






Brazilian Congress of Pharmacology and Experimental Therapeutics

Challenging frontiers in Pharmacology

September 24-27, 2019
Maceió, AL

MELHORES PAINÉIS 2019

01. Cellular and Molecular Pharmacology

Undergraduate Student

Hilda Caroline do Nascimento Santos

01.009 *In vitro* Leishmanicidal Activity of New Carbamoyl-N-Aryl-Imine-Ureas against Leishmania Major. Santos HCN¹, Silva AE¹, Silva JFM¹, Silva JKS¹, Silva KCJ¹, Araújo MV¹, Oliveira GG¹, Avelar JLS², Barreiro EJD², Lima LM², Moreira MSA¹ ¹UFAL; ²UFRJ

Jorge Luiz de Barros Torresi

01.018 Action of lysine (K) -deacetylase modulators on cell metabolism in astrocytes exposed to oxidative stress and excitotoxicity: possible neuroprotective role in Amyotrophic Lateral Sclerosis. Torresi JLB, Rosenstock TR, Dutra MB FCMSCSP

Graduate Student (Master/Doctoral)

Katiussia Pinho da Silva

01.003 Beta-blockers with moderate intrinsic sympathomimetic activity improve sepsis-induced myocardial dysfunction. Silva KP¹, Silva Júnior EDS², Baker J³, Cunha FQ⁴, Pupo AS ¹Unesp-Botucatu, ²UFRN, ³University of Nottingham, ⁴FMRP-USP

Bruna Rafaela Bezerra Gomes

01.012 Cytochrome b5 attenuates neuroinflammation in lipopolysaccharide-activated primary preoptic area cells via NFκB pathway inhibition. Gomes BRB, Sousa GLS, Ott D, Murgott J, Sousa MV, Souza PEN, Roth J, Souza FHV UnB

PhD

Diego Ângelo Duarte

01.015 Unveiling the molecular bases of AT1 receptor desensitization and tachyphylaxis. Duarte DA¹, Silva LTPEA¹, Oliveira EB¹, Bouvier M², Costa Neto CM¹USP, ²Université de Montréal

02. Neuropharmacology

Undergraduate Student

Pedro Augusto Tibúrcio Paulino

02.035 Solutol® HS 15 has anticonvulsant and neuroprotective actions in an experimental model of temporal lobe epilepsy. Paulino PAT, Arroxelas-Silva CL, Conceição-Silva GF, Santos ED, Pereira-Silva W, Castro OW, Gitai DLG UFAL

Graduate Student (Master/Doctoral)

Ana Paula Dalmagro

02.002 Antioxidant and neuroprotective effects of Plumieride in the Hippocampus and Prefrontal Cortex of mice chronically exposed to corticosterone. Dalmagro AP¹, Camargo A², Zeni ALB², Silva RML¹, Malheiros A¹, Souza MM¹ ¹Univali, ²Furb

Fernanda Maria Araujo de Souza

02.005 Pharmacological validation of a new animal model of depression in mice: A single subconvulsant dose of pilocarpine. Souza FMA¹, Neto JGS¹, Vieira MPS¹, Barros O¹, Souza GF¹, Correia WBZGB¹, Duarte FS², Lima TCM³, Duzzioni M¹ ¹UFAL, ²UFPE, ³UFSC



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03. Psychopharmacology

Graduate Student (Master/Doctoral)

Melissa Ribeiro de Araújo

03.018 Chronic treatment with venlafaxine in stressed mice up-regulates CB1 expression in the hippocampus but produces its behavioral effects in a CB1-independent manner. Araújo MR, Scarante FF, Scomparin DS, Guimarães FS, Campos AC FMRP-USP

PhD

Pedro Henrique Gobira

03.010 Treatment with synthetic cannabinoid WIN55,212-2, during adolescence, alters the susceptibility to cocaine-induced conditioned place preference. Gobira PH, Joca S FCFRP-USP

04. Inflammation and Immunopharmacology

Undergraduate Student

Luiz Felipe Lobo Mascarenhas Fratel de Araújo

04.058 Effect of the Biochanin A on inflammatory in obese ovariectomized mice. Araújo LFLMF¹, Almeida RG¹, Araújo JMD¹, Santos WM¹, Camargo EA, Neres WS¹, Félix FB² ¹UFS, ²UFMG

Graduate Student (Master/Doctoral)

Daniel de Oliveira Patricio

04.017 Role of DNA-PK complex during Zika virus infection. Patricio DO, Mansur DM UFSC

Polliane Maria Cavalcante-Araújo

04.032 Uvaol attenuates inflammatory functions of macrophages by inhibits M1-like phenotype and NF-Kb signaling. Cavalcante-Araújo PM¹, Lagente V², Barreto E¹ ¹UFAL, ²University of Rennes

