **PhD student**

*Renata Rocha do Nascimento*

#### **04.019 SARS-CoV-2 Spike Glycoprotein Ectodomain Induces Gut Inflammation, Luminal Hydroelectrolyte Imbalance, and Impairs Mucosal Integrity in a Novel Murine Model.**

Nascimento RR<sup>1</sup>, Aquino CC<sup>1</sup>, Sousa JK<sup>1,4</sup>, Cajado AG<sup>1</sup>, Gadelha KKL<sup>1</sup>, Rocha JA<sup>2</sup>, Medeiros JVR<sup>2</sup>, Magalhães PJC<sup>1</sup>, Gois BM<sup>3</sup>, Wong DVT<sup>1</sup>, Lima-Junior RCP<sup>1</sup>, Lima AAM<sup>1</sup>, Engevik AC<sup>5</sup>, Nicolau LAD<sup>2</sup>, Vale ML<sup>1</sup> <sup>1</sup>UFC, Dpt of Physiology and Pharmacology, Fortaleza, Brazil, <sup>2</sup>UFDPAr, Biotechnology and Biodiversity Center Research, Parnaíba, Brazil, <sup>3</sup>UFR, Faculty of Health Sciences, Rondonópolis, Brazil; <sup>4</sup>University of Virginia School of Medicine, Division of Infectious Diseases & International Health, Charlottesville, USA; <sup>5</sup>Medical University of South Carolina, Dpt of Regenerative Medicine and Cell Biology, Charleston, USA

*Antônio Felipe Silva Carvalho*

#### **04.024 Role of Glucocorticoid-Induced Leucine Zipper in a Pre-Clinical Model of Pneumonia caused by Pseudomonas aeruginosa.**

Carvalho AFS<sup>1</sup>, Cardoso C<sup>2</sup>, Lara ES<sup>1</sup>, Augusto IL<sup>3</sup>, Caixeta RS<sup>3</sup>, Zaidan I<sup>2,7</sup>, Montuori-Andrade ACM<sup>2,8</sup>, Lima EBS<sup>1</sup>, Carneiro FS<sup>1</sup>, Monteiro AHA<sup>2</sup>, Queiroz-Junior CM<sup>4</sup>, Russo RC<sup>5</sup>, Bruscoli S<sup>9</sup>, Teixeira MM<sup>6</sup>, Sousa LP<sup>1,2,3</sup>. <sup>1</sup>UFMG Belo Horizonte, PPG Clinical and Toxicological Analysis, Brazil, <sup>2</sup>UFMG Belo Horizonte, PPG Pharmaceutical Sciences, Brazil, <sup>3</sup>UFMG Belo Horizonte, Dpt of Clinical and Toxicological Analysis, Brazil, <sup>4</sup>UFMG Belo Horizonte, Dpt of Morphology, Brazil, <sup>5</sup>UFMG Belo Horizonte, Dpt of Physiology and Biophysics, Brazil, <sup>6</sup>UFMG Belo Horizonte, Dpt of Biochemistry and Immunology, Brazil, <sup>7</sup>USP Ribeirão Preto, Dpt of Cellular and Molecular Biology, Brazil, <sup>8</sup>USP Ribeirão Preto, Dpt of Immunology, Brazil, <sup>9</sup>University of Perugia, Dpt of Medicine and Surgery, Italy.

#### **Postdoctorate/Pos-Doc**

*Amanda da Costa Cotias Santana*

#### **04.031 Effect of JMXiBn, a Non-Anesthetic Bupivacaine Analogue, on a Murine Model of Asthma Marked by Steroid Resistance.**

Cotias AC, Serra MF<sup>1</sup>, Azevedo, CT<sup>1</sup>, Costa JCS<sup>2</sup>, Bernardi, A<sup>1</sup>, Carvalho, VF<sup>1</sup>, Cordeiro RSB<sup>1</sup>, Silva PMR<sup>1</sup>, Martins MA<sup>1</sup> <sup>1</sup>IOC-Fiocruz, Lab. de Inflamação, <sup>2</sup>Farmanguinhos-Fiocruz, RJ, Brazil

