



54th Brazilian Congress of Pharmacology and Experimental Therapeutics

Targeting cell metabolism in aging and disease

OCTOBER
18 to 21
2022



MELHORES PAINÉIS 2022

01. Cellular and Molecular Pharmacology

Undergraduate Student

Raquel Campitelli

01.001 Endothelium-Dopamine is a Major Vascular Mediator. Campitelli R1, Britto-Júnior J1, Souza VB1, Schenka AA1, Mónica FZ1, Antunes E1, De Nucci G1,2,3 1FCM-Unicamp, Dept Pharmacology, Campinas, Brazil, 2ICB-USP, Dept of Pharmacology, São Paulo, Brazil. 3Univ Brasil, Fernandópolis, Brazil

PhD Student

Nathália Ferreira de Oliveira

01.010 Endothelial P2Y2 Receptors Signaling in Primed Cells Contribute to Leukocyte Adhesion during Chronic Inflammation. Oliveira NF1, Tamura AS2, Mainieri NS1, Savio LEB2, Coutinho-Silva R2, Silva CLM1 1ICB-UFRJ, 2IBCCF-UFRJ, Rio de Janeiro Brazil

02. Neuropharmacology

Undergraduate Student

Thais Fernanda Dalferth

02.002 Involvement of Medial Prefrontal Cortex Canonical Wnt/ β -catenin and Non-Canonical Wnt/ Ca^{2+} Signaling Pathways in Contextual Fear Memory in Male Rats. Dalferth TF1, Narvaes RF1, 2, Nachtigall EG1, Marcondes LA1, 3, Izquierdo I4, Myskiw JC3, Furini CRG1 1PUCRS, Lab of Cognition and Memory Neurobiology, Brain Institute of Rio Grande do Sul, Porto Alegre, Brazil, 2UFRGS, Porto Alegre, Brazil, 3Tufts University, Boston, USA, 4PUCRS, Memory Center, Brain Institute of Rio Grande do Sul, Porto Alegre, Brazil

MSc Student

Tamirez Petrucci

02.005 Selective CD36 Receptor Ablation in Olfactory Sensory Neurons Impacts Gene Expression in the Olfactory Epithelium. Petrucci TVB1, Pinheiro ES1, Gonçalves GA1, Malnic B2, Febbraio M3, Festuccia WTL2, Glezer I1, 1Unifesp, Dpt of Biochemistry, São Paulo, Brazil, 2USP, Dpt of Biochemistry and Biophysics, São Paulo, Brazil 3University of Alberta, Dpt of Dentistry, Alberta, Canada

PhD Student

Eduarda Medeiros

02.010 Involvement of Neuroinflammation in the Effect of Vitamin D and Donepezil in Adult and Aged Ovariectomized Rats. Medeiros EB, Gabriel JRM, Santos MLC, Lídio AV, Boaventura A, Ceolin de Jesus L, Santos LM, Bobinski F, Budni J Unesc

03. Psychopharmacology

Undergraduate Student

Elisa Piton

03.001 Lower Antidepressant Response to Fluoxetine is Associated with Anxiety-Like Behavior, Hippocampal Oxidative imbalance, and increase on Peripheral IL-17 and IFN- γ Levels. Piton E1, Pereira GC2, Santos BM2, Bochi GV2,3 1UFMS, Graduating in Pharmacy, Santa Maria, Brazil,

2UFMS, PPG Pharmacology, Santa Maria, Brazil, 2,3UFMS, Dpt of Physiology and Pharmacology, Santa Maria, Brazil

PhD Student

Ana Maria Raymundi

03.009 Glutamatergic Signaling within the Dorsal Hippocampus Modulates the Effects of Delta-9 Tetrahydrocannabinol in Fear Memory Labilization and Reconsolidation. Raymundi AM, Sohn JMB, Salemme BW, Stern CAJ UFPR, UFPR, Dpt of Pharmacology, Curitiba, Brazil

04. Inflammation and Immunopharmacology

Undergraduate Student

Cecília Pena Macário Condack

04.004 Inhibition of Myeloperoxidase Chlorinating Activity by Propolis Samples from Rio das Ostras-RJ, Brazil. Condack CPM, Silva LL, Raimundo JM, Barth T, Muzitano MF, Teixeira FM, Nascimento JCM UFRJ-Macaé, Integrated Laboratory of Research in Bioactive Products, Macaé, Brazil

