



Priscila Ferreira Slepicka

Postdoctoral Research Fellow, Stem Cell Transplantation

Bio

BIO

Priscila Slepicka graduated from the University of Campinas in 2010 with a Bachelor's of Science degree in Biological Sciences. In 2011, Priscila enrolled on her Ph.D. in Genetics and Molecular Biology at the University of Campinas with project developed at the Brazilian Biosciences National Laboratory in Brazil. She investigated the interactomic as well as the structure and function of human protein kinases. In a collaboration with Dr. Jon Elkins at Structural Genomics Consortium in Oxford, UK (2012), Priscila and coworkers obtained the structure of NEK1 kinase domain. In a collaboration with Dr. Joan Roig Amorós at Institute for Research in Biomedicine in Barcelona, Spain (2013), she accelerated her research in investigating the functional role of NEKs in mitochondria and in DNA damage repair and response pathways. After completing her Ph.D. degree, Priscila joined Dr. Camila dos Santos' laboratory at Cold Spring Harbor Laboratory as a Postdoctoral fellow. Her research project focused on mimicking the effects of pregnancy in breast cancer prevention using FDA-approved drugs. In 2020, Priscila joined Dr. Alice Bertaina's laboratory at the Department of Pediatrics as a Postdoctoral Scholar in Stem Cell Transplantation. Her project focuses on investigating innovative gene therapy strategies to improve stem cell transplantation in patients with pediatric malignant and non-malignant diseases.

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Organizing Committee, X Congress for Biology Students, Brazil (2010 - 2011)
- Scientific Advisor, XI Congress for Biology Students, Brazil (2013 - 2013)

PROFESSIONAL EDUCATION

- Bachelor of Science, University of Campinas , Biological Sciences (2011)
- Ph.D., University of Campinas , Genetics and Molecular Biology (2015)
- Postdoctoral Fellow, Cold Spring Harbor Laboratory , Genetics and Molecular Biology (2016)

STANFORD ADVISORS

- Alice Bertaina, Postdoctoral Faculty Sponsor

LINKS

- ORCID: <https://orcid.org/0000-0002-1006-6965>
- Researchgate: https://www.researchgate.net/profile/Priscila_Slepicka

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My postdoctoral research focuses on investigating innovative gene therapy strategies to improve stem cell transplantation in patients with pediatric malignant and non-malignant diseases.

Publications

PUBLICATIONS

- **NEK5 interacts with topoisomerase II beta and is involved in the DNA damage response induced by etoposide** *JOURNAL OF CELLULAR BIOCHEMISTRY*
Melo-Hanchuk, T., Slepicka, P., Pelegriani, A., Martins Menck, C., Kobarg, J.
2019; 120 (10): 16853–66
- **Pregnancy and Breast Cancer: Pathways to Understand Risk and Prevention** *TRENDS IN MOLECULAR MEDICINE*
Slepicka, P. F., Cyrill, S. L., dos Santos, C. O.
2019; 25 (10): 866–81
- **BPTF Maintains Chromatin Accessibility and the Self-Renewal Capacity of Mammary Gland Stem Cells** *STEM CELL REPORTS*
Frey, W. D., Chaudhry, A., Slepicka, P. F., Ouellette, A. M., Kirberger, S. E., Pomerantz, W. K., Hannon, G. J., dos Santos, C. O.
2017; 9 (1): 23–31
- **NEK10 interactome and depletion reveal new roles in mitochondria.** *Proteome science*
Peres de Oliveira, A. n., Basei, F. L., Slepicka, P. F., de Castro Ferezin, C. n., Melo-Hanchuk, T. D., de Souza, E. E., Lima, T. I., Dos Santos, V. T., Mendes, D. n.,
Silveira, L. R., Menck, C. F., Kobarg, J. n.
2020; 18: 4
- **NEK1 kinase domain structure and its dynamic protein interactome after exposure to Cisplatin** *SCIENTIFIC REPORTS*
Melo-Hanchuk, T. D., Slepicka, P., Meirelles, G., Basei, F., Lovato, D., Granato, D., Pauletti, B., Domingues, R., Paes Leme, A., Pelegriani, A., Lenz, G., Knapp, S.,
Elkins, et al
2017; 7: 5445
- **Nek5 interacts with mitochondrial proteins and interferes negatively in mitochondrial mediated cell death and respiration** *CELLULAR SIGNALLING*
Melo Hanchuk, T. D., Papa, P., La Guardia, P. G., Vercesi, A. E., Kobarg, J.
2015; 27 (6): 1168–77
- **"Stop Ne(c)king around": How interactomics contributes to functionally characterize Nek family kinases.** *World journal of biological chemistry*
Meirelles, G. V., Perez, A. M., de Souza, E. E., Basei, F. L., Papa, P. F., Melo Hanchuk, T. D., Cardoso, V. B., Kobarg, J. n.
2014; 5 (2): 141–60
- **Solution structure of the human signaling protein RACK1** *BMC STRUCTURAL BIOLOGY*
Goncalves, K. A., Borges, J. C., Silva, J. C., Papa, P. F., Bressan, G. C., Torriani, I. L., Kobarg, J.
2010; 10: 15