Julianderson de Oliveira dos Santos Carmo

04.036 Methyl cinnamate attenuates inflammatory and pathophysiological parameters in elastase-induced emphysema in mice. Carmo JOS¹, Nascimento LMPS¹, Correia ACC², Cartaxo TN¹, Ferro JNS¹, Barreto E¹ ¹UFAL, ²UPE

05. Pain and Nociception Pharmacology

Graduate Student (Master/Doctoral)

Antonio Carlos dos Reis Filho

05.008 Alfa-phellandrene reduces cancer hypernociception in an experimental model in mice. Reis Filho AC, Pinheiro Neto FP, Nogueira MRSN, Lopes EML, Almeida FRC, França ARSF, Lima MPD, Gomes LS, Acha BT, Ferreira PMP UFPI

Evelyne da Silva Brum

05.014 Mitochondrial dysfunction in a fibromyalgia-like symptoms model in mice. Brum ES¹, Fialho MFP¹, Hartmann DD¹, Gonçalves DF¹, Fischer SPM¹, Scussel R², Machado-de-Ávila RA², Dalla Corte CL³, Soares FAA¹, Oliveira SM¹ ¹UFMSM, ²Unesc, ³Unipampa



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06. Cardiovascular and Renal Pharmacology

Undergraduate Student

Yan Milen Coelho Cruz

06.027 Effect of luteolin on endothelial superoxide anion generation. Cruz YMC¹, Assunção HCR², Bertolino J², Fernandes L¹ ¹Unifesp-Diadema, ²Unifesp

José Marden Mendes Neto

06.051 Hypotensive and vasorelaxant effect of (-)-myrtenol in hypertensive rats. Mendes Neto JM, Maia MIA, Silva EAP, Feitosa MJB, Santos SA, Amaral RG, Santos SL UFS

Graduate Student (Master/Doctoral)

Marcela Maria Blascke de Mello

06.004 Matrix Metalloproteinase (MMP)-2 contributes to decrease dystrophin and troponin i in hypertension-induced cardiac remodeling and dysfunction. Mello MMB, Parente JM, Omoto ACM, Fazan Jr. R, Castro MM USP

Wanessa Mayumi Carvalho Awata

06.010 Lethal sepsis increases the anti-contractile action of PVAT by a mechanism that involves NO and PGI₂. Awata WMC¹, Gonzaga NA¹, Borges VF¹, Carnio EC², Cunha FQ¹, Tirapelli C² ¹FMRP-USP, ²EERP-USP

Juliano Vilela Alves

06.017 Supraphysiological levels of testosterone induces cardiac dysfunction via NLRP3 inflammasome activation. Alves JV¹, Costa RM², Omoto ACM², Silva J², Tostes RCA¹ ¹FMRP-USP, ²UFG

Rafaela Gomes da Silva Teixeira

06.035 Pharmacological evaluation of a quinazoline derivate in vascular reactivity. Teixeira RGS¹, Barenco TS², Espírito-Santo LC³, Resende GO³, Ponte CG³, Santos WC¹ ¹UFF, ²UFRJ, ³IFRJ

Aline Garcia Fedoce

06.041 IL-1R1 contributes to endothelial dysfunction, vascular remodeling and oxidative stress in Angiotensin II-induced hypertension. Fedoce AG, Pereira CA, Aguiar CAS, Parente JM, Gonzaga NDA, Tostes RCA, Carneiro FS FMRP-USP

Rayanne Maira Felix Ribeiro Alves

06.044 Effect of carvedilol on monocrotaline induced pulmonary hypertension in rats. Alves RMFR, Medeiros IA, Oliveira JCPL, Maciel PMP, Silva GNA, Santos PF, Azevedo FLAA, Gonçalves TAF UFPB

PhD

Rafael Menezes da Costa

06.050 Hyperglycemia induces apoptosis of HEK 293 cells by reducing Nrf2 activity and oxidative stress. Costa RM¹, Silva JLM¹, Alves JV², Tostes RCA² ¹UFG, ²FMRP-USP




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07. Endocrine, Reproductive and Urinary Pharmacology

Graduate Student (Master/Doctoral)

Marina Delgobo

07.002 N-acetylcysteine and alpha-lipoic acid improve oxidative stress, inflammation and serum lipids levels in ovariectomized rats via estrogen-independent mechanisms. Delgobo M, Agnes JP, Gonçalves RM, Santos VW, Zanotto-Filho A UFSC

PhD

Priscila de Souza

07.019 Diuretic and renal protective effect of two natural xanthenes in normotensive and hypertensive rats. Souza P¹, Mariano LNB¹, Boeing T¹, Silva RCMVA^{1F}, Cechinel-Filho V¹, Niero R¹, Silva LM², Andrade SF¹ ¹Univali, ²UFPR