MSc Student

Edvaldo Souza Lara

04.009 Study of the Annexin A1/FPR2 Pathway in the Context of Experimental Bacterial Pneumonia. Lara ES^{1,2}, Carvalho AFS^{1,2}, Montuori-Andrade ACM¹, Cardoso C¹, Zaidan I¹, Grossi L¹, Teixeira MM³, Costa VV³, Tavares LP⁴, Sousa LP^{1,2,3} 1FF-UFMG, Signaling in Inflammation Laboratory, Dpto Análises Clínicas e Toxicológicas, 2FF-UFMG, PPG Análises Clínicas e Toxicológicas, 3ICB-UFMG, Centro de Pesquisa e Desenvolvimento de Fármacos, Depto de Bioquímica e Imunologia, 4Brigham and Women's Hospital and Harvard Medical School, Pulmonary and Critical Care Medicine Division, Dept of Medicine

MSc Student

Laís Grossi

04.011 GILZ Modulates the Recruitment of Mononuclear Cells Endowed with a Resolving Phenotype and Plays a Relevant Role During Escherichia coli Infection. Grossi L¹, Zaidan I¹, Souza JAM¹, Matoso AC¹, Carvalho AFS¹, Cardoso C¹, Morand EF², Riccardi C³, Bruscoli E³, Teixeira MM⁴, Tavares LP⁵, Vago JP⁶, Sousa LP¹ 1FF-UFMG, Lab of Inflammation and Neoplasms Signaling, Dept of Clinical and Toxicological Analysis, Brazil, 2Monash University, Rheumatology Group, Centre for Inflammatory Diseases, School of Clinical Sciences at Monash Health, Melbourne, Australia, 3University of Perugia, Dept of Medicine and Surgery, Section of Pharmacology, Perugia, Italy, 4ICB-UFMG, Drug Research and Development Center, Dept of Biochemistry and Immunology, Brazil, 5Brigham and Women's Hospital and Harvard Medical School Dept of Medicine, 6Radboud University Medical Center Dept of Rheumatology, Radboud Institute for Molecular Life Sciences, Nijmegen, The Netherlands

PhD Student

Matheus Medeiros

04.014 Metformin Reverses the Pro-Inflammatory Effects and Oxidative Stress Markers of Methylglyoxal in Ovalbumin-Induced Mouse Airway Inflammation. Medeiros ML, Oliveira AL, Antunes E FCM-Unicamp, Dept Pharmacology, Campinas, Brazil

PhD Student

Isabella Zaidan

04.022 Angiotensin-(1-7)/MasR Axis Promotes Migration of Monocytes/Macrophages with a Regulatory Phenotype to Perform Phagocytosis and Efferocytosis. Zaidan I1, Tavares LP2, Sugimoto MA3, Lima KM1, Negreiros-Lima GL1, Teixeira LCR1, Miranda, TC1, Valiate, BVS2, Cramer A1, Vago JP4, Campolina-Silva G1, Souza JAM1, Grossi LC1, Pinho V1, Campagnole-Santos MJ1, Santos, RAS1, Teixeira MM1, Sousa LP 1UFMG, 2Harvard Medical School – Pulmonary and Critical Care Medicine, 3University College London, 4Radboud University Medical Center

Postdoctorate/Pos-Doc

Tatiana Paula Teixeira Ferreira

04.027 Development of a Murine Model to Study the SARS-CoV-2 Spike Protein S1 Subunit-Induced Inflammation and Endocrine Dysfunctions in K18-hACE2 Transgenic Mice. Ferreira TPT, Brasiel PG, Chaves AS, Cotias AC, Arantes ACS, Martins PMRS, Carvalho VF, Martins MA Fiocruz

05. Pain and Nociception Pharmacology

Undergraduate Student

Maria Claudia dos S. Bittencourt

05.003 Nonclinical Investigation of the Analgesic Efficacy of Topical Acid Dibucaine in a Mice Model of Painful HIV-Sensory Neuropathy. Bittencourt MCS1, Schran RG2, Silva AM2, Ferreira MA2, Ferreira2 J 1UFSC, Undergraduate student in Pharmacy, Florianópolis, Brazil, 2UFSC, PPG Pharmacology, Florianópolis, Brazil

