

Artigos Científicos

2012

1) Rodrigues, Ana Paula C.; COSTA, L. M M ; Santos, Bruna L.R. ; Maia, Rodolfo C. ; Miranda, Ana Luisa P. ; BARREIRO, E. J. ; FRAGA, Carlos A Manssour . Novel furfurylidene N-acylhydrazones derived from natural saffrole: discovery of LASSBio-1215, a new potent antiplatelet prototype. **Journal of Enzyme Inhibition and Medicinal Chemistry** (Print), v. 27, p. 101-109, 2012.

2) Hernández, Paola ; Cabrera, Mauricio ; Lavaggi, María Laura ; Celano, Laura; Tiscornia, Inés ; Rodrigues da Costa, Thiago ; Thomson, Leonor ; Bollati-Fogolín, Mariela ; Miranda, Ana Luisa P. ; Lima, Lidia M. ; Barreiro, Eliezer J. ; González, Mercedes ; Cerecetto, Hugo . Discovery of new orally effective analgesic and anti-inflammatory hybrid furoxanyl N-acylhydrazone derivatives. **Bioorganic & Medicinal Chemistry** (Print), v. 20, p. 2158-2171, 2012.

3) LACERDA, RENATA B. ; da Silva, Leandro L. ; DE LIMA, CLEVERTON K. F.; MIGUEZ, EDUARDO ; Miranda, Ana Luisa P. ; LAUFER, STEFAN A. ; Barreiro, Eliezer J. ; Fraga, Carlos A. M. . Discovery of Novel Orally Active Anti-Inflammatory N-Phenylpyrazolyl-N-Glyciny-Hydrazone Derivatives That Inhibit TNF- α Production. **Plos One**, v. 7, p. e46925, 2012.

4) RIBEIRO, JOAO CRISPIM M.L.; VAGNALDO FECHINE, FRANCISCO ; RIBEIRO, MARIANA ZAIRA M.L. ; Barreiro, Eliezer J. ; MOREIRA LIMA, LIDIA; RICARDO, NAGILA M.P.S.; AMARAL DE MORAES, MARIA ELISABETE ; ODORICO DE MORAES, MANOEL . Potential Inhibitory Effect of LASSBio-596, a New Thalidomide Hybrid, on Inflammatory Corneal Angiogenesis in Rabbits. **Ophthalmic Research**, v. 48, p. 177-185, 2012.

5) Kümmerle, Arthur E. ; SCHMITT, MARTINE ; CARDOZO, SUZANA V. S. ; Lugnier, Claire ; VILLA, PASCAL ; Lopes, Alexandra B. ; Romeiro, Nelilma C. ; JUSTINIANO, HÉLÈNE ; MARTINS, MARCO A. ; Fraga, Carlos A. M. ; BOURGUIGNON, JEAN-JACQUES ; Barreiro, Eliezer J. . Design, Synthesis, and Pharmacological Evaluation of N -Acylhydrazones and Novel Conformationally Constrained Compounds as Selective and Potent Orally Active Phosphodiesterase-4 Inhibitors. **Journal of Medicinal Chemistry**, v. 55, p. 7525-7545, 2012.

6) PEREIRA, SHARLENE LOPES ; KUMMERLE, ARTHUR EUGEN ; Fraga, Carlos Alberto Manssour ; Barreiro, Eliezer Jesus ; SUDO, Roberto Takashi ; ZAPATA-SUDO, Gisele . Vasodilator and antihypertensive effects of a novel N-acylhydrazone derivative mediated by the inhibition of L-type Ca²⁺ channels. **Fundamental & Clinical Pharmacology**, v. 26, p. 000, **2012**. doi: 10.1111/j.1472-8206.2012.01076.x. [Epub ahead of print]

7) ZAPATA-SUDO, Gisele ; LIMA, L. M. ; Barreiro, Eliezer J. ; NUNES, ISABELLE KARINE DA COSTA ; PONTES, LUANA BRAGA ; SILVA, JAQUELINE SOARES DA ; BARREIRO, ELIEZER JESUS ; SUDO, Roberto Takashi ; Lima, Lídia Moreira . Benzenesulfonamide attenuates monocrotaline-induced pulmonary arterial hypertension in a rat model. **European Journal of Pharmacology**, v. 690, p. 176-182, **2012**.

