

Curriculum Vitae

Personal information Joao Rocha

Work experience

1. Employer: Faculty of Pharmacy – University of Lisbon
 - Start date: 022017
 - End date:
 - Position: Associate Professor of Pharmacology and Pharmacotherapy
 - Activities: • Lectures at the Integrated Masters of Pharmaceutical Sciences (Pharmacology&Pharmacotherapy and Responsible for the Immunopharmacology Course), and in the Masters in Regulation and Evaluation of Medicines and Health Products
 - Country: Portugal
2. Employer: Infarmed _ National Authority of Medicines and Health Products
 - Start date: 122018
 - End date:
 - Position: Scientific Assessor of Clinical Pharmacology and Non_Clinical Toxicology
 - Activities:
 - Country: Portugal
3. Employer: DGAV (Directorate General for Food and Veterinary)
 - Start date: 062017
 - End date:
 - Position: Expert Pharmaceutical and Toxicological Assessor
 - Activities: • Pharmaceutical Expert Assessor in the evaluation of Veterinary Medicines • Toxicological Expert Assessor in the evaluation of Phytopharmaceuticals
 - Country: Portugal
4. Employer: Directorate General for Health
 - Start date: 062021
 - End date:
 - Position: Expert at National Commission for Covid_19 Vaccination
 - Activities:
 - Country: Portugal
5. Employer: Regional Health Administration (ARS _ Lisboa e Vale do Tejo)
 - Start date: 042022
 - End date:
 - Position: Expert at the Committee of Pharmacy and Therapeutics (CFT)
 - Activities:
 - Country: Portugal
6. Employer: iMed.UL _ The Research Institute for Medicines
 - Start date: 012009
 - End date:
 - Position: Group Leader
 - Activities: Group Leader at Laboratory of Systems Integration Pharmacology, Clinical & Regulatory Science
 - Country: Portugal
7. Employer: Faculty of Pharmacy – University of Lisbon
 - Start date: 102013
 - End date: 012017
 - Position: Invited Professor of Pharmacology and Pharmacotherapy
 - Activities:
 - Country: Portugal
8. Employer: Faculty of Sciences and Technology – University of Algarve
 - Start date: 102013
 - End date: 012017
 - Position: Invited Professor of Pharmacology and Pharmacotherapy
 - Activities: • Responsible for the courses of Pharmacology I & II and Pharmacotherapy I & II of the Masters in Pharmaceutical Sciences • Responsible for “Seminars in Pharmacology” in the Masters of Medicine
 - Country: Portugal
9. Employer: Faculty of Pharmacy – University of Lisbon
 - Start date: 112005
 - End date: 092013
 - Position: Junior Lecturer of Pharmacology
 - Activities:
 - Country: Portugal

Education and training

1. Subject: Pharmacology and Pharmacotherapy
 - Start date: 2009
 - End date: 2013
 - Qualification: PhD - Doctorate in Pharmacology and Pharmacotherapy
 - Organisation: University of Lisbon
 - Country: Portugal
2. Subject: Herbal Medicines
 - Start date: 2007

- End date: 2009
 - Qualification: MSc - Masters in Science in Herbal Medicines
 - Organisation: Faculty of Pharmacy – University of Lisbon
 - Country: Portugal
3. Subject: Pharmaceutical Sciences
- Start date: 2000
 - End date: 2006
 - Qualification: PharmD - Degree in Pharmaceutical Sciences
 - Organisation: Faculty of Pharmacy – University of Lisbon
 - Country: Portugal
4. Subject: Medicine
- Start date: 2021
 - End date: Present
 - Qualification: MD - Medicine
 - Organisation: Nova Medical School - NOVA University, Lisbon
 - Country: Portugal

Additional information

Publications

João Estarreja, Ana Clara Pimenta, João Botelho, Arminda Maria Vilarés, José João Mendes, João Rocha, Rui Pinto, Vanessa Mateus, Vanessa Machado. Blood count, endocrine, immunologic, renal, and hepatic markers in a case-control animal study of induced periodontitis in female rodents. *Front Physiol.* **2024**, 20:15:1327399. doi: 10.3389/fphys.2024.1327399.

