

# CURRICULUM VITAE

Gustavo Ferreira Alves

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## Formal Education

### 2019 - 2023

- PhD in Pharmaceutical and Biomolecular Sciences – cycle XXXV.
- University of Turin (Università degli studi di Torino - UniTO) - Turin, Italy.
- Thesis' title: New pharmacological strategies to counteract the major inflammatory triggers of organ injury in cardiovascular diseases
- Supervisor: Massimo Collino

### 2019 - 2023

- PhD in Pharmacology.
- Federal University of Santa Catarina (Universidade Federal de Santa Catarina - UFSC), Florianópolis, Brazil.
- Thesis' title: New pharmacological strategies to counteract the major inflammatory triggers of organ injury in cardiovascular diseases
- Supervisor: Daniel Fernandes

### 2017 - 2019

- Master's Degree in Pharmacology.
- Federal University of Santa Catarina (Universidade Federal de Santa Catarina – UFSC), Florianópolis, Brazil.
- Thesis' title: Effects of phosphodiesterase-4 inhibition on cardiovascular and inflammatory parameters during sepsis.
- Supervisor: Daniel Fernandes

### 2015 - 2016

- Internship in the cardiovascular pharmacology laboratory.
- State University of Ponta Grossa (Universidade Estadual de Ponta Grossa - UEPG), Ponta Grossa, Brazil.
- Supervisor: Daniel Fernandes

### 2012 - 2016

- Graduation in Pharmacy.
- State University of Ponta Grossa (Universidade Estadual de Ponta Grossa - UEPG), Ponta Grossa, Brazil.
- Thesis' title: Effect of sildenafil on changes in renal blood flow induced by sepsis.
- Supervisor: Daniel Fernandes

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## SCIENTIFIC SOCIETIES

Società italiana di Farmacologia(SIF)

Società italiana di Diabetologia (SID)

The International Union of Basic and Clinical Pharmacology (IUPHAR)

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## LIST OF PUBLICATIONS

### *Metrics:*

(16) *Articles Published in Scientific Journals*

(6) *H-Index (Web of Science/Scopus)*

(115) *Sum of Times Cited*

1. **Alves, Gustavo Ferreira**, Stoppa I, Aimaretti E, Monge C, Mastrocola R, Porchietto E, Einaudi G, Collotta D, Bertocchi I, Boggio E, Gigliotti CL, Clemente N, Aragno M, Fernandes D, Cifani C, Thiemermann C, Dianzani C, Dianzani U, Collino M. ICOS-Fc as innovative immunomodulatory approach to counteract inflammation and organ injury in sepsis. *Front Immunol.* 2022 Sep 2;13:992614. doi: 10.3389/fimmu.2022.992614.
2. **Alves, Gustavo Ferreira**, Aimaretti E, Einaudi G, Mastrocola R, de Oliveira JG, Collotta D, Porchietto E, Aragno M, Cifani C, Sordi R, Thiemermann C, Fernandes D, Collino M. Pharmacological Inhibition of FAK-Pyk2 Pathway Protects Against Organ Damage and Prolongs the Survival of Septic Mice. *Front Immunol.* 2022 Feb 1;13:837180. doi: 10.3389/fimmu.2022.837180.
3. Mohammad S, O'Riordan CE, Verra C, Aimaretti E, **Alves, Gustavo Ferreira**, Dreisch K, Evenäs J, Gena P, Tesse A, Rützler M, Collino M, Calamita G, Thiemermann C. RG100204, A Novel Aquaporin-9 Inhibitor, Reduces Septic Cardiomyopathy and Multiple Organ Failure in Murine Sepsis. *Front Immunol.* 2022 Jun 14;13:900906. doi: 10.3389/fimmu.2022.900906.
4. Patel NM, Collotta D, Aimaretti E, **Alves, Gustavo Ferreira**, Kröller S, Coldewey SM, Collino M, Thiemermann C. Inhibition of the JAK/STAT Pathway with Baricitinib Reduces the Multiple Organ Dysfunction Caused by Hemorrhagic Shock in Rats. *Ann Surg.* 2022 Jul 15. doi: 10.1097/SLA.0000000000005571.
5. Mastrocola R, Aimaretti E, **Alves, Gustavo Ferreira**, Cento AS, Fornelli C, Dal Bello F, Ferraris C, Goitre L, Perrelli A, Retta SF. Heterozygous Loss of KRIT1 in Mice Affects Metabolic Functions of the Liver, Promoting Hepatic Oxidative and Glycative Stress. *Int J Mol Sci.* 2022 Sep 22;23(19):11151. doi: 10.3390/ijms231911151.
6. Patel NM, Yamada N, Oliveira FRMB, Stiehler L, Zechendorf E, Hinkelmann D, Kraemer S, Stoppe C, Collino M, Collotta D, **Alves, Gustavo Ferreira**, Ramos HP, Sordi R, Marzi I, Relja B, Marx G, Martin L, Thiemermann C. Inhibition of Macrophage Migration Inhibitory