8) LEAL, CARLA MOREIRA ; PEREIRA, SHARLENE LOPES ; KÜMMERLE, ARTHUR EUGEN ; LEAL, DANIELLA MOREIRA ; TESCH, ROBERTA ; DE SANTANNA, CARLOS M.R. ; FRAGA, CARLOS ALBERTO M. ; Barreiro, Eliezer Jesus ; SUDO, Roberto Takashi ; ZAPATA-SUDO, Gisele . Antihypertensive profile of 2-thienyl-3,4-methylenedioxybenzoylhydrazone is mediated by activation of the A_{2A} adenosine receptor. **European Journal of Medicinal Chemistry**, v. 55, p. 49-57, **2012**.

9) DE OLIVEIRA LOPES, RAQUEL; ROMEIRO, NELILMA CORREIA ; DE LIMA, CLEVERTON KLEITON F. ; Louback da Silva, Leandro ; PALHARES DE MIRANDA, ANA LUISA ; NASCIMENTO, PAULO GUSTAVO B.D. ; CUNHA, FERNANDO Q. ; Barreiro, Eliezer J.; Lima, Lídia Moreira. Docking, synthesis and pharmacological activity of novel urea-derivatives designed as p38 MAPK inhibitors. **European Journal of Medicinal Chemistry**, v. 54, p. 264-271, **2012**.

10) VELOSO, MARCIA P. ; Barreiro, Eliezer J. ; MIRANDA, ANA L. P. ; SILVA, GILBERTO M. S. ; DORIGUETTO, ANTONIO C.; Romeiro, Nelilma C.; ELLENA, JAVIER ; Fraga, Carlos A. M. ; ALVES, HÉLIO DE M. . Synthesis and characterization of the atropisomeric relationships of a substituted N-phenyl-bipyrzole derivative with anti-inflammatory properties. **Chirality** (New York, N.Y. Print), v. 24, p. 463-470, **2012**.

11) MENEZES, CARLA M. S.; Alves, Marina A. ; DO AMARAL, DANIEL N. ; Noël, François ; RIVERA, GILDARDO ; Barreiro, Eliezer J. ; LIMA, LÍDIA M. ; THIBAUT, JEAN PIERRE B. . Synthesis, Biological Evaluation, and Structure-

activity Relationship of Clonazepam, Meclonazepam, and 1,4-Benzodiazepine Compounds with Schistosomicidal Activity. **Chemical Biology & Drug Design** (Print), v. 79, p. 943-949, **2012**.

12) DANUELLO, A.; ROMEIRO, N. C. ; GIESEL, G. M. ; Pivatto, M. ; VIEGAS JUNIOR, C. ; VERLI, H. ; BARREIRO, E. J. ; FRAGA, C. A. M. ; CASTRO, N. G. ; BOLZANI, V. S.. Molecular docking and molecular dynamic studies of semi-synthetic piperidine alkaloids as acetylcholinesterase inhibitors. **Journal of the Brazilian Chemical Society** (Impresso), v. 23, p. 163-170, **2012**.

13) Neves, Gilda ; ANTONIO, CAMILA B. ; BETTI, ANDRESA H. ; PRANKE, MARIANA A. ; Fraga, Carlos A.M. ; Barreiro, Eliezer J. ; Noël, François ; Rates, Stela M.K. . New insights into pharmacological profile of LASSBio-579, a multi-target N-phenylpiperazine derivative active on animal models of schizophrenia. **Behavioural Brain Research**, p. 86-95, **2012**.

14) DE MIRANDA, AMANDA ; JÚNIOR, WALFRIDO ; DA SILVA, YOLANDA ; ALEXANDRE-MOREIRA, MAGNA ; CASTRO, ROSANE ; SABINO, JOSÉ ; LIÃO, LUCIANO; LIMA, LÍDIA; Barreiro, Eliezer . Design, Synthesis, Antinociceptive and Anti-Inflammatory Activities of Novel Piroxicam Analogues. **Molecules** (Basel. Online), v. 17, p. 14126-14145, **2012**.

