



53<sup>rd</sup> Brazilian Congress  
of Pharmacology and  
Experimental Therapeutics

Pharmacology connecting Islands:  
Post-Pandemic challenges and opportunities

November 16-19, 2021



## MELHORES PAINÉIS 2021

### 01. Cellular and Molecular Pharmacology

Undergraduate Student

*Isabelly Leticia Mariano Santos da Silva*

**01.001 Vascular reactivity, angiotensin receptor and intracellular signaling in *Oxyrhopus guibei* (false coral snake), and *Crotalus durissis terrificus* (rattlesnake).** da Silva ILMS, Marinho JL, Breno MC Butantan Inst

Graduate Student (Master/Doctoral)

*Victória Gabriela Bello dos Santos*

**01.005 Acetylcholine alpha 7 nicotinic receptors in microglia: association of their microglial activity with increased intracellular calcium.** Bello dos Santos VG, Gonçalves de Castro N. ICB-UFRJ

*Noemia Aparecida Partelli Mariani*

**01.015 Binding of the seminal plasma protein SVS2 to EPPIN: implications to sperm function.** Mariani NAP, Santos NCM, Santos GVM, Camargo IA, Kushima H, Silva EJR. PPG Pharmacology and Biotechnology, Dpt of Biophysics and Pharmacology, Inst of Biosciences, São Paulo State Univ, Botucatu, Brazil

PhD

*Fabiana Sélos Guerra*

**01.018 HDAC6/8 inhibitor, LASSBio 1911: a new alternative to sensitize prostate cancer cells to anticancer agents** Guerra FS<sup>1</sup>, Rodrigues DA<sup>2</sup>, Manssour Fraga CA<sup>2</sup>, Dias Fernandes P<sup>1</sup> 1Univ Federal do Rio de Janeiro, Inst de Ciências Biomédicas: <sup>1</sup>Lab de Farmacologia da Dor e da Inflamação e <sup>2</sup>Lab de Avaliação e Síntese de Substâncias Bioativas (LASSBio). Rio de Janeiro, Brasil

### 02. Neuropharmacology

Undergraduate Student

*Pamela Ojuorun Santos Medeiros*

**02.002 Respiratory anatomofunctional changes following apocynin treatment in a Parkinson's disease model.** Medeiros POS, Nascimento ALF, Pedrão LFAT, Oliveira LM, Takakura AC, Falquetto B. USP Inst of Biomedical Science, Dpt of Pharmacology, Brazil

Graduate Student (Master/Doctoral)

*Yane Costa Chaves*

**02.010 Cannabidiol induces distinct changes on fear memory and emotional processes that are dependent on the type of treatment: a preclinical approach in a model of type-1 diabetes mellitus.** Chaves YC, Raymundi AM, Waltrick APF, Stern CAJ, Zanoveli JM. Dpt of Pharmacology, Federal Univ of Paraná, Curitiba, Parana, Brazil

*Camila Pires Machado da Silva*

**02.013 Uliginoin B interacts with the purinergic system.** Silva CPM<sup>1</sup>, Andrejew R<sup>2</sup>, Marangon CG<sup>1</sup>, VON Poser GL<sup>1</sup>, Batattini AMO<sup>2</sup>, Fraga CAM<sup>3</sup>, Rates SMK<sup>1</sup>. 1UFRGS Porto Alegre, PPG Pharmaceutical Sciences, Brazil; UFRGS Porto Alegre, Dpt of Biochemistry, Brazil; 2UFRJ Rio de Janeiro, LASSBIO, Brazil



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*Kairo Alan Albernaz Mariano*

**02.027 Mineralocorticoid modulation in the infralimbic subregion of the medial prefrontal cortex (IL-mPFC) prevents the stress-induced impairment of aversive memory extinction.**

Albernaz-Mariano, KA, Munhoz, CD USP-São Paulo, Dpt. de Farmacologia-ICB, PPG em Farmacologia, Brazil

### 03. Psychopharmacology

Undergraduate Student

*Laura Colete Cunha*

**03.002 Toll-like receptor 4 (TLR4) knockout mice do not develop depressive-like behavior after repeated restraint stress but have worse anxiety behavior.**

Cunha LC<sup>1</sup>, Lisboa SFS<sup>2</sup>. <sup>1</sup>Ribeirão Preto Medical School; <sup>2</sup>School of Pharmaceutical Sciences of Ribeirão Preto, Univ of São Paulo, USP

Graduate Student (Master/Doctoral)