- Factor Activity Attenuates Haemorrhagic Shock-Induced Multiple Organ Dysfunction in Rats. *Front Immunol.* 2022 Apr 6;13:886421. doi: 10.3389/fimmu.2022.886421.
7. Mohammad S, Al Zoubi S, Collotta D, Krieg N, Wissuwa B, **Alves, Gustavo Ferreira**, Purvis GSD, Norata GD, Baragetti A, Catapano AL, Solito E, Zechendorf E, Schürholz T, Correa-Vargas W, Brandenburg K, Coldewey SM, Collino M, Yaqoob MM, Martin L, Thiemermann C. A Synthetic Peptide Designed to Neutralize Lipopolysaccharides Attenuates Metaflammation and Diet-Induced Metabolic Derangements in Mice. *Front Immunol.* 2021 Jul 19;12:701275. doi: 10.3389/fimmu.2021.701275.
  8. Patel NM, Oliveira FRMB, Ramos HP, Aimaretti E, **Alves, Gustavo Ferreira**, Coldewey SM, Collino M, Sordi R, Thiemermann C. Inhibition of Bruton's Tyrosine Kinase Activity Attenuates Hemorrhagic Shock-Induced Multiple Organ Dysfunction in Rats. *Ann Surg.* 2021 Dec 27. doi: 10.1097/SLA.0000000000005357.
  9. Pinto JMO, Leão AF, **Alves, Gustavo Ferreira**, Mendes C, França MT, Fernandes D, Stulzer HK. New supersaturating drug delivery system as strategy to improve apparent solubility of candesartan cilexetil in biorelevant medium. *Pharm Dev Technol.* 2020 Jan;25(1):89-99. doi: 10.1080/10837450.2019.1675171
  10. Collotta D, Hull W, Mastrocola R, Chiazza F, Cento AS, Murphy C, Verta R, **Alves, Gustavo Ferreira**, Gaudioso G, Fava F, Yaqoob M, Aragno M, Tuohy K, Thiemermann C, Collino M. Baricitinib counteracts metaflammation, thus protecting against diet-induced metabolic abnormalities in mice. *Mol Metab.* 2020 Sep;39:101009. doi: 10.1016/j.molmet.2020.101009.
  11. Penna C, Aragno M, Cento AS, Femminò S, Russo I, Bello FD, Chiazza F, Collotta D, **Alves, Gustavo Ferreira**, Bertinaria M, Zicola E, Mercurio V, Medana C, Collino M, Pagliaro P. Ticagrelor Conditioning Effects Are Not Additive to Cardioprotection Induced by Direct NLRP3 Inflammasome Inhibition: Role of RISK, NLRP3, and Redox Cascades. *Oxid Med Cell Longev.* 2020 Aug 3;2020:9219825. doi: 10.1155/2020/9219825.
  12. Mastrocola R, Collotta D, Gaudioso G, Le Berre M, Cento AS, **Alves, Gustavo Ferreira**, Chiazza F, Verta R, Bertocchi I, Manig F, Hellwig M, Fava F, Cifani C, Aragno M, Henle T, Joshi L, Tuohy K, Collino M. Effects of Exogenous Dietary Advanced Glycation End Products on the Cross-Talk Mechanisms Linking Microbiota to Metabolic Inflammation. *Nutrients.* 2020 Aug 19;12(9):2497. doi: 10.3390/nu12092497.
  13. O'Riordan CE, Purvis GSD, Collotta D, Krieg N, Wissuwa B, Sheikh MH, **Alves, Gustavo Ferreira**, Mohammad S, Callender LA, Coldewey SM, Collino M, Greaves DR, Thiemermann C. X-Linked Immunodeficient Mice With No Functional Bruton's Tyrosine Kinase Are Protected From Sepsis-Induced Multiple Organ Failure. *Front Immunol.* 2020 Oct 7;11:581758. doi: 10.3389/fimmu.2020.581758.
  14. Olchanheski LR Jr, Sordi R, Oliveira JG, **Alves, Gustavo Ferreira**, Mendes RT, Santos FA, Fernandes D. The role of potassium channels in the endothelial dysfunction induced by periodontitis. *J Appl Oral Sci.* 2018 Oct 4;26:e20180048. doi: 10.1590/1678-7757-2018-0048.

