

Complete list of publications

1. Alvarez TM, Liberato MV, Cairo JP, Paixão DA, Campos BM, **Ferreira MR**, Almeida RF, Pereira IO, Bernardes A, Ematsu GC, Chinaglia M, Polikarpov I, de Oliveira Neto M, Squina FM. *A Novel Member of GH16 Family Derived from Sugarcane Soil Metagenome*. Appl Biochem Biotechnol. 2015 Sep;177(2):304-17. doi: [10.1007/s12010-015-1743-7](https://doi.org/10.1007/s12010-015-1743-7). Epub 2015 Aug 5. PMID: 26242386.
2. Bezerra F, **Ferreira MR**, Fontes GN, da Costa Fernandes CJ, Andia DC, Cruz NC, da Silva RA, Zambuzzi WF. *Nano hydroxyapatite-blasted titanium surface affects pre-osteoblast morphology by modulating critical intracellular pathways*. Biotechnol Bioeng. 2017 Aug;114(8):1888-1898. doi: [10.1002/bit.26310](https://doi.org/10.1002/bit.26310). Epub 2017 Jun 7. PMID: 28401535.
3. Fernandes CJC, Bezerra F, **Ferreira MR**, Andrade AFC, Pinto TS, Zambuzzi WF. *Nano hydroxyapatite-blasted titanium surface creates a biointerface able to govern Src-dependent osteoblast metabolism as prerequisite to ECM remodeling*. Colloids Surf B Biointerfaces. 2018 Mar 1;163:321-328. doi: [10.1016/j.colsurfb.2017.12.049](https://doi.org/10.1016/j.colsurfb.2017.12.049). Epub 2017 Dec 28. PMID: 29329077.
4. da Costa Fernandes CJ, **Ferreira MR**, Bezerra FJB, Zambuzzi WF. *Zirconia stimulates ECM-remodeling as a prerequisite to pre-osteoblast adhesion/proliferation by possible interference with cellular anchorage*. J Mater Sci Mater Med. 2018 Mar 26;29(4):41. doi: [10.1007/s10856-018-6041-9](https://doi.org/10.1007/s10856-018-6041-9). PMID: 29582191.
5. da Silva RA, de Camargo Andrade AF, da Silva Feltran G, Fernandes CJDC, de Assis RIF, **Ferreira MR**, Andia DC, Zambuzzi WF. *The role of triiodothyronine hormone and mechanically-stressed endothelial cell paracrine signalling synergism in gene reprogramming during hBMSC-stimulated osteogenic phenotype in vitro*. Mol Cell Endocrinol. 2018 Dec 15;478:151-167. doi: [10.1016/j.mce.2018.08.008](https://doi.org/10.1016/j.mce.2018.08.008). Epub 2018 Aug 22. PMID: 30142372.
6. da Silva Feltran G, da Costa Fernandes CJ, **Rodrigues Ferreira M**, Kang HR, de Carvalho Bovolato AL, de Assis Golin M, Deffune E, Koh IHJ, Constantino VRL, Zambuzzi WF. *Sonic hedgehog drives layered double hydroxides-induced acute inflammatory landscape*. Colloids Surf B Biointerfaces. 2019 Feb 1;174:467-475. doi: [10.1016/j.colsurfb.2018.11.051](https://doi.org/10.1016/j.colsurfb.2018.11.051). Epub 2018 Nov 22. PMID: 30497008.

