



Bernardo Bonilauri

Postdoctoral Scholar, Cardiovascular Institute

Bio

BIO

I am a highly motivated and devoted scientist, deeply committed to advancing our understanding of the molecular foundations of cardiovascular disease while spearheading innovative therapeutic approaches and drug discovery. As a Postdoctoral Research Fellow at the Stanford Cardiovascular Institute, under the guidance of Dr. Joseph C. Wu, I am privileged to contribute to cutting-edge research. My work spans various disciplines, including multi-omics, molecular and cellular biology, tissue engineering, biochemistry, structural biology, and state-of-the-art imaging technologies. This holistic approach and sharp critical thinking equips me to untangle the complexities of cardiac diseases and innovate novel therapeutic strategies, particularly for rare cardiac conditions such as Transthyretin Cardiac Amyloidosis.

HONORS AND AWARDS

- Postdoctoral Fellowship - Research Supplement to Promote Diversity in Science, American Heart Association (AHA) (2022-2024)
- Vice-presidency of Education, Information, and Communication (VPEIC-FIOCRUZ), Oswaldo Cruz Foundation (FIOCRUZ) (2018-2021)
- CAPES Fellowship, Higher Education Personnel Scholarship (CAPES) (2016-2018)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member of the Council on Genomic and Precision Medicine (Early Career Committee), American Heart Association (AHA) (2022 - present)
- Member, American Heart Association (AHA) (2022 - present)
- Member, International Society of Amyloidosis (ISA) (2023 - present)
- Member, Sigma Xi (2024 - present)

STANFORD ADVISORS

- Joseph Wu, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Unveiling Polysomal Long Non-Coding RNA Expression on the First Day of Adipogenesis and Osteogenesis in Human Adipose-Derived Stem Cells.** *International journal of molecular sciences*
Bonilauri, B., Ribeiro, A. L., Spangenberg, L., Dallagiovanna, B.
2024; 25 (4)
- **Generation of two induced pluripotent stem cell lines from hereditary amyloidosis patients with polyneuropathy carrying heterozygous transthyretin (TTR) mutation.** *Stem cell research*
Melesio, J., Bonilauri, B., Li, A., Pang, P. D., Liao, R., Witteles, R. M., Wu, J. C., Sallam, K.
2023; 74: 103265

- **Generation of two induced pluripotent stem cell lines from patients with cardiac amyloidosis carrying heterozygous transthyretin (TTR) mutation.** *Stem cell research*
Bonilauri, B., Shin, H. S., Htet, M., Yan, C. D., Witteles, R. M., Sallam, K., Wu, J. C.
2023; 72: 103215
- **Microproteins in skeletal muscle: hidden keys in muscle physiology.** *Journal of cachexia, sarcopenia and muscle*
Bonilauri, B., Dallagiovanna, B.
2022; 13 (1): 100-113
- **Non-target molecular network and putative genes of flavonoid biosynthesis in *Erythrina velutina* Willd., a Brazilian semiarid native woody plant.** *Frontiers in plant science*
Chacon, D. S., Santos, M. D., Bonilauri, B., Vilasboa, J., da Costa, C. T., da Silva, I. B., Torres, T. d., de Araujo, T. F., Roque, A. d., Pilon, A. C., Selegatto, D. M., Freire, R. T., Reginaldo, et al
2022; 13: 947558
- **Proteogenomic Analysis Reveals Proteins Involved in the First Step of Adipogenesis in Human Adipose-Derived Stem Cells.** *Stem cells international*
Bonilauri, B., Camillo-Andrade, A. C., Santos, M. D., Fischer, J. d., Carvalho, P. C., Dallagiovanna, B.
2021; 2021: 3168428
- **Long Non-Coding RNAs Associated with Ribosomes in Human Adipose-Derived Stem Cells: From RNAs to Microproteins.** *Biomolecules*
Bonilauri, B., Holetz, F. B., Dallagiovanna, B.
2021; 11 (11)
- **Linking long noncoding RNAs (lncRNAs) and doping detection.** *Drug testing and analysis*
Bonilauri, B., Dallagiovanna, B.
2021; 13 (5): 1068-1071
- **The impact of blood-processing time on the proteome of human peripheral blood mononuclear cells.** *Biochimica et biophysica acta. Proteins and proteomics*
Bonilauri, B., Santos, M. D., Camillo-Andrade, A. C., Bispo, S., Nogueira, F. C., Carvalho, P. C., Zanchin, N. I., Fischer, J. d.
2021; 1869 (3): 140581
- **Long Non-coding RNAs Are Differentially Expressed After Different Exercise Training Programs.** *Frontiers in physiology*
Bonilauri, B., Dallagiovanna, B.
2020; 11: 567614
- **Data describing the experimental design and quality control of RNA-Seq of human adipose-derived stem cells undergoing early adipogenesis and osteogenesis.** *Data in brief*
Marcon, B. H., Spangenberg, L., Bonilauri, B., Robert, A. W., Angulski, A. B., Cabo, G. C., Cofré, A. R., Bettles, P. S., Dallagiovanna, B., Shigunov, P.
2020; 28: 105053