15. Kovalski V, Prestes AP, Oliveira JG, **Alves, Gustavo Ferreira**, Colarites DF, Mattos JE, Sordi R, Velloso JC, Fernandes D. Protective role of cGMP in early sepsis. *Eur J Pharmacol*. 2017 Jul 15;807:174-181. doi: 10.1016/j.ejphar.2017.05.012.
16. Prestes AP, Machado WM, Oliveira JG, Olchanheski LR Jr, Santos FA, **Alves, Gustavo Ferreira**, Prudente AS, Otuki MF, Paludo KS, Sordi R, Fernandes D. Experimental periodontitis in rats potentiates inflammation at a distant site: Role of B1 kinin receptor. *Life Sci*. 2018 Feb 1;194:40-48. doi: 10.1016/j.lfs.2017.12.011.

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## Published Proceedings (Conference abstracts)

### *Metrics:*

**(10) Published Proceeding in scientific journals (Conference abstracts) presented as posters or oral communication in scientific events (Conferences/Congresses/Symposia).**

1. **Alves, Gustavo Ferreira**; Stoppa, Ian; Aimaretti, Eleonora; Monge, Chiara; Murzio, Carlo; Mastrocola, Raffaella; Porchietto, Elisa; Einaudi, Giacomo; Collotta, Debora; Bertocchi, Ilaria; Boggio, Elena; Gigliotti, Casimiro Luca; Clemente, Nausicaa; Aragno, Manuela; Fernandes, Daniel; Thiemermann, Christoph; Cifani, Carlo; Dianzani, Chiara; Dianzani, Umberto; Collino, Massimo. **ICOS-Fc as innovative immunomodulatory approach to counteract inflammation and organ injury in sepsis**. *Pharmadvances*. Volume 5, special issue 2023, Conference Abstract (*41st SIF National Congress*), page 241. DOI: 10.36118/pharmadvances.2023.50
2. **Alves, Gustavo Ferreira**; Aimaretti, Eleonora; Einaudi, Giacomo; Mastrocola, Raffaella; Garcia de Oliveira, Junior; Collotta, Debora; Porchietto, Elisa; Aragno, Manuela; Cifani, Carlo; Sordi, Regina; Thiemermann, Christoph; Fernandes, Daniel; Collino, Massimo. **Hyper-Inflammation And Survival Of Septic Mice Are Improved Through Pharmacological Inhibition Of The Fak-Pyk2 Axis**. *Pharmadvances*. Volume 4, special issue, 2022, Conference Abstract (*15th World Congress on Inflammation*), page 14. DOI: 10.36118/pharmadvances.2022.38
3. Murzio, Carlo; **Alves, Gustavo Ferreira**; Penna, Fabio; Aimaretti, Eleonora; Einaudi, Giacomo; Collotta, Debora; Porchietto, Elisa; Aragno, Manuela; Cifani, Carlo; Collino, Massimo. **Bet Inhibitor JQ1 Counteracts Hyperinflammatory Response And Protects Septic Mice From Organ Damage**. *Pharmadvances*. Volume 4, special issue, 2022, Conference Abstract (*15th World Congress on Inflammation*), page 28. DOI: 10.36118/pharmadvances.2022.38
4. Porchietto, Elisa; Fornelli, Claudia; Mastrocola, Raffaella; **Alves, Gustavo Ferreira**; Aimaretti, Eleonora; Einaudi, Giacomo; Murzio, Carlo; Collotta, Debora; Aragno, Manuela; Cifani, Carlo; Penna, Fabio; Collino, Massimo. **An In Vivo Study On The Effects Of BRD4 Pharmacological Targeting Against Diet-induced Metaflammation**. *Pharmadvances*. Volume 4, special issue, 2022, Conference Abstract (*15th World Congress on Inflammation*), page 29. DOI: 10.36118/pharmadvances.2022.38
5. Aimaretti, Eleonora; Murzio, Carlo; **Alves, Gustavo Ferreira**; Einaudi, Giacomo; Collotta, Debora; Porchietto, Elisa; Cifani, Carlo; Algeri, Alessandro; Aragno, Manuela; Collino, Massimo; Mastrocola, Raffaella. **Anti-inflammatory and anti-glycative properties of zinc-**