15) BARBOSA, MARIA ; RAMOS, THIAGO ; DE ARANTES, ANA ; MARTINS, MARCO ; SILVA, PATRÍCIA ; Barreiro, Eliezer ; LIMA, LÍDIA. Synthesis and Pharmacological Evaluation of Novel Phenyl Sulfonamide Derivatives Designed as Modulators of Pulmonary Inflammatory Response. **Molecules** (Basel. Online), v. 17, p. 14651-14672, **2012**.

16) CARVALHO, Samir D'aquino ; FEITOSA, L. O. ; SOARES, M. ; COSTA, T. E. M. M. ; Henriques, M. G. ; Salomão, K. ; CASTRO, Solange Lisboa de ; Kaiser, M. ; BRUN, R. ; Wardell, James L. ; Wardell, S. M. S. V. ; Trossini, G. H. G.; Andricopulo, A. D. ; SILVA, Edson Ferreira da ; Fraga, Carlos A. M. . Design and synthesis of new (E)-Cinnamic N-Acylhydrazones as potent Antitrypanosomal agents. **European Journal of Medicinal Chemistry**, v. 54, p. 512-521, **2012**.

17) CARVALHO, Samir D'aquino ; SILVA, Edson Ferreira da ; Fraga, Carlos A. M. ; Wardell, S. M. S. V. ; Wardell, James L. ; Tiekink, E. R. T. . (2E)-N'-[(E)-Benzylidene]-3-phenylprop-2-enohydrazide from synchrotron radiation. **Acta Crystallographica. Section E**, v. E68, p. o2255-o2256, **2012**.

18) MAIA, Rodolfo Do Couto ; TESCH, R.; Fraga, Carlos A. M.. Phenylpiperazine derivatives: a patent review (2006 present). **Expert Opinion on Therapeutic Patents**, v. 22, p. 1169-1178, **2012**.

19) Arnaud-Batista, F. J. ; Costa, G. T. ; de Oliveira, I. M. B. ; Costa, P. P. C. ; Santos, C. F. ; FONTELES, M. C. ; Uchoa, D. E. ; Silveira, E. R. ; Cardi, B. A. ; CARVALHO, K. M. ; AMARAL, L. S. ; Pocas, E. S. C. ; QUINTAS, L. E. M. ; Noel, F. ; NASCIMENTO, N. R. F. . The natriuretic effect of bufalin in isolated rat kidneys involves activation of the Na⁺/K⁺-ATPase-Src kinase pathway. **American Journal of Physiology. Renal Physiology**, p. F959-F966, **2012**.

20) Ramon Peçanha ; Luiza de Lima e Silva Bagno ; Marcelo Baldanza Ribeiro; Anna Beatriz Robottom Ferreira ; Milton Ozorio Moraes ; ZAPATA-SUDO, G. ; Taís Hanae Kasai-Brunswick ; CARVALHO, Antonio Carlos C; GOLDENBERG, Regina Coeli S ; João Pedro Saar Werneck-de-Castro . Adipose-Derived Stem-Cell Treatment of Skeletal Muscle Injury. **Journal of Bone and Joint Surgery. American Volume (Print ed.)**, v. 94, p. 609-617, **2012**.

21) ZAPATA-SUDO, G. ; LIMA, L. M.; Sharlene L. Pereira ; Trachez M. M.; COSTA, F. P.; SOUZA, B. J.; MONTEIRO, C. E. S. ; Romeiro N.C.; DANDREA, E. D. ; SUDO, R. T.; BARREIRO, E. J.. Docking, Synthesis and Anti-diabetic Activity of Novel Sulfonylhydrazone Derivatives Designed as PPAR- γ Agonists. **Current Topics in Medicinal Chemistry (Print)**, v. 12, p. 2037-2048, **2012**.

22) Adão, Camila Rodrigues ; Pereira da Silva, Bernadete ; Tinoco, Luzineide Wanderley ; PARENTE, José Paz . Haemolytic Activity and Immunological Adjuvant Effect of a New Steroidal Saponin from *Allium ampeloprasum* var. *porrum*. **Chemistry & Biodiversity (Print)**, v. 9, p. 58-67, **2012**.

23) Coutinho, M. A. S. ; MUZITANO, M. F. ; Cruz, E. A. ; Bergonzi, M. C.; KAISER, C. R. ; TINOCO, L. W. ; Bilia, A. R. ; Vincieri, F. A. ; ROSSI-BERGMANN, B. ; COSTA, Sonia Soares . Flowers from *Kalanchoe pinnata* are a Rich Source of T Cell-Suppressive Flavonoids. **Natural Product Communications**, v. 7, p. 1-4, **2012**.