7. Machado MIP, Gomes AM, Rodrigues MF¹, Silva Pinto T, da Costa Fernandes CJ, Bezerra FJ, Zambuzzi WF. *Cobalt-chromium-enriched medium ameliorates shear-stressed endothelial cell performance*. J Trace Elem Med Biol. 2019 Jul;54:163-171. doi: [10.1016/j.jtemb.2019.04.012](https://doi.org/10.1016/j.jtemb.2019.04.012). Epub 2019 Apr 24. PMID: 31109607.
8. da S Feltran G, Bezerra F, da Costa Fernandes CJ, **Ferreira MR**, Zambuzzi WF. *Differential inflammatory landscape stimulus during titanium surfaces obtained osteogenic phenotype*. J Biomed Mater Res A. 2019 Aug;107(8):1597-1604. doi: [10.1002/jbm.a.36673](https://doi.org/10.1002/jbm.a.36673). Epub 2019 Apr 9. PMID: 30884166.
9. da Silva RA, Fuhler GM, Janmaat VT, da C Fernandes CJ, da Silva Feltran G, Oliveira FA, Matos AA, Oliveira RC, **Ferreira MR**, Zambuzzi WF, Peppelenbosch MP. *HoxA cluster gene expression during osteoblast differentiation involves epigenetic control*. Bone. 2019 Aug;125:74-86. doi: [10.1016/j.bone.2019.04.026](https://doi.org/10.1016/j.bone.2019.04.026). Epub 2019 May 1. PMID: 31054377.
10. da Silva RA, **Ferreira MR**, Gomes AM, Zambuzzi WF. *LncRNA HOTAIR is a novel endothelial mechanosensitive gene*. J Cell Physiol. 2020 May;235(5):4631-4642. doi: [10.1002/jcp.29340](https://doi.org/10.1002/jcp.29340). Epub 2019 Oct 21. PMID: 31637716.
11. Gomes OP, Feltran GS, **Ferreira MR**, Albano CS, Zambuzzi WF, Lisboa-Filho PN. *A novel BSA immobilizing manner on modified titanium surface ameliorates osteoblast performance*. Colloids Surf B Biointerfaces. 2020 Jun;190:110888. doi: [10.1016/j.colsurfb.2020.110888](https://doi.org/10.1016/j.colsurfb.2020.110888). Epub 2020 Feb 20. PMID: 32114272.
12. da Silva RA, da Silva Feltran G, **Ferreira MR**, Wood PF, Bezerra F, Zambuzzi WF. *The Impact of Bioactive Surfaces in the Early Stages of Osseointegration: An < i > In Vitro </ i > Comparative Study Evaluating the HAnano® and SLActive® Super Hydrophilic Surfaces*. Biomed Res Int. 2020 Sep 13;2020:3026893. doi: [10.1155/2020/3026893](https://doi.org/10.1155/2020/3026893). PMID: 33005686; PMCID: PMC7509554.
13. **Ferreira MR**, Milani R, Rangel EC, Peppelenbosch M, Zambuzzi W. *OsteoBLAST: Computational Routine of Global Molecular Analysis Applied to Biomaterials Development*. Front Bioeng Biotechnol. 2020 Oct 8;8:565901. doi: [10.3389/fbioe.2020.565901](https://doi.org/10.3389/fbioe.2020.565901). PMID: 33117780; PMCID: PMC7578266.
14. Assis RIF, Feltran GDS, Silva MES, Palma ICDR, Rovai ES, Miranda TB, **Ferreira MR**, Zambuzzi WF, Birbrair A, Andia DC, da Silva RA. *Non-coding RNAs repressive role in post-transcriptional processing of RUNX2 during the acquisition of the osteogenic phenotype of periodontal ligament mesenchymal stem cells*. Dev Biol. 2021 Feb;470:37-48. doi: [10.1016/j.ydbio.2020.10.012](https://doi.org/10.1016/j.ydbio.2020.10.012). Epub 2020 Nov 2. PMID: 33152274.

¹There was an error in the submission, resulting in the reversal of the surnames. Therefore, the correct name is Marcel Rodrigues Ferreira. If you wish to confirm the accuracy of this article, please consult Professor Dr. Willian Zambuzzi (w.zambuzzi@unesp.br).