PhD Student

Patrícia Rodrigues

05.013 Advanced Oxidation Protein Products (AOPPs) Role on Nociceptive Behavior in a Mice Model of Progressive Experimental Autoimmune Encephalomyelitis (P-EAE). Rodrigues P1, Vieiro FT1, Peres DS1, Frare JM1, Stein CS2, Brum ES3, Moresco RN2, Oliveira SM3, Bochi G, Santos GT1,3 1UFSC, PPG Pharmacology, Santa Maria, Brazil, 2UFSC, PPG in Pharmaceutical Sciences, Santa Maria, Brazil, 3Graduated Program in Biological Sciences, Toxicological Biochemistry, Santa Maria, Brazil

PhD Student

Jorge Luiz Dallazen

05.015 Can 6-Nitrodopamine (6-ND) be the Mediating Mechanism Involved in Pain Relief by Antidepressant Drugs? Dallazen JL1, Santos LG1, Britto-Júnior J2, Campos R3,4, Muscará MN1, Antunes E2, De Nucci G1,2, Costa SKP1 1ICB-USP, Dept of Pharmacology, São Paulo, Brazil, 2FCM-Unicamp, Dpt of Pharmacology, Campinas, Brazil 3UFSC, Drug Research and Development Center, Clinical Pharmacology Unit, Fortaleza, Brazil, 4ISCB-UECE, Fortaleza, Brazil

06. Cardiovascular and Renal Pharmacology

Undergraduate Student

Gustavo Pinho dos Santos

06.006 Cardiovascular Effects of Alpinia zerumbet Leaves Extract in Spontaneously Hypertensive Rats. Santos GP, Menezes MP, Oliveira BC, Cavalheira MA, Silva DLB, Bem GF, Costa CA, Resende, AC, Ognibene DT IB-UERJ, Dept of Pharmacology, Rio de Janeiro, Brazil

MSc Student

Beatriz Quaresemin Gomes

06.013 Antioxidant Treatment with Resveratrol during Gestational and Lactation Phase Reduces MMP-2 Activity and Arterial Hypertension in Adult Offspring. Gomes BQ, Rocha EV, Blascke de Mello MM, Assis VO, Pernomian L, Castro MM. FMRP-USP, Dept of Pharmacology, Ribeirão Preto, Brazil

PhD Student

Maria Luiza Santos da Silva

06.015 Impact on Stomach pH of Sodium Nitrite on Gestational Hypertension Caused by the Reduced of Uteroplacental Perfusion Pressure Model in Rats. Silva MLS, Martins LZ, Rodrigues SD, Dias-Junior CA IBB-Unesp-Botucatu, Dpt of Pharmacology, Botucatu, Brazil

PhD Student

Kawane Fabricio Moura

06.018 The Role of Renin Angiotensin System and Reactive Oxygen Species in Aortic Endothelial Dysfunction caused by Childhood Obesity in Female Rats. Moura KF, Jezuino JS, Boese CM, Gonçalves CO, Uchoa ET, Ceravolo GS UEL

07. Endocrine, Reproductive and Urinary Pharmacology

Undergraduate Student

Melissa Garcia

07.005 Targeting NOX2 Ameliorates Cyclophosphamide-Induced Bladder Injury Via Attenuation of Urothelial Barrier Dysfunction. Garcia MO1,2, Piccoli BS1,2, Passos GR2, Monica FZ2, Antunes E2, Oliveira MG2 1PUCamp, Campinas, Brazil, 2FCM-Unicamp, Dept of Translation Medicine (Pharmacology area), Campinas, Brazil

MSc Student

Erick de Toledo Gomes

07.008 The Non-Selective Inhibitors for the Multidrug Resistance Proteins, MK571 and Probenecid Potentiated the Relaxation Induced by cAMP- and cGMP-Increasing Substances in Isolated Bladder from Healthy Pig. Gomes ET, Passos GR, Britto-Junior J, Antunes E, Mónica FZ Unicamp, Dpt of Pharmacology, Campinas, Brazil

PhD Student

Larissa Gonzaga Santos Kiataki

07.014 The Impact of Gender Differences on the Anti-Inflammatory and Analgesic Effects of Hydrogen Sulfide in a Model of Interstitial Cystitis/Bladder Pain Syndrome (IC/BPS). Kiataki LGS1, Teixeira SA1, Oliveira MG2, Dallazen JL1, Oliveira JP1, Whiteman M3, Muscará MN1, Mónica FZ2, Antunes E2, Costa SKP1 1USP, Dpt of Pharmacology, São Paulo Brazil, 2Unicamp, Dept of Pharmacology, Brazil 3University of Exeter, England