#### **MSc Student**

*Filipe Camargo Rodrigues*

#### **04.046 Paroxetine Reduces Adrenergic Receptor Internalization.**

Rodrigues FC<sup>1,2</sup>, Galant LS<sup>1,2</sup>, Kanashiro A<sup>1,2</sup>, Borges FV<sup>1,2</sup>, Duarte DA<sup>3</sup>, Costa Neto CM<sup>3</sup>, Pupo AS<sup>4</sup>, Cunha FQ<sup>1,2</sup> <sup>1</sup>FMRP-USP, Dept. of Pharmacology, Brazil; <sup>2</sup>FMRP-USP, Center of Research in Inflammatory Diseases, Brazil; <sup>3</sup>FMRP-USP, Dept. of Biochemistry and Immunology, Brazil; <sup>4</sup>IBB-Unesp-Botucatu, Dept of Biophysics and Pharmacology, Brazil

#### **Postdoctorate/Pos-Doc**

*Amanda da Silva Chaves*

**04.052 The Role of the Renin-Angiotensin System on the Hyperactivity of the Hypothalamus-Pituitary-Adrenal Axis in a Mouse Model of Type 1 Diabetes.** Chaves AS, Magalhães NS, Silva PMR, Martins MA, Carvalho V IOC-Fiocruz, Lab. of Inflammation, Rio de Janeiro, Brazil Rio de Janeiro, Brazil

## 05. Pain and Nociception Pharmacology

### MSc Student

*Náthaly Andrighetto Ruviano*

**05.007 Evaluation of TRPV4 Channel Participation in a Type I Complex Regional Pain Syndrome Induced Nociception Model in Mice.** Ruviano NA<sup>1</sup>, Rodrigues P<sup>2</sup>, Peres DS<sup>2</sup>, Frare JM<sup>2</sup>, Trevisan G<sup>1</sup>  
<sup>1</sup>UFSM, PPG Biological Sciences: Toxicological Biochemistry, Brazil. <sup>2</sup>UFSM, PPG Pharmacology, Brazil

### PhD student

*Fernanda Tibolla Viero*

**05.018 TRPA1 Modulates Nociception in a Model of Migraine-Like Behavior Caused by Unpredictable Sound Stress in Mice.** Viero FT<sup>1</sup>, Rodrigues P<sup>1</sup>, Nassini R<sup>2</sup>, Geppetti P<sup>2</sup>, Trevisan G<sup>1</sup>  
<sup>1</sup>UFSM, Graduate Program in Pharmacology, Santa Maria, RS, Brazil. <sup>2</sup>University of Florence, Dept of Health Science, Clinical Pharmacology and Oncology, Florence, Italy.

## 06. Cardiovascular and Renal Pharmacology

### IC/Undergraduate Student

*Nao Hosomi*

**06.004 Upregulated Hexosamine Pathway contributes to Aneurysmal Vascular Lesion.** Hosomi N<sup>1,2,3</sup>, Silva JF<sup>1,4</sup>, Alves JV<sup>1</sup>, Costa R<sup>1,5</sup>, Mestriner F<sup>6,7</sup>, Nguyen TAV<sup>2</sup>, Becari C<sup>6,7</sup>, Yanagisawa H<sup>2,8</sup>, Tostes R<sup>1</sup>  
<sup>1</sup>FMRP-USP, Dpt of Pharmacology, Brazil, <sup>2</sup>TARA-University of Tsukuba Life Sciences Center for Survival Dynamics, Ibaraki, Japan, <sup>3</sup>University of Tsukuba, School of Medicine and Health Sciences, College of Medical Science, Ibaraki Japan, <sup>4</sup>University of Arizona, Dpt of Physiology, Tucson, USA, <sup>5</sup>UFJ, Academic Unit of Health Sciences, Brazil, <sup>6</sup>FMRP-USP, Dpt of Surgery and Anatomy, Brazil, <sup>7</sup>FOB-USP, Dpt of Biological Sciences, Brazil, <sup>8</sup>University of Tsukuba, Faculty of Medicine, Ibaraki Japan

### MSc Student

*Luan Victor Resque Ramos*

**06.021 The Influence of C3a on Matrix Metalloproteinase (MMP)-2 Activity and Oxidative Stress in Angiotensin-II-induced Hypertension.** Ramos LVR Ramos LVR, Mello MM, Castro MM FMRP-USP, Dept of Pharmacology.

### PhD student

*Filipe Rodolfo Moreira Borges de Oliveira*

**06.010 Protein SUMOylation is involved in Renal Resistance against Ischemia after Hemorrhagic Shock.** Oliveira FRMB<sup>1</sup>, Soares ES<sup>1</sup>, Ramos HP<sup>1</sup>, Lättig G<sup>2</sup>, Harms C<sup>2</sup>, Cimarosti HI<sup>1</sup>, Sordi R<sup>1</sup>. <sup>1</sup>UFSC, PPG Pharmacology, Florianópolis, Brazil; <sup>2</sup>Charité Hospital, Center for Stroke Research, Germany.