Francisca Almeida-Pinto, Rui Pinto, João Rocha. Navigating the Complex Landscape of Ebola Infection Treatment: A Review of Emerging Pharmacological Approaches. *Infect Dis Ther.* **2024**;13(1):21-55. doi: 10.1007/s40121-023-00913-y.

Sofia Encarnação, Katelene Lima, Quintino Malú, Gonçalo I Caldeira, Maria Paula Duarte, João Rocha, Beatriz Silva Lima, Olga Silva. An Integrated Approach to the Anti-Inflammatory, Antioxidant, and Genotoxic Potential of Portuguese Traditional Preparations from the Bark of *Anacardium occidentale* L. *Plants (Basel).* **2024**, 31;13(3):420. doi: 10.3390/plants13030420.

Adriana Marques, Carla Torre, Rui Pinto, Bruno Sepodes and João Rocha. Treatment Advances in Sepsis and Septic Shock: Modulating Pro- and Anti-Inflammatory Mechanisms. *J. Clin. Med.* **2023**, 12(8), 2892; <https://doi.org/10.3390/jcm12082892>

Joana Godinho-Pereira, Daniela Vaz, Inês Figueira, Joana Aniceto-Romão, Istvan Krizbai, Rui Malhó, João Rocha, Manuela Colla Carvalheiro, Sandra Simões, Maria Manuela Gaspar and Maria Alexandra Brito. Breast Cancer Brain Metastases: Implementation and Characterization of a Mouse Model Relying on Malignant Cells Inoculation in the Carotid Artery. *Cells.* **2023**; 12(16): 2076. doi: 10.3390/cells12162076

Íris Neto, João Rocha, Maria Manuela Gaspar, Catarina P Reis. Experimental Murine Models for Colorectal Cancer Research. *Cancers (Basel).* **2023**;15(9):2570. doi: 10.3390/cancers15092570.

Mariana Domingues, Carla Torre, José Pedro Guerreiro, Pedro Barata, Margarida Correia-Neves, João Rocha, Bruno Sepodes, António Teixeira Rodrigues. COVID-19 pandemic and the quality of antibiotic use in primary care: an interrupted time-series study. *Int J Qual Health Care.* **2023**;35(2):mzad014. doi: 10.1093/intqhc/mzad014.

Frantisek Drafí, Katarina Bauerova, Martin Chrastina, Mohsen Taghdisiesfejr, João Rocha, Rosa Direito, Maria Eduardo Figueira, Bruno Sepodes, Silvester Ponist. *Rhodiola rosea* L. Extract, a Known Adaptogen, Evaluated in Experimental Arthritis. *Molecules.* **2023**;28(13):5053. doi: 10.3390/molecules28135053.

Quintino Malú, Katelene Lima, Maryam Malmir, Rui Pinto, Isabel Moreira da Silva, Luís Catarino, Maria Paula Duarte, Rita Serrano, João Rocha, Beatriz Silva Lima, Olga Silva. Repeated-dose toxicity and genotoxicity assessment of two *Anacardiaceae* species: *Lannea velutina* and *Sorindeia juglandifolia*. *Plants* **2023**, 12(1), 130; <https://doi.org/10.3390/plants12010130>

Quintino Malú, Katelene Lima, Maryam Malmir, Rui Pinto, Isabel Moreira da Silva, Luís Catarino, Maria Paula Duarte, Rita Serrano, João Rocha, Beatriz Silva Lima, Olga Silva. Contribution to the Preclinical Safety Assessment of *Lannea velutina* and *Sorindeia juglandifolia* Leaves. *Plants (Basel).* **2022**;12(1):130. doi: 10.3390/plants12010130.

Shabnam Sabiha; Rita Serrano; Kamrul Hasan; Isabel B. Moreira da Silva; João Rocha; Nurul Islam; Olga Silva. The Genus *Cynometra*: A Review of Ethnomedicine, Chemical, and Biological Data. *Plants* **2022**, 11(24), 3504; <https://doi.org/10.3390/plants11243504>

Inês Martinho, António Teixeira Rodrigues, José Guerreiro, João Rocha, Bruno Sepodes, Carla Torre. A cross-country utilization patterns comparison of high expenditure therapeutic groups between Portugal and six European countries: the two sides of the Portuguese coin. *Expert Rev Pharmacoecon Outcomes Res.* **2022**;1-9. doi: 10.1080/14737167.2023.2144839.