*Julia Grigorini Mori Ayub*

**03.007 S-Ketamine effects on female mice tested in the Marble Burying Test.** Ayub JGM, Tosta CL, Beijamini V. UFES Vitória, PPG Pharmaceutical Sciences, Health Sciences Centre, Brazil

*Karla Cristinne Mancini Costa*

**03.022 Zebrafish exposure to valproic acid as a translational platform for Autism Spectrum Disorders research and drug discovery.**

Costa KCM<sup>1</sup>, Brigante TAV<sup>1</sup>, Fernandes GG<sup>1</sup>, Ferreira RR<sup>1</sup>, Scomparin DS<sup>1</sup>, Scarante FF<sup>1</sup>, Pires-dos-Santos I<sup>1</sup>, Oliveira DP<sup>2</sup>, Campos AC<sup>1</sup>. <sup>1</sup>FMRP-USP, Dpt of Pharmacology, Ribeirão Preto, Brazil; <sup>2</sup>FCFRP-USP, Dpt of Clinical, Toxicological and Bromatological Analysis, Ribeirão Preto, Brazil

PhD

*Leonardo Santana Novaes*

**03.023 Glucocorticoid and noradrenaline signaling in the stress-induced dendritic remodeling in the amygdala and anxiety-like behavior in rats.**

Novaes LS<sup>1</sup>, Bueno-de Camargo LM<sup>1</sup>, Almeida, AS<sup>1</sup>, dos Santos, NB<sup>1</sup>, Goosens KA<sup>2</sup>, Munhoz CD<sup>1</sup>. <sup>1</sup>Dpt of Pharmacology, São Paulo. <sup>2</sup>Dpt of Psychiatry, Icahn School of Medicine at Mount Sinai, New York

### 04. Inflammation and Immunopharmacology

Undergraduate Student

*Giovanna Araujo de Souza*

**04.002 Effects of  $\alpha$ -Klotho protein in TNF- $\alpha$  signaling through TNFR1 in mice.** Araujo de Souza G, Scavone C, Kinoshita PF. USP São Paulo, Dpt of Pharmacology, Brazil

Graduate Student (Master/Doctoral)

*Marcella Dutra de Almeida*

**04.011 Role of TLR-4 in a model of COPD exacerbation induced by H1N1 virus infection**

Almeida MD<sup>1</sup>, Ferrero MR<sup>1</sup>, Garcia CC<sup>2</sup>, Martins MA<sup>1</sup>. <sup>1</sup>Lab of Inflammation, Oswaldo Cruz Inst, Fiocruz, Rio de Janeiro, Brazil; <sup>2</sup>Lab of respiratory virus and Measles, Oswaldo Cruz Inst, Fiocruz, Rio de Janeiro, Brazil

*João Pedro Torres Guimarães*

**04.013 Role of RAS in glucose metabolism and autophagy in metabolically active tissues from type 1 diabetic and obese mice.** Guimarães JPT<sup>1,2,3</sup>, Menikdiwela KR<sup>2</sup>, Ramalho T<sup>3</sup>, Queiroz LAD<sup>1</sup>,



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Kalupahana NS<sup>2</sup>, 4, Jancar S<sup>3</sup>, Ramalingam L<sup>2</sup>, Moustaid-Moussa N<sup>2</sup>, Martins JO<sup>1</sup>. <sup>1</sup>Lab of Immunoendocrinology, Dpt of Clinical and Toxicological Analyses. School of Pharmaceutical Sciences of Univ of São Paulo (FCF-USP), São Paulo, Brazil; <sup>2</sup>Lab of Nutrigenomics, Inflammation and Obesity Research, Dpt of Nutritional Sciences, Texas Tech Univ (TTU), Lubbock, Texas, USA; <sup>3</sup>Lab of Immunopharmacology, Dpt of Immunology, Inst of Biomedical Sciences, Univ of São Paulo (ICB-USP), São Paulo, Brazil; 4Dpt of Physiology, Univ of Peradeniya, Peradeniya, Sri Lanka

*Fernanda Tibolla Viero*

**04.024 Experimental Alzheimer's disease: Kinin-B2 receptor signaling in immune response and neuroinflammation in mice.** Viero FT<sup>1</sup>, Mello CF<sup>1</sup>, Pillat MM<sup>2</sup>, Ulrich H<sup>3</sup>. <sup>1</sup>Pharmacology, Federal Univ of Santa Maria, Santa Maria, Brazil; <sup>2</sup>Microbiology and Parasitology, Federal Univ of Santa Maria, Santa Maria, Brazil; Dep. of Biochemistry, Inst of Chemistry, Univ of São Paulo, Brazil