15. **Ferreira MR**, Santos GA, Biagi CA, Silva Junior WA, Zambuzzi WF. *GSVA score reveals molecular signatures from transcriptomes for biomaterials comparison.* J Biomed Mater Res A. 2021 Jun;109(6):1004-1014. doi: [10.1002/jbm.a.37090](https://doi.org/10.1002/jbm.a.37090). Epub 2020 Sep 9. PMID: 32820608.
16. **Ferreira MR**, Zambuzzi WF. *Platelet microparticles load a repertory of miRNAs programmed to drive osteogenic phenotype.* J Biomed Mater Res A. 2021 Aug;109(8):1502-1511. doi: [10.1002/jbm.a.37140](https://doi.org/10.1002/jbm.a.37140). Epub 2020 Dec 10. PMID: 33258548.
17. Pinto TS, Martins BR, **Ferreira MR**, Bezerra F, Zambuzzi WF. *Nanohydroxyapatite-Blasted Bioactive Surface Drives Shear-Stressed Endothelial Cell Growth and Angiogenesis.* Biomed Res Int. 2022 Feb 23;2022:1433221. doi: [10.1155/2022/1433221](https://doi.org/10.1155/2022/1433221). PMID: 35252440; PMCID: PMC8890866.
18. Franco Cairo JPL, Mandelli F, Tramontina R, Cannella D, Paradisi A, Ciano L, **Ferreira MR**, Liberato MV, Brenelli LB, Gonçalves TA, Rodrigues GN, Alvarez TM, Mofatto LS, Carazzolle MF, Pradella JGC, Paes Leme AF, Costa-Leonardo AM, Oliveira-Neto M, Damasio A, Davies GJ, Felby C, Walton PH, Squina FM. *Oxidative cleavage of polysaccharides by a termite-derived <math>ⁱ</math>superoxide dismutase</math>* boosts the degradation of biomass by glycoside hydrolases. Green Chem. 2022 May 12;24(12):4845-4858. doi: [10.1039/d1gc04519a](https://doi.org/10.1039/d1gc04519a). PMID: 35813357; PMCID: PMC9208272.
19. da C Fernandes CJ, da Silva RAF, de Almeida GS, **Ferreira MR**, de Moraes PB, Bezerra F, Zambuzzi WF. *Epigenetic Differences Arise in Endothelial Cells Responding to Cobalt-Chromium.* J Funct Biomater. 2023 Feb 26;14(3):127. doi: [10.3390/jfb14030127](https://doi.org/10.3390/jfb14030127). PMID: 36976051; PMCID: PMC10052026.
20. Fernandes CJDC, da Silva RAF, Wood PF, **Ferreira MR**, de Almeida GS, de Moraes JF, Bezerra FJ, Zambuzzi WF. *Titanium-Enriched Medium Promotes Environment-Induced Epigenetic Machinery Changes in Human Endothelial Cells.* J Funct Biomater. 2023 Feb 27;14(3):131. doi: [10.3390/jfb14030131](https://doi.org/10.3390/jfb14030131). PMID: 36976055; PMCID: PMC10055987.
21. da Costa Fernandes CJ, **Ferreira MR**, Zambuzzi WF. *Cyclopamine targeting hedgehog modulates nuclear control of the osteoblast activity.* Cells Dev. 2023 Jun;174:203836. doi: [10.1016/j.cdev.2023.203836](https://doi.org/10.1016/j.cdev.2023.203836). Epub 2023 Mar 25. PMID: 36972848.
22. Amadeu de Oliveira F, Tokuhara CK, Veeriah V, Domezi JP, Santesso MR, Cestari TM, Ventura TMO, Matos AA, Dionísio T, **Ferreira MR**, Ortiz RC, Duarte MAH, Buzalaf MAR, Ponce JB, Sorgi CA, Faccioli LH, Buzalaf CP, de Oliveira RC. *The Multifarious Functions of Leukotrienes in Bone Metabolism.* J Bone Miner Res. 2023 Aug;38(8):1135-1153. doi: [10.1002/jbmr.4867](https://doi.org/10.1002/jbmr.4867). Epub 2023 Jun 29. PMID: 37314430.
23. Carvalho LB, Dos Santos Sanna PL, Dos Santos Afonso CC, Bondan EF, da Silva Feltran G, **Ferreira MR**, Birbrair A, Andia DC, Latini A, Fogaholi da Silva RA. *MicroRNA biogenesis machinery activation and lncRNA and REST overexpression as neuroprotective responses to fight inflammation in the hippocampus.* J Neuroimmunol. 2023

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25. de Almeida GS, **Ferreira MR**, da Costa Fernandes CJ, Suter LC, Carra MGJ, Correa DRN, Rangel EC, Saeki MJ, Zambuzzi WF. *Development of cobalt (Co)-doped monetites for bone regeneration*. J Biomed Mater Res B Appl Biomater. 2024 Jan;112(1):e35319. doi: [10.1002/jbm.b.35319](https://doi.org/10.1002/jbm.b.35319). Epub 2023 Aug 23. PMID: 37610175.
26. de Almeida GS, **Ferreira MR**, Fernandes CC Jr, de Biagi CAO Jr, Silva WA Jr, Rangel EC, Lisboa-Filho PN, Zambuzzi WF. *Combination of in silico and cell culture strategies to predict biomaterial performance: Effects of sintering temperature on the biological properties of hydroxyapatite*. J Biomed Mater Res B Appl Biomater. 2024 Feb;112(2):e35389. doi: [10.1002/jbm.b.35389](https://doi.org/10.1002/jbm.b.35389). PMID: 38356168.
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29. Fernandes CJC, Silva RA, **Ferreira MR**, Fuhler GM, Peppelenbosch MP, van der Eerden BC, Zambuzzi WF. *Vascular smooth muscle cell-derived exosomes promote osteoblast-to-osteocyte transition via -catenin signaling*. Exp Cell Res. 2024 Sep 1;442(1):114211. doi: [10.1016/j.yexcr.2024.114211](https://doi.org/10.1016/j.yexcr.2024.114211). Epub 2024 Aug 14. PMID: 39147261.
30. Naia Fioretto M, Maciel FA, Barata LA, Ribeiro IT, Basso CBP, **Ferreira MR**, Dos Santos SAA, Mattos R, Baptista HS, Portela LMF, Padilha PM, Felisbino SL, Scarano WR, Zambrano E, Justulin LA. *Impact of maternal protein restriction on the proteomic landscape of male rat lungs across the lifespan*. Mol Cell Endocrinol. 2024 Oct 1;592:112348. doi: [10.1016/j.mce.2024.112348](https://doi.org/10.1016/j.mce.2024.112348). Epub 2024 Aug 31. PMID: 39218056.

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