Teixeira MM, Borges FC, Ferreira PS, Rocha J, Sepodes B, Torre C. A review of patient-reported outcomes used for regulatory approval of oncology medicinal products in the European Union between 2017 and 2020. *Front Med (Lausanne).* **2022**;9:968272. doi: 10.3389/fmed.2022.968272.

Rita Modesto, João Estarreja, Inês Silva, João Rocha, Rui Pinto, Vanessa Mateus. Chemically Induced Colitis-Associated Cancer Models in Rodents for Pharmacological Modulation: A Systematic Review. *J Clin Med.* **2022**;11(10):2739. doi: 10.3390/jcm11102739.

Direito R, Rocha J, Sepodes B, Eduardo_Figueira M. From *Diospyros kaki* L. (Persimmon) Phytochemical Profile and Health Impact to New Product Perspectives and Waste Valorization. *Nutrients.*2021;13(9):3283. doi: 10.3390/nu13093283.

Bruno Sepodes, João Rocha, Jorge Batista, Maria_Eduardo Figueira, František Dráfi, Carla Torre. Implementation and Access to Preexposure Prophylaxis (PrEP) for Human Immunodeficiency Virus (HIV) by Men who have Sex with Men in Europe. *Frontiers in Medicine.* 26(11):2608_2618. doi: 10.1016/j.drudis.2021.06.019.

Madalena Gracio, Joao Rocha, Rui Pinto, Ricardo Ferreira, Joao Solas, Maria_Eduardo Figueira, Bruno Sepodes, Ana Cristina Ribeiro. A Proposed Lectin_Mediated Mechanism to Explain the In Vivo Anti_hyperglycemic Activity of γ -conglutin from *Lupinus albus* Seeds. *Food Science and Nutrition.* 9(11):5980_5996. doi: 10.1002/fsn3.2520.

Mota J, Direito R, Rocha J, Fernandes J, Sepodes B, Figueira ME, Raymundo A, Lima A, Ferreira RB..Lupinus albus Protein Components Inhibit MMP_2 and MMP_9 Gelatinolytic Activity In Vitro and In Vivo. *Int J Mol Sci.* 2021;22(24):13286. doi: 10.3390/ijms222413286

Rafael Amaral, Carla Torre, Joao Rocha, Bruno Sepodes. Ebola Outbreaks: A Stress_Test to the Preparedness of Medicines Regulatory Systems for Public Health Crisis. *Drug Discovery Today.* 2021;26(11):2608_2618. doi: 10.1016/j.drudis.2021.06.019.

Rosa Direito, João Rocha, Bruno Sepodes, Maria Eduardo_Figueira. Phenolic Compounds Impact on Rheumatoid Arthritis, Inflammatory Bowel Disease and Microbiota Modulation. *Pharmaceutics*. 2021;13(2):145. DOI: 10.3390/pharmaceutics13020145

Inês Bártolo, Bruna S Santos, Diana Fontinha, Marta Machado, Denise Francisco, Bruno Sepodes, João Rocha, Hélder Mota_Filipe, Rui Pinto, Maria E Figueira, Helena Barroso, Teresa Nascimento, António P Alves de Matos, Américo J S Alves, Nuno G Alves, Carlos J V Simões, Miguel Prudêncio, Teresa M V D Pinho E Melo, Nuno Taveira. Spiro_β_lactam BSS_730A Displays Potent Activity against HIV and Plasmodium. *ACS Infectious Diseases*. 2021;7(2):421_434. DOI: 10.1021/acsinfectdis.0c00768

João Rocha, Raquel Leandro, Rosa Direito, Margarida Gonçalves, Maria Paula Duarte, Adelaide Fernandes, Bruno Sepodes and Maria_Eduardo Figueira. Attenuation of Colonic Injury and Inflammation by Administration of a Phenolic Extract of Summer Savory (*Satureja hortensis* L.) in Experimental Inflammatory Bowel Disease in Mice. *Applied Sciences*. 2020, 10(23), 8465. DOI: 10.3390/app10238465