**enriched spirulina in diet-induced obese/diabetic mice.** Free Radical Biology and Medicine. Volume 192, 2022, Meeting Abstract. DOI: 10.1016/j.freeradbiomed.2022.10.152

6. **Alves, Gustavo Ferreira**; Aimaretti, Eleonora; Einaudi, Giacomo; Mastrocola, Raffaella; Garcia de Oliveira, Junior; Collotta, Debora; Aragno, Manuela; Thiemermann, Christoph; Fernandes, Daniel; Collino, Massimo. **Inhibition Of Fak-Pyk2 Pathway Protects Against Organ Damage And Prolongs The Survival Of Septic Mice** Volume 3, special issue 2021, Conference Abstract (*Immunopharmacology Meeting - SIF*), page 18. DOI: 10.36118/pharmadvances.2021.17
7. Collotta, Debora; Hull, William; Mastrocola, Raffaella; Aimaretti, Eleonora; Chiazza, Fausto; Cento, Alessia Sofia; Verta, Roberta; **Alves, Gustavo Ferreira**; Gaudio, Giulia, Fava, Francesca; Aragno, Manuela; Tuohy, Kieran; Thiemermann, Christoph, Collino, Massimo. **Potential Repositioning Of Baricitinib For Preventing Diet-Induced Metabolic Abnormalities: An In-Vivo Study.** Volume 3, special issue 2021, Conference Abstract (*Immunopharmacology Meeting - SIF*), page 12. DOI: 10.36118/pharmadvances.2021.17
8. Einaudi, Giacomo; **Alves, Gustavo Ferreira**; Collotta, Debora; Mastrocola, Raffaella; Penna, Fabio; Fornelli, Claudia; Aimaretti, Eleonora; Aragno, Manuela; Bertinaria, Massimo; Cifani, Carlo; Collino, Massimo. **Pharmacological Targeting Of Cyclooxygenase To Counteract Metaflammation In An In-Vivo Model Of Diet-Induced Metabolic Derangements.** Volume 3, special issue 2021, Conference Abstract (*Immunopharmacology Meeting - SIF*), page 16. DOI: 10.36118/pharmadvances.2021.17
9. Collotta, Debora; Purvis, Gareth; Aranda-Tavio, Haidee; Chiazza, Fausto; O’Riordan, Caroline; Zeboudj, Lynda; Mohammad, Shireen; Verta, Roberta; **Alves, Gustavo Ferreira**; Guisot, Nicolas;; Aragno, Bunyard, Peter; Yaqoob, Magdi; Greaves, David; Thiemermann, Christoph; Collino, Massimo. **Inhibition Of Bruton’s Tyrosine Kinase Regulates Macrophage NF-kB and NLRP3 Inflammasome Activation In Metabolic Inflammation.** Volume 3, n 1, 2021, Conference Abstract (*40th Congress of the Italian Pharmacological Society - SIF*). DOI: 10.36118/pharmadvances.03.2021.01
10. Collotta, Debora; Hull, William; Mastrocola, Raffaella; Aimaretti, Eleonora; Chiazza, Fausto; Cento, Alessia Sofia; Murphy, Catherine; Verta, Roberta; **Alves, Gustavo Ferreira**; Gaudio, Giulia, Fava, Francesca; Aragno, Manuela; Tuohy, Kieran; Thiemermann, Christoph; Collino, Massimo. **Baricitinib Counteracts Metaflammation Thus Protecting Against Diet-Induced Metabolic Abnormalities In Mice.** Volume 3, n 1, 2021, Conference Abstract (*40th Congress of the Italian Pharmacological Society - SIF*). DOI: 10.36118/pharmadvances.03.2021.01

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#### Participation in Conferences/Summer schools (Oral/Poster communication)

##### *Metrics:*

*(6) Congresses*

*(1) Immunopharmacology meeting*

*(4) Summer/Winter schools*

*(8) Poster presentations*

*(3) Oral communications*

(Nov - 2022) 41° Congresso Nazionale della Società Italiana di Farmacologia - Il Valore Scientifico e L'uso Appropriato Del Farmaco – Roma, Italy