08. Respiratory and Gastrointestinal Pharmacology

Undergraduate Student

Alexsandro Tavares Figueiredo Junior

08.036 Polymeric nanoparticles carried with bixin prevent pulmonary oxidative stress and inflammation induced by cigarette smoke in murine model. Figueiredo Júnior ATF, Lanzetti MLDD, Valença SS, Finotelli PV, Anjos FF UFRJ

Graduate Student (Master/Doctoral)

Edvaldo Balbino Alves Junior

08.002 Evaluation of immunoregulatory, antioxidant and anti-secretory activity of estragole in the gastric mucosa in animals' models. Alves Júnior EB¹, Serafim CAL¹, Pessoa MLS¹, Vieira GC¹, Jesus TG¹, Silva LMO¹, Silva AO¹, Gomes TGC², Araújo Júnior RF², Batista LM¹, Vasconcelos RC², Araújo AA² ¹UFPB, ²UFRN

Bruno Iles

08.024 Polymeric nanoparticles as a sodium alendronate release vehicle in rats: effective study and gastrointestinal toxicity. Iles B, Pacheco G, Nolêto IRSG, Sousa GC, Oliveira ACP, Alencar MS, Araújo AR, Dourado FF, Ribeiro FOS, Silva DA, Medeiros JVR UFPI

Isabela Ribeiro de Sá Guimarães Nolêto

08.028 Metformin promotes gastroprotection on alendronate-induced gastric damage in normoglycemic and hyperglycemic rats. Nolêto IRSG¹, Iles B¹, Alencar MS¹, Lopes ALF¹, Oliveira AP¹, Pacheco G¹, Sousa FBM², Sousa NA¹, Chaves LS¹, Medeiros JVR¹ ¹UFPI, ²UniNassau

PhD

Samara Rodrigues Bonfim Damasceno

08.012 Lectins from *Canavalia ensiformis* e *Canavalia brasiliensis* prevent increased [Ca²⁺]_c and necrosis of pancreatic acinar cells and improve experimental acute alcoholic pancreatitis. Damasceno SRB¹, Pantoja PS¹, Marques FCJ², Carvalho CMM¹, Leite KESS², Lima MAS², Nascimento KS¹, Cavada BS¹, Assreuy AMS², Souza MHLP¹, Criddle DN¹, Soares PMG¹ ¹UFC, ²UECE



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09. Natural Products and Toxinology

Undergraduate Student

Marcella de Lucena Machado

09.026 The potential therapeutic effect of a polyphenol-rich extract from seeds of *Euterpe oleracea* Mart. (acai) in renovascular hypertension. Machado ML, Cunha LLM, Vilhena JC, Jorge TM, Carvalho LCRM, Soares RA, Santos IB, Bem GF, Ognibene D, Resende AC, Soares de Moura R, Costa CAD UERJ

Gabrielle Costa Sousa

09.029 Protective effect of Epiisopilosine, a new alkaloid from *Pilocarpus Microphyllus*, on paracetamol induced hepatic lesion in mice. Sousa GC¹, Chaves LS¹, Santos ES¹, Silva PC¹, Pacheco G¹, Sousa FBM², Carvalho JL¹, Lopes ALF¹, Pinho SS¹, Medeiros JVR¹ ¹UFPI, ²UniNassau

João Antônio Costa de Sousa

09.037 Effect of aqueous extract and protein fraction without phycocyanin from *Spirulina platensis* in human neutrophils and preadipocytes. Sousa JAC, Almeida AC, Azul FVCS, Pinto CS, Melo KM, Rocha TM, Viana GSB, Campos DCO, Santos FA, Oliveira HD, Pimenta ATA, Araújo EVO, Leal LKAM UFC

Francisco Fernandes Lacerda Júnior

09.040 Effects of supplementation with *S. Platensis* on oxidative stress and via MAPK in uterus of Wistar rats. Lacerda Júnior FF¹, Ferreira PBF¹, Diniz AFA¹, Silva MCCS¹, Araújo LCC², Silva AS¹, Costa BA¹ ¹UFPB, ²USP

Graduate Student (Master/Doctoral)

Fábio de Oliveira Silva Ribeiro

09.011 Antifungal and cytotoxic profile of the modified gum of *Anadenanthera colubrina* var. *Cebil* (Griseb.) Altschul. Ribeiro FOS¹, Mendes MGA¹, Brito LM², Daboit TC¹, Pessoa CO², Araújo AR¹, Silva DA¹ ¹UFPI, ²UFC