24) Merlino, Alicia ; Benitez, Diego ; Campillo, Nuria E. ; Páez, Juan A. ; Tinoco, Luzineide W. ; González, Mercedes ; Cerecetto, Hugo . Amidines bearing benzofuroxan or benzimidazole 1,3-dioxide core scaffolds as *Trypanosoma cruzi*-inhibitors: structural basis for their interactions with cruzipain. **MEDCHEMCOMM**, v. 3, p. 90-101, **2012**.

25) RENNO, M. N.; FRANCA, T. C. C.; Palatnik-de-Sousa, C. B. P. ; TINOCO, L. W. ; FIGUEROA-VILLAR, J. D.. Kinetics and Docking Studies of two potential new inhibitors of the Nucleoside Hydrolase from *Leishmania donovani*. **European Journal of Medicinal Chemistry**, v. 56, p. 301-307, **2012**.

26) Alvarez, Guzmán ; Aguirre-López, Beatriz ; Cabrera, Nallely ; Marins, Eliã B.; Tinoco, Luzineide ; Batthyány, Carlos Ignacio ; de Gómez-Puyou, Marieta Tuena ; Puyou, Armando Gómez ; Pérez-Montfort, Ruy ; Cerecetto, Hugo ; González, Mercedes. 1,2,4-thiadiazol-5(4H)-ones: a new class of selective inhibitors of *Trypanosoma cruzi* triosephosphate isomerase. Study of the mechanism of inhibition. **Journal of Enzyme Inhibition and Medicinal Chemistry** (Online), v. 00, p. 1-9, **2012**.

27) Costa, F. N.; da Silva, A. J. M. ; Netto, C.D ; Domingos, J.L.O.; COSTA, P.R.R.; Leitão, G. G.. Purification of a synthetic pterocarpanquinone by countercurrent chromatography. **Journal of the Brazilian Chemical Society** (Impresso), v. 23, p. 1114-1118, **2012**.

28) Portes, J. A. ; Netto, C.D. ; da Silva, A. J. M. ; COSTA, P.R.R. ; daMatta, R. A. ; dos Santos, T. A T. ; Souza, W. ; Seabra, S. H. . A new type of pterocarpanquinone that affects *Toxoplasma gondii* tachyzoites in vitro. **Veterinary Parasitology** (Print), v. 186, p. 261-269, **2012**.

29) MANCEBO-ARACIL, JUAN ; MARTÍN-RODRÍGUEZ, MARÍA ; NÁJERA, CARMEN ; SANSANO, JOSÉ M. ; COSTA, PAULO R.R. ; DE LIMA, EVANOEL CRIZANTO ; DIAS, AYRES G. . Binap-silver salts as chiral catalysts for the enantioselective 1,3-dipolar cycloaddition of azomethine ylides and alkenes. **Tetrahedron: Asymmetry** (Print), v. 23, p. 1596-1606, **2012**.

30) Radulovi , Niko ; or evi , Nevenka ; Deni , Marija ; Pinheiro, Mariana Martins Gomes ; Fernandes, Patricia Dias ; Boylan, Fabio . A novel toxic alkaloid from poison hemlock (*Conium maculatum* L., Apiaceae): Identification, synthesis and antinociceptive activity. **Food and Chemical Toxicology**, v. 50, p. 274-279, **2012**.

31) Pinheiro, MM ; Boylan, Fabio ; FERNANDES, P. D. . Antinociceptive effect of the *Orbignya speciosa* Mart. (Babassu) leaves: Evidence for the involvement of apigenin. **Life Sciences** (1973), v. 91, p. 293-300, **2012**.

32) Rangel, Rafael A. S. ; MARINHO, Bruno Guimarães ; FERNANDES, P. D.; Moura, Roberto S ; Lessa, Marcos A.. Pharmacological mechanisms involved in the antinociceptive effects of dexmedetomidine in mice. **Fundamental &**

Clinical Pharmacology, v. 01, p. 00-05, 2012. doi: 10.1111/j.1472-8206.2012.01068.x. [Epub ahead of print]

33) ABDUL-WAHAB, IKARASTIKA RAHAYU ; GUILHON, CAROLINA CARVALHO ; Fernandes, Patricia Dias ; Boylan, Fabio . Anti-nociceptive activity of *Pereskia bleo* Kunth. (Cactaceae) leaves extracts. **Journal of Ethnopharmacology**, v. 144, p. 741-746, 2012.