- **Oral communication:** Alves, Gustavo Ferreira; Stoppa, Ian; Aimaretti, Eleonora; Monge, Chiara; Murzio, Carlo; Mastrocola, Raffaella; Porchietto, Elisa; Einaudi, Giacomo; Collotta, Debora; Bertocchi, Ilaria; Boggio, Elena; Gigliotti, Casimiro Luca; Clemente, Nausicaa; Aragno, Manuela; Fernandes, Daniel; Thiernemann, Christoph; Cifani, Carlo; Dianzani, Chiara; Dianzani, Umberto; Collino, Massimo. **ICOS-Fc as innovative immunomodulatory approach to counteract inflammation and organ injury in sepsis.** *Pharmadvances*. Volume 5, special issue 2023, Conference Abstract (41st SIF National Congress), page 241. DOI: 10.36118/pharmadvances.2023.50
- **Poster presentation:** Alves, Gustavo Ferreira; Oliveira, Junior Garcia; Nakashima, Marcelo Almeida; Delfrate, Gabrielle; Assreuy, Jamil; Da Silva-Santos, José Eduardo; Collino, Massimo; Fernandes, Daniel. **Effects of PDE-4 inhibition on cardiovascular and inflammatory abnormalities triggered by sepsis**

(Oct - 2022) 29° Congresso Nazionale della Società Italiana di Diabetologia (SID) – Rimini, Italy

- **Oral communication:** Alves, Gustavo Ferreira; Collotta, Debora; Aimaretti, Eleonora; Hull, William; Mastrocola, Raffaella; Chiazza, Fausto; Cento, Alessia; Murphy, Catherine; Verta, Roberta; Gaudio, Giulia; Fava, Francesca; Yaqoob, Magdi; Aragno, Manuela; Tuohy, Kieran; Patel, Nikita; Kröller, Sarah; Coldewey, Sina; Thiernemann, Christoph; Collino, Massimo. **Effects of pharmacological modulation of the JAK/STAT pro-inflammatory pathway in experimental models of cardiometabolic disease**

(Oct - 2022) 54th Brazilian Congress of Pharmacology and Experimental Therapeutics - Florianópolis – SC – BR – Virtual format.

- **Poster presentation:** Alves, Gustavo Ferreira; Aimaretti, Eleonora; Einaudi, Giacomo; Mastrocola, Raffaella; Garcia de Oliveira, Junior; Collotta, Debora; Porchietto, Elisa; Aragno, Manuela; Cifani, Carlo; Sordi, Regina; Thiernemann, Christoph; Fernandes, Daniel; Collino, Massimo. **Pharmacological Inhibition of FAK-Pyk2 Pathway Protects Against the Hyper-Inflammatory State in Sepsis and Prolongs Mice Survival.**

(June - 2022) 15th World Congress on Inflammation (WCI), Rome - Italy.

- **Oral communication:** Alves, Gustavo Ferreira; Aimaretti, Eleonora; Einaudi, Giacomo; Mastrocola, Raffaella; Garcia de Oliveira, Junior; Collotta, Debora; Porchietto, Elisa; Aragno, Manuela; Cifani, Carlo; Sordi, Regina; Thiernemann, Christoph; Fernandes, Daniel; Collino, Massimo. **Hyper-Inflammation And Survival Of Septic Mice Are Improved Through Pharmacological Inhibition Of The Fak-Pyk2 Axis.** *Pharmadvances*. Volume 4, special issue, 2022, Conference Abstract (15th World Congress on Inflammation), page 14. DOI: 10.36118/pharmadvances.2022.38
- **Poster presentation:** Murzio, Carlo; Alves, Gustavo Ferreira; Penna, Fabio; Aimaretti, Eleonora; Einaudi, Giacomo; Collotta, Debora; Porchietto, Elisa; Aragno, Manuela; Cifani, Carlo; Collino, Massimo. **Bet Inhibitor JQ1 Counteracts Hyperinflammatory Response And Protects Septic Mice From Organ Damage.** *Pharmadvances*. Volume 4, special issue, 2022, Conference Abstract (15th World Congress on Inflammation), page 28. DOI:

(Nov - 2021) **Recenti Sviluppi in Immunofarmacologia - 1° Meeting del GdL Immunofarmacologia della SIF (Società Italiana di Farmacologia).**

- **Poster Presentation:** Alves, Gustavo Ferreira; Aimaretti, Eleonora; Einaudi, Giacomo; Mastrocola, Raffaella; Garcia de Oliveira, Junior; Collotta, Debora; Aragno, Manuela; Thiernemann, Christoph; Fernandes, Daniel; Collino, Massimo. ***Inhibition Of Fak-Pyk2 Pathway Protects Against Organ Damage And Prolongs The Survival Of Septic Mice*** Volume 3, special issue 2021, Conference Abstract (Immunopharmacology Meeting - SIF), page 18. DOI: 10.36118/pharmadvances.2021.17