Josy Goldoni Lazarini

09.043 Bioactive Fraction of *Eugenia selloi* (Pitangatuba), a Brazilian native superfruit, decrease the inflammatory process by suppress the NF- κ B activation. Lazarini JG¹, Soares JC², Franchin M¹, Nani BD¹, Massarioli AP², Alencar SM², Rosalen PL¹ ¹Unicamp, ²USP

Matheus Henrique Romão

09.044 Effects of *Euterpe oleracea* Mart. (Acai) Extract on hepatic steatosis associated to obesity: Role of the Renin-Angiotensin System. Romão MH, Bem GF, Santos IBS, Soares RA, Ognibene D, Costa CA, Resende AC UERJ

Fênix Alexandra de Araujo

09.051 Braylin-induced relaxant effect in the corpus cavernosum involves NO/sGC pathway. Araújo FA¹, Jesus RLC², Costa RS², Souza Filho OP², Velozo ES², Vasconcelos DFSA² ¹CPqGM-Fiocruz, ²UFBA



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Raquel Rangel Silveiras

09.066 Vasoprotective effects of piridoxamine, an inhibitor of advanced glycation end-products, in non-alcoholic fatty liver disease associated liver microcirculation disturbances. Silveiras RR, Pereira ENGS, Rodrigues KL, Flores EEI, Daliry A Fiocruz

PhD

Ana Jérsia Araújo

09.019 Antibacterial and antibiofilm activities of cordiaquinones obtained from *Cordia polycephala* roots. Araújo AJ¹, Barros AB¹, Oliveira MA¹, Araújo AR¹, Soares MJS¹, Freitas HPS¹, Leite JRSA², Pessoa ODL³, Marinho Filho JDB¹ ¹UFPI, ²UnB, ³UFC

10. Cancer Pharmacology

Graduate Student (Master/Doctoral)

Thadeu Estevam Moreira Maramaldo Costa

10.006 Gedunin Effect on Glioblastoma Progression. Costa TEMM¹, Seito LN¹, Krahe TE², Henriques MG¹, Penido C¹ ¹Fiocruz, ²UERJ

Caroline Luísa Quiles

10.016 Melatonergic System, but NOT Melatonin Content, Determines Differences in the Viability of Human Urothelial Carcinoma Cell Lines. Quiles CL, Moreno MOC, Muxel SM, Kinker GS, Fernandes PACM, Markus RP USP

Thaís Cristina Muradás

10.018 Modulation of short-chain free fatty acid receptors FFA2 and FFA3 in breast cancer cells. Muradás TC, Campos MM PUC-RS

PhD

Andréa Felinto Moura

10.009 Prospection of new synthetic molecules and determination of anticancer effect of a new synthetic chalcone-sulfonamide (CSS185). Moura AF¹, Araújo AJ¹, Marinho Filho JDB¹, Santos MCL², Silva MFS², Oliveira FCE², Castro MRC³, Peres CN³, Pessoa C², Moraes Filho MO² ¹UFPI, ²UFC, ³UFG

12. Drug Discovery and Development

Graduate Student (Master/Doctoral)

David Tsuyoshi Hiramatsu de Castro

12.002 Preclinical pharmacological evaluation of *Senna velutina* roots: Chemical composition, *in vitro* and *in vivo* antitumor effects, and death mechanisms in B16F10-Nex2 melanoma cell. Castro DTH¹, Campos JF¹, Damíão MJ¹, Torquato HF², Paredes-Gamero EJ³, Carollo CA³, Rodrigues EG², Souza KDP¹, Santos EL¹ ¹UFGD, ²Unifesp, ³UFMS

Marcos Jorge Rocha Guimarães

12.011 Anticholinesterase-antimuscarinics: Study of dual agents aiming at application for Alzheimer's disease. Guimarães MJR¹, Viegas Júnior CV², Castro NG¹, Neves GA¹, Romeiro LAS³, Nascente LC³ ¹UFRJ, ²Unifal, ³UnB



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PhD

Fernanda Gobbi Amorim

12.006 From Kefir proteome to *in vivo* analysis: Exploring the hypotensive effects of a prototype candidate for ACE inhibitor drug. Amorim FG¹, Coitinho LB², Aires R³, Dias AT³, Meyrelles SS³, Rezende LCD³, Pauw ED⁴, Quinton L⁴, Campagnaro BP¹, Vasquez EC¹ ¹UVV-ES, ²FCFRP-USP, ³UFES, ⁴University of Liège

14. Pharmacology: Other

Graduate Student (Master/Doctoral)

Evelyn Nunes Goulart da Silva Pereira

14.014 Pleotropic effects of Simvastatin in an experimental model of non-alcoholic fatty liver disease. Pereira ENGS, Martins CSM, Araújo BPD, Silvaes RR, Flores EEI, Rodrigues KL, Daliry A Fiocruz