Stanford

Edina Poletto

Postdoctoral Scholar, Medical Genetics

Bio

HONORS AND AWARDS

- Young Investigator Award, WORLDSymposium (2024)
- Young Investigator Award, International Journal of Molecular Sciences (2023)
- Honorable Mention in Biological Sciences, CAPES Thesis Award (2022)
- Outstanding Ph.D. student, Postgraduate Program in Genetics and Molecular Biology (UFRGS) (2018)
- Outstanding Undergraduate Research Project, XXIV Salão de Iniciação Científica UFRGS (2012)

PROFESSIONAL EDUCATION

- PhD., Universidade Federal do Rio Grande do Sul , Genetics and Molecular Biology (2021)
- M.Sc., Universidade Federal do Rio Grande do Sul , Genetics and Molecular Biology (2017)
- B.Sc, Universidade Federal do Rio Grande do Sul , Biomedicine (2015)

STANFORD ADVISORS

- Natalia Gomez-Ospina, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Natalia Gomez-Ospina, Gomez-Ospina Lab (6/6/2022)

Publications

PUBLICATIONS

- **Improved engraftment and therapeutic efficacy by human genome-edited hematopoietic stem cells with Busulfan-based myeloablation.** *Molecular therapy. Methods & clinical development*
  Poletto, E., Colella, P., Pimentel Vera, L. N., Khan, S., Tomatsu, S., Baldo, G., Gomez-Ospina, N.
  2022; 25: 392-409

- **Genome Editing for Mucopolysaccharidoses.** *International journal of molecular sciences*
  Poletto, E. n., Baldo, G. n., Gomez-Ospina, N. n.
  2020; 21 (2)

- **Engineering monocyte/macrophage-specific glucocerebrosidase expression in human hematopoietic stem cells using genome editing** *Nature Communications*
  Scharenberg, S. G., Poletto, E., Lucot, K. L., Colella, P., Sheikali, A., Montine, T. J., Porteus, M. H., Gomez-Ospina, N.
  2020; 11: 1-14

- **Clinical development of autologous genome-edited hematopoietic stem cells to treat mucopolysaccharidosis type I**
  Poletto, E., Marathe, M., Margittai, D., Liu, X., Jiang, Q., Deshpande, T., Fazeli, F., Ikeda, T., Van Horn, T., Gomez-Ospina, N.
  ACADEMIC PRESS INC ELSEVIER SCIENCE.2024

- **Genome-edited hematopoietic stem cells as a curative approach for Gaucher disease type 1**
  Vera, L., Gastou, M., Arozqueta-Basurto, J., Colella, P., Feng, A., Poletto, E., Gomez-Ospina, N.
  ACADEMIC PRESS INC ELSEVIER SCIENCE.2024

- **Editorial: Genome editing in stem cells.** *Frontiers in genome editing*
  Bayarsaikhan, D., Poletto, E.
  2024; 6: 1357369

- **Pilot study of newborn screening for six lysosomal diseases in Brazil** *MOLECULAR GENETICS AND METABOLISM*
  Kubaski, F., Sousa, I., Amorim, T., Pereira, D., Silva, C., Chaves, V., Brusius-Facchin, A., Netto, A. O., Soares, J., Vairo, F., Poletto, E., Trometer, J., Souza, et al
  2023; 140 (1-2): 107654

- **Microglia Replacement with Bone Marrow-Derived Cells after Transient Inhibition of the Colony-Stimulating Factor 1 Receptor (CSF1R) is Superior to Standard Myeloablative Conditioning in Neuropathic Lysosomal Storage Diseases**
  Colella, P., Suarez-Nieto, M., Sayana, R., Poletto, E., Vera, L., Basurto, J., Gomez-Ospina, N.
  CELL PRESS.2023: 160-161

- **Engineering Human Hematopoietic Stem and Progenitor Cells for Lineage-Specific Expression of Galactocerebrosidase Using Genome Editing**
  Amorin, N. A., Golden, L., Poletto, E., Johnston, N., Feist, W., Menezes, T., Kikuta, K., Luna, S., Charlton, C., Kashuv, T., Gomez-Ospina, N.
  CELL PRESS.2023: 782

- **Ex vivo gene therapy for lysosomal storage disorders: future perspectives** *EXPERT OPINION ON BIOLOGICAL THERAPY*
  Poletto, E., Silva, A., Weinlich, R., Martin, P., Torres, D., Giugliani, R., Baldo, G.
  2023: 1-12

- **Diagnosis and Emerging Treatment Strategies for Mucopolysaccharidosis VII (Sly Syndrome).** *Therapeutics and clinical risk management*
  Poswar, F. d., Henriques Nehm, J., Kubaski, F., Poletto, E., Giugliani, R.
  2022; 18: 1143-1155

- **Experience of the NPC Brazil Network with a Comprehensive Program for the Screening and Diagnosis of Niemann-Pick Disease Type C** *INTERNATIONAL JOURNAL OF NEONATAL SCREENING*
  Kubaski, F., Burlina, A., Polo, G., Pereira, D., Herbst, Z. M., Silva, C., Trapp, F. B., Michelin-Tirelli, K., Lopes, F. F., Burin, M. G., Brusius-Facchin, A., Netto, A. O., Faqueti, et al
  2022; 8 (3)

- **Biochemical diagnosis of aromatic-L-amino acid decarboxylase deficiency (AADCD) by assay of AADC activity in plasma using liquid chromatography/ tandem mass spectrometry** *MOLECULAR GENETICS AND METABOLISM REPORTS*
  Civallero, G., Kubaski, F., Pereira, D., Rubensam, G., Herbst, Z. M., Silva, C., Trapp, F. B., Poletto, E., Faqueti, L., Iop, G., Soares, J., van der Linden, V., van der Linden, et al
  2022; 32: 100888