(Oct - 2021) **Summer School – The skin barrier – University of Copenhagen, Hornbæk, Denmark. (72 h).**

- **Poster presentation:** Alves, Gustavo Ferreira; Collotta, Debora; Aimaretti, Eleonora; Mastrocola, Raffaella; Aragno, Manuela; Cepas, Vanesa; Manig, Friederike; Hellwig, Michael; Henle, Thomas; Sainz, Rosa; Collino, Massimo. ***Assessment of the Cytotoxic Impact of Different Glycation Products in Human Keratinocytes.***

(May – 2021) **International Summer School in Microbiota, Immunity, and Neurons: Decoding functional and molecular host–microbiota communication IN the GUT – MINDinGUT – (16 h). Virtually - Padova – Italy.**

(March - 2021) **Virtual Summer School - Exploring Pathways to Impact training – EIT FOOD – (40 h)**

(March - 2021) **40° Congresso Nazionale della Societa' Italiana di Farmacologia - Il Valore Scientifico e L'uso Appropriato del Farmaco.**

- **Poster presentation:** Alves, Gustavo Ferreira; Collotta, Debora; Aimaretti, Eleonora; Mastrocola, Raffaella; Aragno, Manuela; Manig, Friederike; Pietz, Franziska; Schueth, Louisa; Henle, Thomas; Hellwing, Michael; Collino, Massimo. ***Impact of dietary intake of Advanced Glycation End Products on salivary inflammatory profiling***
- **Poster presentation:** Alves, Gustavo Ferreira; Collotta, Debora; Einaudi, Giacomo; Adina Boşca, Bianca; Crişan, Maria; Băbţan, Anida-Maria; Feurdean, Claudia Nicoleta, Petrescu, Nausica Bianca; Uriciuc, Willi Andrei; Pârvu, Alina; Uifălean, Ana; Cosmina, Bondor; Cifani, Carlo; Ilea, Aranka; Collino, Massimo. ***Salivary inflammatory profile in obese vs non-obese subjects.***
- **Poster presentation:** Collotta, Debora; Purvis, Gareth; Aranda-Tavio, Haidee; Chiazza, Fausto; O’Riordan, Caroline; Zeboudj, Lynda; Mohammad, Shireen; Verta, Roberta; Alves, Gustavo Ferreira; Guisot, Nicolas;; Aragno, Bunyard, Peter; Yaqoob, Magdi; Greaves, David; Thiernemann, Christoph; Collino, Massimo. ***Inhibition Of Bruton’s Tyrosine Kinase Regulates Macrophage NF-kB and NLRP3 Inflammasome Activation In Metabolic Inflammation.*** Volume 3, n 1, 2021, Conference Abstract (40th Congress of the Italian Pharmacological Society - SIF). DOI: 10.36118/pharmadvances.03.2021.01

(Oct - 2018) 50th Brazilian Congress of Pharmacology and Experimental Therapeutics (SBFTE). Ribeirão Preto – SP, Brazil.

- **Poster presentation:** Alves, Gustavo Ferreira; Oliveira, Junior Garcia; Nakashima, Marcelo Almeida; Assreuy, Jamil; Da Silva-Santos, José Eduardo; Fernandes, Daniel. *Effects of PDE-4 Inhibition on Cardiovascular and Inflammatory Changes Induced by Sepsis.*

(July – 2015) Winter school in Pharmacology. Federal University of Santa Catarina (UFSC), Florianópolis, Brazil (44 h).

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### Co-authorship in Conference abstracts

#### *Metrics:*

(18) *Co-authorship in Conference abstracts presented as posters or oral communication in scientific events (Conferences/Congresses/Symposia).*