*Vinicius Flora Dugaich*

**06.015 Elastase-2, an angiotensin II forming enzyme, is upregulated in human abdominal aortic aneurysm.** Dugaich VF<sup>1</sup>, Mestriner F<sup>1</sup>, Carlos Corsi<sup>1</sup>, Franco D<sup>1</sup>, Vasconcelos J<sup>1</sup>, Jordani MC<sup>1</sup>, Ribeiro

MS<sup>1</sup>, Becari C<sup>2</sup>. <sup>1</sup>FMRP-USP, Div. of Vascular and Endovascular Surgery, Dept of Surgery and Anatomy, Ribeirão Preto, SP, Brazil. <sup>2</sup>FOB-USP, Dept of Biological Science, Bauru, SP, Brazil

*Fabiola Mestriner*

**06.027 The Deletion of Elastase-2, an Angiotensin-II Forming Enzyme, Changes Typical Abdominal Aortic Aneurysm Phenotype in Mouse Model.** Mestriner F<sup>1</sup>, Ribeiro MS<sup>1</sup>, Couto AES<sup>1</sup>, Dugaich VF<sup>1</sup>, Kovacs HZ<sup>1</sup>, Francisco DF<sup>1</sup>, Corsi CAC<sup>1</sup>, Vasconcelos JL<sup>1</sup>, Bruch P<sup>1</sup>, Melo MMB<sup>2</sup>, Neto J<sup>2</sup>, Nakagi VS<sup>1</sup>, Costa RM<sup>2</sup>, Castro MM<sup>2</sup>, Tostes R<sup>2</sup>, Becari Christiane<sup>2,3</sup> <sup>1</sup>FMRP-USP, Division of Vascular and Endovascular Surgery, Dept of Surgery and Anatomy <sup>2</sup>FMRP-USP, Dept of Pharmacology, Ribeirão Preto, SP, Brazil. <sup>3</sup>FOB-USP, Dept of Biological Science, Bauru-SP, Brazil

*Mirele Resende Machado*

**06.033 Estrogen has a Protective Role Against Endothelial Glycocalyx Shedding caused by SARS-CoV-2 Infection.** Machado MR1, Potje SR2, Costa TJ1, Benatti NR3, Martins Júnior RB4, Costa RM5, Tostes RC1 <sup>1</sup>FMRP-USP, Dept.of Pharmacology, Brazil, <sup>2</sup>UEMG, <sup>3</sup>HC-FMRP-USP, <sup>4</sup>FCFRP-USP, <sup>5</sup>UFJ

## 07. Endocrine, Reproductive and Urinary Pharmacology

IC/Undergraduate Student

*Carolina De Moraes Silveira Peixe*

**07.009 Neonatal Overnutrition causes Opposite Effects on Biometric Parameters and Glucose Homeostasis in a Model of Intrauterine Growth Restriction.** Peixe CMS<sup>1</sup>, Lorenzon F<sup>1</sup>, Gregorio T<sup>2</sup>, Santos LC<sup>2</sup>, Santangelo E<sup>1</sup>, Baptista G<sup>3</sup>, Santos GJ<sup>2</sup>, Lima FB<sup>2</sup> <sup>1</sup>UFSC, Dpt. of Physiological Sciences, Florianópolis, <sup>2</sup>UFSC Florianópolis, PPG multicenter in Physiology Sciences, Brazil, <sup>3</sup>UFSC, PPG Pharmacology, Florianópolis, Brazil

PhD student

*Rafaella Valente Nunes Paiva*

**07.003 The Effects of Hypothyroidism Progression Over the Melatonergic System in the Reproductive Tract of Male and Female Rats.** Paiva RVN<sup>1,2</sup>, Mondes PHL<sup>1</sup>, Brandão BJ<sup>1</sup>, SantAnna JN<sup>1</sup>, Santos MEF<sup>1</sup>, Santos LC<sup>2</sup>, Markus RP<sup>3</sup>, Fernandes PACM<sup>3</sup>, Silva JF<sup>2</sup>, Tamura EK<sup>1</sup>. <sup>1</sup>UESC, Dpt. of Health Sciences, Chronobiology Research Group, Ilhéus, Brazil; <sup>2</sup>UESC, Dpt. of Biological Sciences, Center for Research in Reproduction and Endocrinology, Ilhéus, Brazil; <sup>3</sup>USP, Dpt. of Physiology, Lab. of Chronopharmacology, São Paulo, Brazil