34) Izumi, Erika ; Ueda-Nakamura, Tânia ; Veiga, Valdir F. ; Pinto, Angelo C. ; Nakamura, Celso Vataru . Terpenes from *Copaifera* Demonstrated in Vitro Antiparasitic and Synergic Activity . **Journal of Medicinal Chemistry**, v. 55, p. 2994-3001, 2012.

35) Almeida, Márcia R. ; Silva, Alessandra E. S. ; Braga, Andrezza O. ; Braga, João Marcelo A. ; Tamoio, Neusa ; Pinto, Angelo C. . Anatomical description, alkaloid content and quality control of the bark of *Pau-pereira* (*Geissospermum laeve*, Apocynaceae). **Journal of Medicinal Plant Research**, v. 6, p. 1866-1872, 2012.

36) Lages, Bruno G. ; Fleury, Beatriz G. ; Hovell, Ana M. C. ; Rezende, Claudia M. ; Pinto, Angelo C. ; Creed, Joel C. . Proximity to competitors changes secondary metabolites of non-indigenous cup corals, *Tubastraea* spp., in the southwest Atlantic. **Marine Biology** (Berlin), v. 159, p. 1551-1559, 2012.

37) Rezende, Michelle J. C. ; Pereira, Mírian S. C. ; Santos, Gabriel F. N. ; Aroeira, Gabriel O. P. ; Albuquerque Jr., Tiago C. ; Suarez, Paulo A. Z. ; Pinto, Angelo C. . Preparation, characterisation and evaluation of brazilian clay-based catalysts for use in esterification reactions. **Journal of the Brazilian Chemical Society** (Impresso), v. 23, p. 1209-1215, 2012.

38) Lima, Antonio L. dos Santos ; Lima, Keila dos Santos C. ; França, Tanos C. C.; Tavares, Maria Inês B. ; San-Gil, Rosane A. da Silva ; Eberlin, Marcos N; Pinto, Angelo C. . Mesophase evolution in heat-treated solid petroleum pitches. **Journal of the Brazilian Chemical Society** (Impresso), v. 23, p. 1355-1371, 2012.

39) Boechat, Núbia Boechat, Núbia Pinheiro, Luiz C. S. Silva, Thiago S. Aguiar, Anna C. C. Carvalho, Alcione S. Bastos, Monica M. Costa, Carolina C. P. Pinheiro, Sergio PINTO, A. C. Mendonça, Jorge S. Dutra, Karen D. B. Valverde, Alessandra L. Santos-Filho, Osvaldo A. Ceravolo, Isabela P. Krettli, Antoniana U. Valverde, Alessandra L. Pinheiro, Sergio Silva, Thiago S. Mendonça, Jorge S. Costa, Carolina C. P. Ceravolo, Isabela P. Dutra, Karen D. B. Pinto, Angelo

C. Pinheiro, Luiz C. S., et al.; New Trifluoromethyl Triazolopyrimidines as Anti-Plasmodium falciparum Agents. **Molecules** (Basel. Online), v. 17, p. 8285-8302, **2012**.

40) CAMPOS, VINICIUS R. ; SANTOS, EVELYNE A. DOS ; Ferreira, Vitor F. ; MONTENEGRO, RAQUEL C. ; DE SOUZA, MARIA C. B. V. ; COSTA-LOTUFO, LETÍCIA V. ; DE MORAES, MANOEL O. ; REGUFE, ANNA K. P. ; JORDÃO, ALESSANDRO K. ; Pinto, Angelo C. ; RESENDE, JACKSON A. L. C.; CUNHA, ANNA C. . Synthesis of carbohydrate-based naphthoquinones and their substituted phenylhydrazono derivatives as anticancer agents. **RSC ADV**, v. 2, p. 11438, **2012**.