*Guilherme Cesar Martelossi Cebinelli*

**04.027 Dissecting the mechanisms involved in differential responses and outcomes of identical mice to sepsis.** Cebinelli GCM, Nascimento DCB, Damasceno LEA, Tavares AC, Donate PB, Cunha TM, Farias JC, Cunha FQ. Center for Research in Inflammatory Diseases (CRID) - Dpt of Pharmacology, Ribeirão Preto Medical School Univ of São Paulo São Paulo, Brazil

PhD

*Amanda da Costa Cotias Santana*

**04.034 Nebulized gold nanoparticles down-regulate inflammation and lung remodeling in a murine model of steroid-resistant asthma** Cotias, AC1, Serra, MF1, Pimentel, AS1, Lanzetti, M2, Hickmann, J3, Arante, ACS1; Silva, PMR1; Cordeiro, RSB1, Barreto, E4, Martins, MA1 <sup>1</sup>Lab of Inflammation, Oswaldo Cruz Inst, Fiocruz, Brazil; <sup>2</sup>Lab of Cell Biology, Federal Univ of Alagoas, Maceió, AL, Brazil; <sup>3</sup>Inst de Física, Univ Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil; <sup>4</sup>Univ Federal do Rio de Janeiro (UFRJ), Inst de Ciências Biomédicas, Rio de Janeiro, Brazil

## 05. Pain and Nociception Pharmacology

Undergraduate Student

*Igor Frederico de Oliveira Ramos*

**05.003 Evaluation of Vitex polygama extract and fractions effects on vincristine-induced peripheral neuropathic pain in mice.** Ramos IFO, Melo EDN, Santos IS, Carmo PL, Muzitano MF, Bonavita AGC. UFRJ - Campus Macaé, Bioactive Products Pharmacology Lab, Brazil

Graduate Student (Master/Doctoral)

*Queren Apuque Alcantara*

**05.007 Aldehyde dehydrogenase-2 activation alleviates neuropathic pain by controlling neuroinflammation in the spinal cord.** Alcantara QA<sup>1</sup>, Neto BS<sup>1</sup>, Mochly-Rosen D<sup>2</sup>, Cury Y<sup>1</sup>, Zambelli VO<sup>1</sup>. <sup>1</sup>Lab of Pain and Signaling, Butantan Inst, Brazil; <sup>2</sup>Chemistry and Systems Biology, Stanford Univ, USA

## 06. Cardiovascular and Renal Pharmacology

Undergraduate Student

*Lucas Braga Albino*

**06.002 Characterization of caffeine effect on cardiovascular changes induced by adenosine.** Albino LB, Oliveira JG, Fernandes D. UFSC Florianópolis, Dpt of Pharmacology, Brazil



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#### Graduate Student (Master/Doctoral)

*Nayara Carvalho Barbosa*

**06.011 Nox5 contributes to vascular hyperreactivity associated with pre-eclampsia.** Barbosa NC<sup>1</sup>, Machado MR<sup>2</sup>, Alves JV<sup>2</sup>, Oliveira Neto JT<sup>2</sup>, Silva JF<sup>2</sup>, Cavalli RC<sup>3</sup>, Passaglia RCAT<sup>2</sup>, Costa RM<sup>2</sup>. <sup>1</sup>UFJ, Jataí Academic Unit of Health Sciences, Federal Univ of Jataí, Brazil <sup>2</sup>FMRP USP Ribeirão Preto, Dpt of Pharmacology, Ribeirão Preto Medical School, Univ of São Paulo, Brazil <sup>3</sup>FMRP USP Ribeirão Preto, Dpt of Gynecology and Obstetrics, Ribeirão Preto Medical School, Univ of São Paulo, Brazil

*Dayene Santos Gomes*

**06.017 Salt-inducible Kinase (SIK): A pharmacological target of salt-sensitive hypertension.** Gomes DS<sup>1</sup>, Visniauskas B<sup>2</sup>, Prieto MC<sup>2</sup>, Lara LS<sup>1</sup> <sup>1</sup>UFRJ, Inst de Ciências Biomédicas, Programa de Pesquisa em Farmacologia e Inflamação, Brazil <sup>2</sup>Tulane Univ School of Medicine, Dpt of Physiology and Renal Hypertension Center of Excellence, USA