## 08. Respiratory and Gastrointestinal Pharmacology

MSc Student

*Matheus Marley Bezerra*

**08.001 Antiulcerogenic Activity of Hesperetin and Carveol in Animal Models.** Pessoa MMB<sup>1</sup>, Pessoa MLS<sup>1</sup>, Alves VP, Silva ML, Araruna MEC, Alves Junior EB, Batista LM UFPB

## 09. Natural Products and Toxinology

IC/Undergraduate Student

*Erick Gabriel Alves Ferreira*

**09.027 Methyl Cinnamate Suppresses TGF- $\beta$ 1-Induced Epithelial-Mesenchymal Transition in Airway Epithelium Through Inhibition of NF- $\kappa$ B p65 Translocation.** Ferreira EGA, Barros ABB, Silva JP, Fidelix MSP, Carmo JOS, Santana JR, Barreto E UFAL, Lab. of Cell Biology, Brazil

*Poliana de Jesus Demico*

**09.002 Enzymatic and Neuromuscular Activities of *Crotalus durissus ruruima* (Viperidae: Crotalinae) Venom and Neutralization by Therapeutic Antivenom in vitro.** Demico PJ<sup>1</sup>, Oliveira IN<sup>1</sup>, Torres-Bonilla KA<sup>2</sup>, Hyslop S<sup>2</sup>, Moura-da-Silva AM<sup>3</sup>, Rocha AM<sup>4</sup>, Maciel JB<sup>4</sup>, Sartim MA<sup>4</sup>, Pucca M<sup>4</sup>, Monteiro WM<sup>4</sup>, Floriano RS<sup>1</sup>. <sup>1</sup>Unoeste, Lab of Toxinology and Cardiovascular Research, Presidente Prudente, Brazil; <sup>2</sup>FCM-Unicamp, Campinas, Dpt of Translational Medicine, Brazil; <sup>3</sup>IB, Lab of Immunology, São Paulo, Brazil; <sup>4</sup>UEA, Graduate Program in Tropical Medicine, Manaus, Brazil

#### **MSc Student**

*Maria Heloisa Barbieri de Souza*

**09.040 Topical Preclinical Therapeutic Efficacy of a New Full-spectrum Cannabis Oil for Skin Diseases.** Souza MHB<sup>1</sup>, Ortega LYM<sup>1</sup>, Maso JM<sup>1</sup>, Kava J<sup>2</sup>, Araújo FS<sup>2</sup>, Stern CAJ<sup>1</sup>, Otuki MF<sup>1</sup>, Cabrini DA<sup>1</sup>. <sup>1</sup>UFPR, PPG Pharmacology, Curitiba, Brazil. <sup>2</sup>Lab. REAJA, Curitiba, Brazil

#### **PhD student**

*Natalia Mulinari Turin de Oliveira*

**09.016 Polysaccharides from Guavira Waste: Biotechnological and Therapeutic Application in Inflammatory Bowel Disease.** Mulinari-Turin de Oliveira N<sup>1</sup>, Bueno LR<sup>1</sup>, Schneider VS<sup>2</sup>, Souza ML<sup>5</sup>, Barbosa da Luz B<sup>2</sup>, da Costa Filho HB<sup>3</sup>, Sousa PSA<sup>4</sup>, Werner MFP<sup>2</sup>, Rocha JF<sup>4</sup>, Gois MB<sup>5</sup>, Nicolau LAD<sup>4</sup>, Cordeiro LMC<sup>2</sup>, Maria-Ferreira D<sup>1</sup>. <sup>1</sup>IPPPP, FPP, PPG Biotecnologia Aplicada a Saúde da Criança e do Adolescente, Curitiba, Brazil; <sup>2</sup>UFPR, Dpt de Bioquímica e de Farmacologia, Curitiba, Brazil; <sup>4</sup>UFSC, Fortaleza, Dpt de Fisiologia e Farmacologia, Brasil; <sup>5</sup>UFDPPar Parnaíba, PPG em Biotecnologia, Brazil; <sup>6</sup>UFR, Rondonópolis, Brazil