Mota AH, Andrade JM, Rodrigues MJ, Custódio L, Bronze MR, Duarte N, Baby A, Rocha J, Gaspar MM, Simões S, Carvalheiro M, Fattal E, Almeida AJ, Reis AP. Synchronous insight of in vitro and in vivo biological activities of *Sambucus nigra* L. extracts for industrial uses. *Industrial Crops and Products*, 2020, 154(15):12709. DOI: 10.1016/j.indcrop.2020.112709

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Mota AH, Direito R, Carrasco MP, Rijo P, Ascensão L, Viana AS, Rocha J, Eduardo_Figueira M, Rodrigues MJ, Custódio L, Kuplennik N, Sosnik A, Almeida AJ, Gaspar MM, Reis CP. Combination of hyaluronic acid and PLGA particles as hybrid systems for viscosupplementation in osteoarthritis. *Int J Pharm*. 2019 Mar 25;559:13_22.

Mateus V, Rocha J, Mota_Filipe H, Sepodes B, Pinto R. Hemin reduces inflammation associated with TNBS_induced colitis. *Clin Exp Gastroenterol*. 2018;11:325_334.

Susana A. Vieira da Silva, Ana Clemente, João Rocha, Rosa Direito, Helena Cabral Marques, Bruno Sepodes, Maria_Eduardo Figueira, Maria H. Ribeiro. Anti_inflammatory effect of limonin from cyclodextrin (un)processed orange T juices in in vivo acute inflammation and chronic rheumatoid arthritis models. *Journal of Functional Foods* 49 (2018) 146–153

Mateus V, Rocha J, Alves P, Mota_Filipe H, Sepodes B, Pinto R. Thiadiazolidinone_8 Ameliorates Inflammation Associated with Experimental Colitis in Mice. *Pharmacology*. 2018;101(1_2):35_42.

Rosa Direito, Ana Lima, João Rocha, Ricardo Boavida Ferreira, Joana Mota, Adelaide Fernandes, Rui Pinto, Paula Alves, Maria R. Bronze, Bruno Sepodes, Maria E. Figueira. A persimmon a day may keep colitis away: Dyospiros kaki phenolics inhibit colitis and colon cancer cell proliferation, but not gelatinase activities. *Journal of Nutritional Biochemistry*. 2017;46:100_108

Mateus V, Rocha J, Alves P, Mota_Filipe H, Sepodes B, Pinto RM. Anti_Inflammatory Effect of Erythropoietin in the TNBS_induced Colitis. *Basic Clin Pharmacol Toxicol*. 2017;120(2):138_145.

Figueira ME, Oliveira M, Direito R, Rocha J, Alves P, Serra AT, Duarte C, Bronze R, Fernandes A, Brites D, Freitas M, Fernandes E, Sepodes B. Protective effects of a blueberry extract in acute inflammation and collagen_induced arthritis in the rat. *Biomed Pharmacother*. 2016;83:1191_1202.

Vila_Real H, Coelho H, Rocha J, Fernandes A, Ventura MR, Maycock CD, Iranzo O, Simplicio AL. Peptidomimetic β_Secretase Inhibitors Comprising a Sequence of Amyloid_β Peptide for Alzheimer's Disease. *J Med Chem*. 2015 Jul 23;58(14):5408_18.

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Márcia Reto, Cristina Almeida, João Rocha, Bruno Sepodes, Maria_Eduardo Figueira. Green Tea (*Camellia sinensis*): Hypcholesterolemic Effects in Humans and Anti_Inflammatory Effects in Animals. *Food and Nutrition Sciences*, 2014, 5, 2185_2194

S. Silva, B. Sepodes, J. Rocha, R. Direito, A. Fernandes, D. Brites, M. Freitas, E. Fernandes, M.R. Bronze, M.E. Figueira. Protective effects of hydroxytyrosol_ supplemented olive oil in animal models of acute inflammation and rheumatoid arthritis. *J Nutr Biochem*. 2015 Apr;26(4):360_8

Rocha J, Figueira ME, Barateiro A, Fernandes A, Brites D, Pinto R, Freitas M, Fernandes E, Mota_Filipe H, Sepodes B. Inhibition of glycogen synthase kinase 3β (GSK_3β) attenuates organ injury and dysfunction associated to liver ischemia_reperfusion and thermal injury in the rat. *Shock*. 2015 Apr;43(4):369_78.

