



Fabian Morales Polanco

Postdoctoral Scholar, Biology

Bio

HONORS AND AWARDS

- Maximum Distinction, Universidad de Chile (2013)
- Fondecyt (ANID) International Graduate Scholarship, Chilean Government (2014)
- Pew Latin American Fellow, Postdoctoral Fellowship, The Pew Trusts (2020)

PROFESSIONAL EDUCATION

- Bachelor of Science, Universidad de Chile , Molecular Biotechnology (2013)
- Professional Title, Universidad de Chile , Molecular Biotechnology (Professional Engineer) (2014)
- Doctor of Philosophy, The University of Manchester , Biotechnology, Bioscience Enterprise and Molecular Biology (2018)

STANFORD ADVISORS

- Judith Frydman, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **A hierarchical assembly pathway directs the unique subunit arrangement of TRiC/CCT.** *Molecular cell*
Betancourt Moreira, K., Collier, M. P., Leitner, A., Li, K. H., Lachapel, I. L., McCarthy, F., Opoku-Nsiah, K. A., Morales-Polanco, F., Barbosa, N., Gestaut, D., Samant, R. S., Roh, S., Frydman, et al
2023
- **Nuclear and cytoplasmic spatial protein quality control is coordinated by nuclear-vacuolar junctions and perinuclear ESCRT.** *Nature cell biology*
Sontag, E. M., Morales-Polanco, F., Chen, J. H., McDermott, G., Dolan, P. T., Gestaut, D., Le Gros, M. A., Larabell, C., Frydman, J.
2023
- **Cotranslational Mechanisms of Protein Biogenesis and Complex Assembly in Eukaryotes** *Annual Reviews of Biomedical Data Science*
Morales-Polanco, F., Lee, J. H., Barbosa, N. M., Frydman, J.
2022; 5
- **An ESCRT-dependent pathway of Nuclear and Cytoplasmic Spatial PQC is coordinated at Nuclear Vacuolar Junctions** *Biorxiv*
Sontag, E. M., Morales-Polanco, F., Chen, J., McDermott, G., Dolan, P. T., Gestaut, D., Le Gros, M. A., Larabell, C., Frydman, J.
2022
- **A Comprehensive Enumeration of the Human Proteostasis Network. 1. Components of Translation, Protein Folding, and Organelle-Specific Systems** *Biorxiv*
Consortium, T. P.,
2022

- **Ageing exacerbates ribosome pausing to disrupt cotranslational proteostasis** *Nature*
Stein, K. C., Morales-Polanco, F., Leinden, J. v., Rainbolt, K. T., Frydman, J.
2022
- **Core Fermentation (CoFe) granules focus coordinated glycolytic mRNA localization and translation to fuel glucose fermentation.** *iScience*
Morales-Polanco, F. n., Bates, C. n., Lui, J. n., Casson, J. n., Solari, C. A., Pizzinga, M. n., Forte, G. n., Griffin, C. n., Garner, K. E., Burt, H. E., Dixon, H. L., Hubbard, S. n., Portela, et al
2021; 24 (2): 102069
- **Glycolytic mRNAs localise and are translated in Core Fermentation (CoFe) granules to fuel glucose fermentation** *BioRxiv*
Morales Polanco, F., Bates, C., Lui, J., Solari, C., Ashe, M., et al
2020
- **Translation factor mRNA granules direct protein synthetic capacity to regions of polarized growth.** *The Journal of cell biology*
Pizzinga, M., Bates, C., Lui, J., Forte, G., Morales-Polanco, F., Linney, E., Knotkova, B., Wilson, B., Solari, C. A., Berchowitz, L. E., Portela, P., Ashe, M. P.
2019