#### **Postdoctorate/Pos-Doc**

*Vanessa Andreatta de Quadros*

**09.023 Effects of Chlorogenic and 3,5-Dicaffeoylquinic acids on the Proliferation and Differentiation of C2C12 Myoblasts.** Quadros VA<sup>1,2,3</sup>, da Silveira<sup>1,4</sup>, Purgatto E<sup>2,3</sup>, Moreira V<sup>1</sup>. <sup>1</sup>Unifesp, Dept of Pharmacology, Brazil; <sup>2</sup>FCF-USP Dept of Food and Experimental Nutrition; <sup>3</sup>FoRC-USP, Food Research Center, São Paulo, Brazil; <sup>4</sup>Associated Lab. for Sustainability and Technology in Mountain Region, Portuga

## **10. Cancer Pharmacology**

#### **IC/Undergraduate Student**

*Maria Clara Andrade do Nascimento*

**10.003 Effects of Proteolytic Fraction on Alt Levels and Hematological Profile in Two Murine Colorectal Cancer Models.** Nascimento MCA<sup>1,3</sup>; Batista CL<sup>2,3</sup>; Cavalcante KDM<sup>1,3</sup>; Paixão MS<sup>3</sup>; Melo AAS<sup>1,3</sup>; Silva IS<sup>2,3</sup>; Lopes MTP<sup>4</sup>, Dittz D<sup>2,3</sup> <sup>1</sup>UFPI Biology Dept., <sup>2</sup>UFPI, PPG Pharmacology; <sup>3</sup>UFPI, Cancerology Lab., <sup>4</sup>UFMG, Pharmacology Dept

#### **MSc Student**

*Lara Priscila Freitas Ferreira*

**10.013 Antioxidant Effect of Ascorbic Acid and its Cytotoxic Activity on Murine Breast Adenocarcinoma Cells.** Ferreira LPF<sup>1,2</sup>, Silva ACA<sup>2,3</sup>, Santos BLB<sup>3,4</sup>, LEAL BS<sup>1,2</sup>, Cavalcante KDM<sup>1</sup>, Nascimento MCA<sup>1</sup>, Menezes DP<sup>1,3</sup>, Silva MTBS<sup>2,3,4</sup>, Dittz D<sup>1,2</sup> <sup>1</sup>UFPI Lab. of Experimental Cancerology, Brazil; <sup>2</sup>UFPI PPG Pharmacology, Brazil; <sup>3</sup>UFPI PPG Pharmaceutical Sciences, Brazil; <sup>4</sup>UFPI Lab. of Physiology, Brazil



#### PhD student

*Rafael Sampaio Pimentel*

**10.014 Implication of Neuroinflammation Triggered by the Tumor Microenvironment in the Progression of Glioblastoma.** Pimentel RS<sup>1</sup>, Nóbrega AHL<sup>1</sup>, De Sá Coutinho D<sup>1</sup>, Santos, ARC<sup>2</sup>, Martins MA<sup>1</sup>, Frozza RL<sup>2</sup>, Bernardi A<sup>1</sup> <sup>1</sup>IOC-FIOCRUZ, Lab. of Inflammation, Rio de Janeiro, Brazil; <sup>2</sup>IOC-FIOCRUZ Lab. on Thymus Research, Oswaldo Cruz Institute, FIOCRUZ, Rio de Janeiro, Brazil

## 11. Clinical Pharmacology, Pharmacokinetics, Pharmacogenomics and Toxicology

#### IC/Undergraduate Student

*Victor Emanuel Guimaraes da Silva*

**11.018 A Phase-4 Cohort Study in Healthcare Workers Following COVID-19 Vaccination at the University of Brasília Hospital: Population Profile and Longitudinal Humoral Response.** Silva VEG<sup>1</sup>, Silva VEG<sup>1</sup>, Oliveira HR<sup>1</sup>, Silva DLM<sup>2,3</sup>, Duarte, DB<sup>4</sup>. <sup>1</sup>UnB Brasília, Lab. of Pharmacological Assays, Dpt. of Pharmacy, Brazil; <sup>2</sup>HUB-UnB, Brazil; <sup>3</sup>UnB Brasília, PPG in Public Health, Brazil <sup>4</sup>UnB, PPG in Tropical Medicine, Brasília, Brazil