Rocha J, Eduardo_Figueira M, Barateiro A, Fernandes A, Brites D, Pinto R, Freitas M, Fernandes E, Mota_Filipe H, Sepodes B. Erythropoietin Reduces Acute Lung Injury and Multiple Organ Failure/Dysfunction Associated to a Scald_Burn Inflammatory Injury in the Rat. *Inflammation*. 2015 Feb;38(1):312_26.

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Maria_Eduardo Figueira, Madalena Bettencourt Camara, Rosa Direito, Joa~o Pedro Rocha, Teresa Serra, Catarina Duarte, Adelaide Fernandes, Marisa Freitas, E. Fernandes, Maria Cristina Marques, Maria R Bronze and Bruno Sepodes Chemical characterization of a red raspberry fruit extract and evaluation of its pharmacological effects in experimental models of acute inflammation and collagen_induced arthritis *Food Funct*. 2014 Dec;5(12):3241_51

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Bernardo Ratilal, Mariana Arroja, Joao Rocha, Adelaide Fernandes, Andreia Barateiro, Dora Brites, Rui Pinto, Bruno Sepodes and Helder Mota_Filipe. Neuroprotective effects of erythropoietin pretreatment in a rodent model of transient middle cerebral artery occlusion. *J Neurosurg*. 2014 Jul;121(1):55_62

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G da Silva, M Taniça, J Rocha, R Serrano, ET Gomes, B Sepodes, O Silva In vivo anti_inflammatory effect and

toxicological screening of *Maytenus heterophylla* and *Maytenus senegalensis* extracts. *Hum Exp Toxicol*. 2010; 30(7):693_700

Maria Inês Amaro, João Rocha, Maria Eduardo_Figueira, Helder Mota_Filipe, Bruno Sepodes, Maria H. Ribeiro. Anti_inflammatory activity of naringin and the biosynthesisid naringenin by naringinase immobilized in microstructured materials in a model of DSS_induced colitis in mice. *Food Research International* 42 (2009) 1010–1017

Pinpat Tripatara, Nimesh S Patel, Vincenzo Brancaleone, Derek Renshaw, João Rocha, Bruno Sepodes, Helder Mota_Filipe, Mauro Perretti, Christoph Thiernemann. Characterisation of Cystathionine Gamma_ Lyase/Hydrogen Sulphide Pathway in Ischaemia/Reperfusion Injury of the Mouse Kidney: an in vivo Study. *European Journal of Pharmacology*. 2009 Mar 15;606(1_3):205_9.

Leticia Bignotto, Joao Rocha, Bruno Sepodes, Maria Eduardo_Figueira, Rui Pinto, Marco Chaud, Joao Carvalho, Heitor Moreno Junior, Helder Mota_Filipe. Anti_inflammatory effect of lycopene on carrageenan_induced paw edema and hepatic ischemia_reperfusion in the rat. *British Journal of Nutrition*. 2009 2009 Jul;102(1):126_33.

Isabel A. Ribeiro, João Rocha, Bruno Sepodes, Helder Mota_Filipe, Maria H. Ribeiro. Effect of naringin enzymatic hydrolysis towards naringenin on the anti inflammatory activity of both compounds. *Journal of Molecular Catalysis B: Enzymatic*. 2008; 52_53:13_18

Projects

Memberships

Portuguese Board of Pharmacists

European Association for Clinical Pharmacology and Therapeutics (EACPT)

European Shock Society

Inflammation Research Association

Portuguese Society of Pharmacology

Portuguese Society of Pharmaceutical Sciences

Portuguese Society of Laboratory Animals Research

Other Relevant Information