1. Mariot, Luana Nunes; Queiroz, Letícia Yoshitome; Delfrate, Gabrielle; Alves, Gustavo Ferreira; Sordi, Regina. **Standardization of The Experimental Cecal Slurry Model In Aged Swiss Mice For The Study of Renal Dysfunction Associated With Sepsis.** *XXVII Brazilian Symposium on Cardiovascular Physiology*, Florianópolis, 2023.
2. Rützler, Michael; Mohammad, Shireen; O’Riordan, Caroline; Verra, Chiara; Aimaretti, Eleonora; Alves, Gustavo Ferreira; Dreisch, Klaus; Evenäs, Johan; Gena, Patrizia; Tesse, Angela; Collino, Massimo; Calamita, Giuseppe, Thiemermann, Christoph. **The Aquaporin-9 Inhibitor RG100204 Reduces Septic Cardiomyopathy and Multiple Organ Failure in Murine Sepsis;** *Benzon Symposium No. 66 - Aquaporin 2022: Aquaporins In Health And Disease*, Copenhagen, 2022.
3. Porchietto, Elisa; Aimaretti, Eleonora; Alves, Gustavo Ferreira; Murzio, Carlo; Einaudi, Giacomo; Collotta, Debora; Rubeo, Chiara; Mastrocola, Raffaella; Aragno, Manuela; Cifani, Carlo; Collino, Massimo. **Pharmacological Inhibition of Casein Kinase 2 (CK2) Protects Against Diet- Induced Metabolic Derangements In Mice.** *41st Congresso Nazionale della Società Italiana di Farmacologia (SIF)*, Rome, 2022.
4. Aimaretti, Eleonora; Porchietto, Elisa; Alves, Gustavo Ferreira; Murzio, Carlo; Collotta, Debora; Rubeo, Chiara; Einaudi, Giacomo; Mastrocola, Raffaella; Cifani, Carlo; Aragno, Manuela; Collino, Massimo. **Potential Repurposing of Fostamatinib In Diet-Induced Metabolic Disease: An In Vivo Study.** *41st Congresso Nazionale della Società Italiana di Farmacologia (SIF)*, Rome, 2022.
5. Aimaretti, Eleonora; Porchietto, Elisa; Alves, Gustavo Ferreira; Mastrocola, Raffaella; Algeri, Alessandro; Rubeo, Chiara; Einaudi, Giacomo; Collotta, Debora; Cifani, Carlo; Aragno, Manuela; Collino, Massimo. **The Potential Role of Zn-Spirulina Platensis In Counteracting Advanced Glycation End Products Harmful Effects In A Murine Model Of Metabolic Derangement.** *41st Congresso Nazionale della Società Italiana di Farmacologia (SIF)*, Rome, 2022.