#### MSc Student

*Laura Ben Olivo*

**11.024 Model-Informed Precision Dosing for Tacrolimus to Improve Graft-Host-Disease Prevention in Brazilian Patients.** Olivo LB<sup>1</sup>, Olivo LB<sup>1</sup>, Pinhatti AV<sup>2</sup>, Wermann S<sup>1</sup>, Porto GO<sup>1</sup>, Dias BB<sup>1</sup>, Zuckermann J<sup>2</sup>, Daudt LE<sup>3</sup>, Araújo BV<sup>1</sup> <sup>1</sup>UFRGS, Pharmaceutical Sciences Graduate Program; Porto Alegre; Brazil <sup>2</sup>HCPA-UFRGS, Pharmacy Service, Porto Alegre, Brazil <sup>3</sup>HCPA-UFRGS, Hematology Service, Porto Alegre, Brazil

## 12. Drug Discovery and Development

#### IC/Undergraduate Student

*Ellen Schavarski Chade*

**12.004 Ketoconazole Cocrystal as an Alternative to Improve the Solubility and Antifungal Activity.** Chade ES<sup>2</sup>, Chade ES<sup>2</sup>, Goes AKS<sup>1</sup>, Brancalione RC<sup>2</sup>, Bernardi LS<sup>2</sup>, Zela SJ<sup>1</sup>, Murakami FS<sup>3</sup>, Oliveira PR<sup>1,2</sup> <sup>1</sup>Unicentro, PPG Pharmaceutical Sciences, Guarapuava, Brazil; <sup>2</sup>Unicentro, Dpt of Pharmacy, Guarapuava, Brazil; <sup>3</sup>UFPR, PPG Pharmaceutical Sciences, Curitiba, Brazil

#### MSc Student

*Rodrigo dos Anjos Miguel*

**12.007 Encapsulation of Seriniquinone into PLGA Nanoparticles Improves its Solubility and Prolongs its Release.** Miguel RA<sup>1</sup>, Miguel RA<sup>1</sup>, Hirata AS<sup>1</sup>, Martins TS<sup>2</sup>, Lopes LB<sup>1</sup>, Costa-Lotuf LV<sup>1</sup>. <sup>1</sup>ICB-USP, Dpt of Pharmacology, Brazil; <sup>2</sup>Unifesp-Diadema, Dpt of Chemistry, Brazil

## 14. Pharmacology: Other

#### MSc Student

*Rosana Lopes Rodrigues Amon*

**14.003 Irradiated Mesenchymal Stem Cells: Influence of the Bystander Effect on Hematopoiesis Controls.** Amon RLR, Almeida B, Pedro AN, Makiyama EN, Fock RA FCF-USP, PPG Pharmacy, São Paulo, Brazil

*Gabriela Sandri*

**14.004 Use of Konjac Glucomannan-Enriched Gummy Candy on Biochemical, Oxidative Parameters, Appetite Reduction, and Anthropometric Measurements in Overweight Women.**

Sandri G<sup>1</sup>, Fernandes ACS<sup>1</sup>, Muxfeld L<sup>2</sup>, Motta NG<sup>1</sup>, Skonieski C<sup>3</sup>, Fagundes KR<sup>1</sup>, Chaves DB<sup>1</sup>, Suthovski G<sup>1</sup>, Gallina AL<sup>4</sup>, Borstmann SMA<sup>1</sup>, Martini MC<sup>1</sup>, Wagner TCL<sup>1</sup>, Benvegnú DM<sup>1</sup> <sup>1</sup>UFFS - Campus Realeza/PR - PPG em Saúde, Bem-Estar e Produção Animal Sustentável na Fronteira Sul <sup>2</sup>Unioeste, UEM. PPG em Ciência de Alimentos <sup>3</sup>UFSM, <sup>4</sup>Unioeste-Campus Guarapuava

**PhD student**

*Helber da Maia Valença*

**14.014 Modulation of in vivo Adiposity and in vitro Adipogenesis Via Nrf2/Keap1 Pharmacological Signaling.** Valença HM, Moraes JA, Valença SS ICB-UFRJ, Rio de Janeiro, Brazil

**Postdoctorate/Pos-Doc**

*Regina Gomes Daré*

**14.005 Development and Evaluation of Nanostructured Lipid Carriers for co-delivery of Simvastatin and Adenosine for the treatment of Difficult-to-Heal Cutaneous Ulcers** Daré RG<sup>1</sup>, Lopes LB<sup>1</sup>. <sup>1</sup> USP São Paulo, Dpt of Pharmacology, Brazil