08. Respiratory and Gastrointestinal Pharmacology

Undergraduate Student

Brena Freire

08.003 Food Supplementation with Spirulina platensis Prevents Damage to Ileal Contractile Reactivity by Modulating NO and COX Pathways in Rats Fed a Hypercaloric Diet. Freire B, Diniz AFA, Francelino DMC, Barros BC, Lacerda Júnior FF, Souza PPS, Ferreira PB, Silva BA UFPB

Undergraduate Student

Juliana França

08.005 Antidiarrheal Activity and Effects on Gastrointestinal Motility of Carveol in animal models.

França JS1, Pessôa MLS, Alves VP1, Pessôa MLS², Alves Júnior EB2, Araruna MEC2, Pessoa MMB2, Batista LM2 ¹UFPB, Graduate Student in Pharmaceutical Sciences, João Pessoa, Brazil, ²UFPB, PPG in Natural and Synthetic Bioactive Products, Health Sciences Center, João Pessoa, Brazil

MSc Student

Naiara Ayako Satori

08.009 Impact of Cyclic AMP Efflux Induced by Phosphodiesterase Inhibitors and β 2

Adrenoceptor Agonists on Airway Smooth Muscle Relaxation. Satori NA, Pacini ESA, Godinho RO Unifesp-EPM, Div of Cellular Pharmacology, Dept of Pharmacology, São Paulo, Brazil

09. Natural Products and Toxinology

Undergraduate Student

Mariana Conceição

09.006 Histological and Immunohistochemical Analysis of Skin Wound Healing Influenced by the

Topical Application of Brazilian Red Propolis Hydroalcoholic Extract. Conceição M1, Gushiken LFS3, Aldana-Mejía JA2, Tanimoto MH2, Ferreira MVS1, Miyashita MN1, Bastos JK2, Beserra FP1,2, Pellizzon CH1 ¹IBB-Unesp, Botucatu, São Paulo, Brazil, ²FCFRP-USP, Ribeirão Preto, Brazil, ³Unicamp, Campinas, Brazil

Undergraduate Student

Jayne Muniz Fernandes

09.007 Characterization of the Tocolytic Mechanism of Action of the Ethanolic Extract of *Varronia*

***dardani* (Taroda) J.S. Leaves in Rats.** Fernandes JM, Figueiredo IAD, Ferreira SRD, Pessoa RF, Veloso CAG, Costa VCO, Silva MS, Cavalcante FA UFPB

MSc Student

Antônio Raphael L. de F. Cavalcanti Silva

09.013 In vitro and In Silico Studies of the Vasorelaxant Mechanism of Action of Synthetic Amide

(E)-N-(4-Methoxyphenethyl)-3-(Thiophen-2-yl)Acrylamide in Rat Aorta. Cavalcanti-Silva ARLF, Pessoa RF, Moura TMCF, Fernandes JM, Figueiredo IAD, Ferreira SRD, Sousa NF, Scotti L, Silva LAA, Rodrigues LC, Cavalcante FA UFPB

PhD Student

Felipe Leonardo Fagundes

09.020 Investigation of Proliferative Potential of Monoterpene Citral in Lineage of Intestinal Cells

Caco-2. Fagundes FL1, Zarricueta ML1, Caxali GH2, Aal MCE2, Delella FK2, Hiruma-Lima CA1 ¹Unesp-Botucatu, Lab of Biological Assays with Natural Products, Dept of Structural and Functional Biology, Sector of Physiology, ²Unesp-Botucatu, Lab of Studies of Extracellular Matrix, Dept of Structural and Functional Biology, Sector of Morphology

PhD Student

Raquel Rangel Silveiras

09.025 Inhibition of the AGE/RAGE Pathway in an Experimental Model of Non-Alcoholic Fatty

Liver Disease: A Focus on Anti-Inflammatory and Antioxidant Mechanisms. Silveiras RR, Araujo BP, Lima LN, Rodrigues KL, Pereira ENGS, Silva VVD, Daliry A IOC-Fiocruz, Lab of Cardiovascular Investigation, Rio de Janeiro, Brazil