6. Collotta, Debora; Mastrocola, Raffaella; El-Masri, Fidèle; **Alves, Gustavo Ferreira**; Aimaretti, Eleonora; Aragno, Manuela; Frank, Jan; Collino, Massimo. **Protective effects of prebiotic fructooligosaccharides supplementation in counteracting metabolic derangements evoked by chronic exposure to sugars (fructose versus galactose).** *41st Congresso Nazionale della Società Italiana di Farmacologia (SIF), Rome, 2022.*
7. Einaudi, Giacomo; **Alves, Gustavo Ferreira**; Aimaretti, Eleonora; Collotta, Debora; Porchietto, Elisa; Mastrocola, Raffaella; Fornelli, Claudia; Cifani, Carlo; Aragno, Manuela; Penna, Fabio; Bertinaria, Massimo; Collino, Massimo. **Anti-inflammatory treatment with etodolac restores local insulin signalling and hormonal profile in a mice model of diet-induced metabolic derangements.** *41st Congresso Nazionale della Società Italiana di Farmacologia (SIF), Rome, 2022.*
8. Collotta, Debora; Hull, William; Mastrocola, Raffaella; Chiazza, Fausto; Cento, Alessia Sofia; Murphy, Catherine; Verta, Roberta; **Alves, Gustavo Ferreira**; Gaudio, Giulia, Fava, Francesca; Aragno, Manuela; Tuohy, Kieran; Thiemermann, Christoph; Collino, Massimo. **Baricitinib counteracts metaflammation thus protecting against diet-induced metabolic abnormalities in mice.** *15th World Congress on Inflammation (WCI), Rome, 2022.*
9. Einaudi, Giacomo; **Alves, Gustavo Ferreira**; Collotta, Debora; Bertinaria, Massimo; Aimaretti, Eleonora; Fornelli, Claudia; Mastrocola, Raffaella; Cifani, Carlo; Aragno, Manuela; Penna, Fabio; Collino, Massimo. **Beneficial effects of the pharmacological modulation of metaflammation by etodolac in an in-vivo model of diet-induced metabolic derangements.** *15th World Congress on Inflammation (WCI), Rome, 2022.*
10. Rubeo, Chiara; Aimaretti, Eleonora; Hahmeyer da Silveira, Maria Luísa; Einaudi, Giacomo; Porchietto, Elisa; Collotta, Debora; Murzio, Carlo; Mastrocola, Raffaella; Aragno, Manuela; Cifani, Carlo; Da Silva-Santos, José Eduardo; Fernandes, Daniel Fernandes; Collino, Massimo. **Casein Kinase 2 as new pharmacological target to counteract cardiovascular dysfunction and mortality evoked by sepsis in mice.** *15th World Congress on Inflammation (WCI), Rome, 2022.*
11. Einaudi, Giacomo; **Alves, Gustavo Ferreira**; Collotta, Debora; Mulè, Barbara; Baratta, Francesca; Zonari, Daniele; Cifani, Carlo; Fleisher-Berkovich, Sigal; Ben-Shabat, Shimon; Brusa, Paola; Collino, Massimo. **Effects of cannabidiol and angiotensin-II receptor antagonists on LPS-induced neuroinflammatory responses in BV2 microglial cells.** *40° Congresso Nazionale della Società Italiana di Farmacologia (SIF), Virtual Congress, 2021.*
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14. Oliveira, Junior Garcia; Sordi, Regina; Oliveira, Marcia Regina Paes; **Alves, Gustavo Ferreira**; Fernandes, Daniel. **Amelioration Of Sepsis by Inhibition Of Phosphodiesterase 3.** *50th Brazilian Congress of Pharmacology and Experimental Therapeutics (SBFTE)*, Ribeirão Preto - SP. SBFTE annals., 2018.
15. Sordi, Regina; Bojko, Luana; Moreno, Lucas; **Alves, Gustavo Ferreira**; Fernandes, Daniel; Gomes, José Rosa. **Doxycycline reduces multiple organ failure associated with hemorrhagic shock.** *Federação de Sociedades de Biologia Experimental (FeSBE)*, Campos do Jordão - SP. FeSBE annals., 2017. v.32. p.1 – 1.
16. Fernandes, Daniel; Kovalski, Vanessa; Oliveira, Junior Garcia; **Alves, Gustavo Ferreira**; Colarites, Daiandra; Mattos, Jheniffer Ellen; Sordi, Regina; Velloso, José Carlos Rebuglio. **Protective Role Of cGMP In Early Sepsis.** *Federação De Sociedades De Biologia Experimental (FeSBE)*, 2017, Campos do Jordão - SP. *FeSBE annals.*, 2017. v.32. p.1 – 1.
17. Sordi, Regina; **Alves, Gustavo Ferreira**; Paiva, N. H.; Velloso, José Carlos Rebuglio; Santos, Fabio André; Gomes, José Rosa. **Evaluation Of Cardiovascular And Renal Parameters In A Recovery Model of Hemorrhagic Shock.** *21st Latin American Congress of Pharmacology*, Foz do Iguaçu, 2016.
18. Oliveira, Junior Garcia; Kovalski, Vanessa; Prestes, Ana Paula; **Alves, Gustavo Ferreira**; Colarites, Daiandra; Mattos, Jheniffer Ellen; Velloso, José Carlos Rebuglio; Fernandes, Daniel. **Role of CGMP in early sepsis.** *21st Latin American Congress of Pharmacology*, Foz do Iguaçu, 2016.

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## Languages

Upper Intermediate level of written and spoken English

Lower Intermediate level of written and spoken Italian

Fluent in written and spoken Portuguese

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## Technical skills and competences

### *In vivo experiments*

I have gained experience in several *in vivo* experimental models (rats and mice), mainly the sepsis model so-called CLP (cecal ligation and puncture), the experimental model of periodontitis (ligation-induced periodontitis), paw edema; invasive procedure for the assessment of blood pressure and renal blood flow (laser Doppler), as well as animal models of metabolic disease induced by high fat diet.

### *Ex vivo experiments*

Isolated organ system (thoracic aorta, superior mesenteric artery and isolated and perfused heart - Langendorff).

### *In vitro experiments*

Microbiological, hematological, biochemical, cell culture and colorimetric assays.

***Molecular biology***

Western blotting, immunohistochemistry/fluorescence, rt-PCR and ELISA.

***Software***

Advance proficiency of Office (Excel, Word, Power Point, Publisher), GraphPad Prism, ImageLab, LabChart.

Il sottoscritto Gustavo Ferreira Alves, sotto la propria responsabilità, e consapevole delle sanzioni penali a carico in caso di dichiarazioni mendaci o di esibizione e produzione di atti falsi o contenenti dati non più rispondenti a verità, **ai sensi degli artt. 19 e 47 del D.P.R. n. 445/2000,**

**DICHIARA**

che quanto riportato nel curriculum corrisponde a verità.

**Luogo e data:** Torino, 21/04/2023