*Frhancielly Shirley Souza Sodré*

**06.024 BMP9 / ALK1 / BR-SMAD signaling pathway regulates cardiac remodeling of the offspring of dexamethasone-treated mothers.** Sodré FSS<sup>1</sup>, Pereira GA<sup>1</sup>, Amaral AG<sup>1</sup>, Murata GM<sup>1</sup>, Castelo-Branco RC<sup>1</sup>, Campos CV<sup>2</sup>, Almeida LS<sup>2</sup>, Teixeira CJ<sup>1</sup>, Couto GK<sup>1</sup>, Rossoni LV<sup>1</sup>, Anê GF<sup>2</sup>, Bordin S<sup>1</sup>. <sup>1</sup>Dpt of Physiology and Biophysics, Inst of Biomedical Sciences, Univ of São Paulo, São Paulo, Brazil <sup>2</sup>Dpt of Pharmacology, Faculty of Medical Sciences, State Univ of Campinas, Brazil

*Filipe Rodolfo Moreira Borges de Oliveira*

**06.035 Temporal changes of renal and hepatic protein SUMOylation in hemorrhagic shock.** Oliveira FRMB, Soares ES, Ramos HP, Cimarosti HI, Sordi R. UFSC, Dpt of Pharmacology, PPG Pharmacology

#### PhD

*Tiago J Costa*

**06.038 SARS-CoV-2-induced endothelial cell damage by mitochondrial DNA release and TLR9 activation.** Costa TJ<sup>1</sup>, Potje SR<sup>1</sup>, Fraga-Silva<sup>2</sup> TFC, Silva-Neto JA<sup>1</sup>, Barros PB<sup>1</sup>, Rodrigues D<sup>1</sup>, Machado MR<sup>1</sup>, Martins RB<sup>3</sup>, Santos-Eichler RA<sup>4</sup>, Bonato VLD<sup>2</sup>, Arruda E<sup>3</sup>, Bomfim GF<sup>5</sup>, Tostes RC<sup>1</sup>. <sup>1</sup>Dpt of Pharmacology, Ribeirão Preto Medical School, Univ of São Paulo, Brazil <sup>2</sup>Dpt of Biochemistry and Immunology, Ribeirão Preto Medical School, Univ of São Paulo, Brazil <sup>3</sup>Virology Research Center, Ribeirão Preto Medical School, Univ of São Paulo, Brazil <sup>4</sup>Dpt of Pharmacology, Inst of Biomedical Science, Univ of São Paulo, Brazil <sup>5</sup>Inst of Biological and Health Sciences, Federal Univ of Mato Grosso, Brazil

## 07. Endocrine, Reproductive and Urinary Pharmacology

#### Graduate Student (Master/Doctoral)

*Francisco Fernandes Lacerda Júnior*

**07.003 Food supplementation with *Spirulina platensis* prevents strength training-induced oxidative stress on rat uterus.** Lacerda-Júnior FF2, Ferreira PB2, Diniz AFA2, Silva, MCC2, Silva AS3, Silva, BA1,2. 1DCF-CCS-UFPB, 2PPgPNSB-CCS-UFPB, 3PAPGEF-UFPB

*Priscila Laiz Zimath*

**07.007 Are the anti-inflammatory and metabolic effects of mometasone furoate dependent on glucocorticoid receptor activation?** Zimath PL<sup>12</sup>, Almeida M<sup>2</sup>, Rafacho A<sup>12</sup>. <sup>1</sup>UFSC



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Florianópolis, PPG Pharmacology, Brazil; <sup>2</sup>UFSC Florianópolis, Lab. of Investigation of Chronic Disease, Brazil

## 08. Respiratory and Gastrointestinal Pharmacology

Undergraduate Student

*Alissa Maria de oliveira martins*

**08.003 Mechanism of action of tracheal hyper-reactivity in a model of asthma exacerbated by obesity.** Martins AMO<sup>1</sup>, Ferreira SRD<sup>2</sup>, Araújo MPA<sup>1</sup>, Figueiredo IAD<sup>2</sup>, Pessoa RF<sup>2</sup>, Cavalcante FA<sup>2,3</sup>, Vasconcelos LHC<sup>2,3</sup>, <sup>1</sup>UFPB, <sup>2</sup>UFPB - PPgPNSB, <sup>3</sup>UFPB - DFP

Graduate Student (Master/Doctoral)