PhD Student

Renan Pereira Lima

09.031 Taraxasterol Acetate, Isolated from Eupatorium balotteifolium, Improves Glucose Uptake by Increasing Membrane GLUT4 Expression in TNF α -Induced 3T3-L1 Cells. Lima RP1, Oliveira FTB2, Freire GP2, Portela BYM1, Nunes PIG2, Albuquerque MRJR3, Pessoa ODL3, Santos FA1 ¹UFC, PPG Pharmacology, Fortaleza, Brazil, ²UFC, PPG Medical Science, Fortaleza, Brazil; ³UFC, PPG Chemistry, Fortaleza, Brasil

10. Cancer Pharmacology

Undergraduate Student

Everlaine Leite

10.002 The Aqueous Extract Obtained from Abelmoschus esculentus (L.) Moench. has an Antitumor Effect in the Ascitic Ehrlich Tumor Model (EAC). Silva ELES, Souza TPM1, Carmo JOS1,, Almeida JH1, Silva JYR2, Alves Júnior S2, Ferro JNS1 ¹UFAL, ²UFPE

MSc Student

Kauê Oliveira

10.006 Evaluation of the Antineoplastic Effects of Polysaccharides Extracted from Tucum-do-Cerrado Fruits (Bactris setosa Mart) in Mice. Oliveira KM, Radulski DR, Faria BC, Galindo CM, Pereira GS, Stipp MC, Cordeiro LMC, Acco A UFPR, Department of Pharmacology, Curitiba, Brazil

PhD Student

Marina Delgobo

10.012 NRF2 Pathway Activation and Tumor Recurrence Correlate with Thioredoxin Reductase-1 up-Regulation in Non-Small Cell Lung Cancer. Delgobo M1, Gonçalves RM1, Delazeri MA2, Falchetti M1, Zandoná S2, Neves RN1, Almeida K1, Fagundes AC1, Gelain DP3, Fracasso JI2, Macêdo GB2, Priori L2, Forcelini CM2, Moreira JCF3, Zanotto-Filho A1 ¹UFSC, Dpt of Pharmacology, Florianópolis, Brazil. ²UPF, Dpt of Medicine, Passo Fundo, Brazil. ³UFRGS, Dpt of Biochemistry, Porto Alegre, Brazil

MSc Student

Laura Bem Olivo

11.003 Population Pharmacokinetics of Intravenous Busulfan in Brazilian Pediatric Patients. Olivo LB1, Zuckermann J3, Pinhati AV2,3, Correa GG2, Daudt LE4, Dalla Costa TCT1, Araújo BV1,2 ¹UFRGS, PPG Pharmaceutical Sciences; Porto Alegre; Brazil, ²UFRGS, PPG Medical Sciences, Porto Alegre, Brazil, ³HCPA-UFRGS, Pharmacy Service, Porto Alegre, Brazil, ⁴HCPA-UFRGS, Hematology Service, Porto Alegre, Brazil

PhD Student

Graziela de Araújo Lock

11.005 Are Ciprofloxacin Plasma Concentrations Influenced by Different Gram-Negative Bacteria Infection? Lock GA1, Dias BB1, Helfer VE1, Barreto F2, Araújo BV1,, Dalla Costa T1 ¹UFRGS, PPG Pharmaceutical Sciences, Pharmacokinetics and PK/PD Modeling Lab, ²LFDA-RS

14. Pharmacology: Other

Undergraduate Student

Camila Megumi Hirokawa

14.001 Development and Evaluation of the Bioadhesive Properties of Chitosan and Hyaluronic Acid Polyelectrolyte Nanoparticles. Hirokawa CM1,2, Passos JS2, Lopes LB2 ICB-USP, Dpt of Pharmacology, São Paulo, Brazil 1FCF-USP, São Paulo, Brazil, 2 ICB-USP, Dpt of Pharmacology, São Paulo, Brazil

Petruska Pessoa

14.004 Pathophysiological Mechanism of Primary Dysmenorrhea involves Enlargement of the Uterine Myometrium and Oxidative Stress. Souza PPS, Lacerda Júnior FF, Barros BC, Almeida Filho EJB, Ferreira PB, Silva AS, Silva BA UFPB

MSc Student

Lucas Hassib

14.006 Maternal Microbiota or Early Life Microbiota Dysbiosis Induces Neurodevelopmental and Behavioral Impairments Associated with Psychiatric Disorders. Hassib L1, Campos AC2, Ferreira FR3, 1FMRP-USP, Dept of Mental Health, Ribeirão Preto, Brazil; 2FMRP-USP, Dept of Pharmacology, Ribeirão Preto, Brazil, 2Fiocruz