41) VIANNA, D.R. ; HAMERSKI, L. ; FIGUEIRÓ, F. ; BERNARDI, A. ; VISENTIN, L.C. ; PIRES, E.N.S. ; TEIXEIRA, H.F. ; SALBEGO, C.G. ; EIFLER-LIMA, V.L. ; BATTASTINI, A.M.O. ; VON POSER, G.L. ; PINTO, A.C. . Selective cytotoxicity and apoptosis induction in glioma cell lines by 5-oxygenated-6,7-methylenedioxy coumarins from Pterocaulon species. **European Journal of Medicinal Chemistry**, v. 57, p. 268-274, **2012**.

42) MENEZES, JOSÉ C.J.M.D.S. ; PEREIRA, ANA M.V.M. ; NEVES, MARIA G.P.M.S. ; SILVA, ARTUR M.S. ; SANTOS, SÉRGIO M.; Martinez, Sabrina T. ; Silva, Bárbara V.; PINTO, ÂNGELO C. ; CAVALEIRO, JOSÉ A.S. Synthesis of porphyrin indolin-2-one conjugates via palladium-catalyzed amination reactions. **Tetrahedron** (Oxford. Print), v. 68, p. 8330-8339, **2012**.

43) Boechat, Núbia ; DE LOURDES G. FERREIRA, MARIA ; Bastos, Monica M.; da Silva, Gerson P.; Wardell, Solange M. S. V.; WARDELL, JAMES . Structures of 1-(substituted-phenyl)-4-hydroxymethyl- and -4-fluoromethyl-1,2,3-triazoles. **Zeitschrift für Kristallographie**, v. 227, p. 369-378, **2012**.

44) ROCHA E SILVA, L.F. ; MONTOIA, A. ; AMORIM, R.C.N. ; MELO, M.R. ; HENRIQUE, M.C. ; NUNOMURA, S.M. ; COSTA, M.R.F. ; ANDRADE NETO, V.F. ; COSTA, D.S. ; DANTAS, G. ; LAVRADO, J. ; MOREIRA, R. ; PAULO, A. ; PINTO, A.C. ; TADEI, W.P. ; ZACARDI, R.S. ; EBERLIN, M.N. ; POHLIT, A.M. . Comparative in vitro and in vivo antimalarial activity of the indole alkaloids ellipticine, olivacine, cryptolepine and a synthetic cryptolepine analog. **Phytomedicine** (Stuttgart), v. 20, p. 71-76, **2012**.

45) COSTA, TÚLIO O. G. ; ALMEIDA, RICHARDSON A. ; MELO, JORGE T. ; KOOLEN, HECTOR H. F. ; SILVA, FELIPE M. A. DA ; LEITE, JOSÉ ROBERTO S. A. ; PRATES, MAURA V. ; BLOCH JR., CARLOS ; Pinto, Angelo C. . Isolation and amino acid sequencing by MALDI-TOF-MS/MS of a novel

antimicrobial anionic peptide from the skin secretion of *Osteocephalus taurinus* (Anura, Hylidae). **Journal of the Brazilian Chemical Society** (Impresso), v. 23, p. 2133-2136, **2012**.

46) Cruz, E.A. ; Reuter, S. ; Martin, H. ; Dehzad, N. ; Muzitano, M.F. ; Costa, S.S.; ROSSI-BERGMANN, B. ; Buhl, R. ; Stassen, M. ; Taube, C. . *Kalanchoe pinnata* inhibits mast cell activation and prevents allergic airway disease. **Phytomedicine** (Stuttgart), v. 19, p. 115-121, **2012**.

47) Camargo, Luiza Maria de Magalhães ; Férézou, Jean-Pierre ; TINOCO, Luzineide Wanderley ; KAISER, Carlos Roland ; Costa, Sônia Soares . Flavonoids from *Mimosa xanthocentra* (Leguminosae: Mimosoideae) and molecular modeling studies for isovitexin-2 -O- -l-rhamnopyranoside rotamers. **Phytochemistry Letters** (Print), v. 5, p. 427-431, **2012**.

48) Costa, Sônia S ; COUCEIRO, José Nelson S S ; Silva, Isabel Cristina V ; Malvar, David do C; Coutinho, Marcela A S ; Camargo, Luiza Maria M ; Muzitano, Michelle F ; Vanderlinde, Frederico A . Flavonoids in the therapy and prophylaxis of flu: a patent review. **Expert Opinion on Therapeutic Patents**, v. 22, p. 1111-1121, **2012**.