*Beatriz Peres de Araujo*

**08.010 Diet-Induced Nonalcoholic Steatohepatitis (Nash) animal model for preclinical pathogenesis and therapy research.** Araujo BP, Pereira ENGDS, Martins CSM, Silveiras RR, Rodrigues KL, Flores EEI, Daliry A. Lab of Cardiovascular Investigation, Oswaldo Cruz Inst, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil

*Thiago Meneses Araújo Leite Sales*

**08.013 Role of the Pepsin in the Pulmonary Inflammatory Dysfunction induced by gastroesophageal reflux in mice.** Sales TMAL<sup>1</sup>, Sousa MKA<sup>2</sup>, Costa-Filho HB<sup>2</sup>, Gadelha KKL<sup>2</sup>, Dias-Júnior GJ<sup>2</sup>, Paula SM<sup>1</sup>, Ribeiro TA<sup>3</sup>, Lederhos QR<sup>3</sup>, Magalhães PJC<sup>2</sup>, Soares PMG<sup>2</sup>, Sifrim D<sup>4</sup>, Souza MHLP<sup>1</sup>. <sup>1</sup>UFC, Fortaleza, Dpt of Medicine, PPG Medical Sciences, Brazil; <sup>2</sup>UFC, Fortaleza, Dpt of physiology and pharmacology, PPG pharmacology, Brazil; <sup>3</sup>Estacio Univ Center of Ceará, Fortaleza, Brazil; <sup>4</sup>Queen Mary Univ of London, London, United Kingdom

PhD

*Diego de Sá Coutinho*

**08.018 Controlled release of JME-173 from nanocapsules improves lipopolysaccharide-induced lung inflammation in mice.** Coutinho DS<sup>1</sup>, Bernardi A<sup>1</sup>, Guterres SS<sup>2</sup>, Pohlmann AR<sup>3</sup>, Silva PMR<sup>1</sup>, Martins MA<sup>1</sup> <sup>1</sup>Lab of Inflammation, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil <sup>2</sup>Pharmaceutical Sciences Post-Graduation Program, Federal Univ of Rio Grande do Sul, Porto Alegre, Brazil <sup>3</sup>Dpt of Organic Chemistry, Federal Univ of Rio Grande do Sul, Porto Alegre, Brazil

## 09. Natural Products and Toxinology

Undergraduate Student

*Thayna Maria Costa Fernandes de Moura*

**09.005 Blockade of calcium channels in the vasorelaxant effect of (E)-N-(4-metoxifenetil)-3-(tiofen-2-il)acrilamid in Wistar rats.** Moura TMC<sup>1</sup>, Silva ARLFC<sup>2</sup>, Pessoa RF<sup>2</sup>, Fernandes JM<sup>1</sup>, Silva LAA<sup>3</sup>, Rodrigues LC<sup>4</sup>, Cavalcante FA<sup>2,5</sup> <sup>1</sup>PIBIC-UFPB, João Pessoa, Brazil; <sup>2</sup>PPgPNSB-UFPB João Pessoa, Brazil; <sup>3</sup>PPgDITM-UFPB João Pessoa, Brazil, <sup>4</sup>UFPB João Pessoa, Dpt of Biotechnology, Brazil, <sup>5</sup>UFPB João Pessoa, Dpt of Physiology and Pathology, Brazil

Graduate Student (Master/Doctoral)

*Paulo Iury Gomes Nunes*

**09.016 Effect of alpha,beta-amyrin, a triterpenoid mixture from Protium heptaphyllum on insulin resistance in skeletal muscle of high fat diet-induced obese mice.** Nunes PIG<sup>1</sup>, Oliveira FTB<sup>1</sup>, Lima RP<sup>2</sup>, Viana AFSC<sup>2</sup>, Silva RAC<sup>1</sup>, Freire GP<sup>1</sup>, Silva AVL<sup>2</sup>, Carvalho AA<sup>3</sup>, Chaves MH<sup>3</sup>, Santos



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FA<sup>2</sup>. <sup>1</sup>UFC Fortaleza, PPG Medical Sciences, Brazil; <sup>2</sup>UFC Fortaleza, PPG Pharmacology, Brazil;  
<sup>3</sup>UFPI Teresina, Dpt of Organic Chemistry, Brazil

## 10. Cancer Pharmacology

Undergraduate Student

*Everlaine Leite Estevam dos Santos Silva*

**10.003 Evaluation of the antineoplastic activity of pentacyclic triterpene Friedelin in mice bearing Ehrlich's ascites carcinoma.** Silva ELES, Santos DLF, Almeida JH, Souza TPM<sup>1</sup>, Silva LMP, Barreto E, Ferro JNS. Federal Univ of Alagoas (UFAL), Maceió, AL, Brazil

Graduate Student (Master/Doctoral)

*Isadora Ramos de Andrade*

**10.009 Extracellular vesicles released by adipose tissue from obese subjects can induce epithelial-mesenchymal transition in breast cancer cells.** Ramos-Andrade I<sup>1</sup>, De Jesus ME<sup>1</sup>, Moraes JA<sup>1,2</sup>, Renovato Martins M<sup>3</sup>, Barja-Fidalgo C<sup>1</sup> <sup>1</sup>UERJ Rio de Janeiro, Dpt of Cell Biology, Brazil; <sup>2</sup>UFRJ Rio de Janeiro, Dpt of Basic and Clinical Pharmacology, Brazil; <sup>3</sup>UFF Niterói, Dpt of Molecular and Cell Biology, Brazil

## 12. Drug Discovery and Development

Undergraduate Student

*Nicolas Nascimento Alecrim*

**12.005 Effect of the mimetic peptide Ac9-22 derived from Annexin A1 on skeletal muscular function after myotoxicity induced by a bothropic venom.** Alecrim NN<sup>1</sup>; Damico MV<sup>1</sup>; Icimoto MY<sup>2</sup>; Escalante T<sup>3</sup>; Moreira V<sup>1</sup> <sup>1</sup>EPM-Unifesp São Paulo, Dpt of Pharmacology, Brazil <sup>2</sup>EPM-Unifesp São Paulo, Dpt of Biophysics, Brazil <sup>3</sup>Universidad Costa Rica, Inst Clodomiro Picado, San José, Costa Rica

Graduate Student (Master/Doctoral)

*João Pedro Barros de Paiva*

**12.006 Pre-clinical evaluation of the anti-inflammatory effects of novel capsaicin-curcumin hybrid molecules.** Paiva JPB<sup>1</sup>, Carvalho PR<sup>1</sup>, Etienne R<sup>2</sup>, Viegas Júnior CV<sup>2</sup>, Fernandes P1 <sup>1</sup>Federal Univ of Rio de Janeiro, Inst of Biomedical Science, Lab of Pain and Inflammation, PPG in Pharmacology and Medicinal Chemistry. Rio de Janeiro, Brazil <sup>2</sup>Federal Univ of Alfenas, Medicinal Chemistry Research Lab. Minas Gerais, Brazil

*Giovanna Cassone Salata*

**12.010 Fenretinide-loaded microemulsions reduce cell migration, spheroid growth and breast cancer development in a chemically induced carcinogenesis model.** Salata GC, Malago ID, Costa SKP, Marçal-Pessoa AF, Lopes LB Dpt of Pharmacology, Inst of Biomedical Sciences, Univ of São Paulo

## 13. Pharmacology Education and Technology

Undergraduate Student

*Roger Henrique Carvalho Farias*

**13.002 As aventuras de Farmarquinhos: teaching through gamification.** Farias RHC, Meneses JRL, Bayerlein MJ, Lorga ACM, Antonini HK, Pereira MLL, Carlos CP, Rodrigues AC USP, Inst of Biomedical Sciences, Brazil



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## 14. Pharmacology: Other

### Undergraduate Student

*Petruska Pessoa*

**14.004 Standardization and evaluation of changes induced by primary dysmenorrhea in Wistar rats.** Souza PPS1, Lacerda-Júnior FF2 Barros BC2, Diniz AFA2, Ferreira PB2, Costa BA3 1DCF-CCS-UFPB; 2PPgPNSB-CCS-UFPB; 3DCF-UFPB

### Graduate Student (Master/Doctoral)

*Victor Oliveira Assis*

**14.006 Chronic ethanol consumption causes oxidative stress in the thymus via mineralocorticoid receptor activation.** Assis VO Dourado TMH, Tirapelli CR. EERP-USP Ribeirão Preto, Lab of Pharmacology, Brazil

*Evelyn Nunes Goulart da Silva Pereira*

**14.008 Investigation of pleiotropic effects of simvastatin in a non-alcoholic fatty liver disease model.** Pereira ENGS, Martins CSM, Araujo BP, Rodrigues KL, Silvares RR, Flores EEI and Daliry A. Lab of Cardiovascular Investigation, Oswaldo Cruz Inst, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil