



Marta Seczynska

Postdoctoral Scholar, Genetics

Bio

HONORS AND AWARDS

- EMBO Postdoctoral Fellowship, European Molecular Biology Organization (2023)
- Birnstiel Award for Doctoral Research in Molecular Life Sciences, Max Birnstiel Foundation & IMP Vienna (2022)
- PhD fellowship, Boehringer Ingelheim Fonds (BIF) (2018-2020)
- Award for scientific and academic excellence, Ministry of Science and Higher Education Poland (2014)

PROFESSIONAL EDUCATION

- PhD, University of Cambridge , Medical Science (2022)
- Master of Science, Jagiellonian University , Molecular Biotechnology (2015)
- Bachelor of Science, Jagiellonian University , Molecular Biotechnology (2013)

STANFORD ADVISORS

- Lars Steinmetz, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Reduced Cas9 transgene silencing by incorporation of intron sequences.** *Nature communications*
Arana, S., Du, P. P., Vaughan-Jackson, A., Enright, N., Spees, K., Valbuena, R., Garcia, C. A., Nguyen, T., Venida, A., Seczynska, M., Bintu, L., Lehner, P. J., Prolo, et al
2025; 16 (1): 10656
- **Genome recombination on demand.** *Science (New York, N.Y.)*
Seczynska, M., Steinmetz, L. M.
2025; 387 (6733): 477-478
- **The sound of silence: mechanisms and implications of HUSH complex function** *Trends in Genetics*
Seczynska, M., Lehner, P. J.
2023
- **Genome surveillance by HUSH-mediated silencing of intronless mobile elements** *NATURE*
Seczynska, M., Bloor, S., Cuesta, S., Lehner, P. J.
2022; 601 (7893): 440+
- **TASOR is a pseudo-PARP that directs HUSH complex assembly and epigenetic transposon control** *NATURE COMMUNICATIONS*
Douse, C. H., Tchasovnikarova, I. A., Timms, R. T., Protasio, A. V., Seczynska, M., Prigozhin, D. M., Albecka, A., Wagstaff, J., Williamson, J. C., Freund, S. M. V., Lehner, P. J., Modis, Y.

2020; 11 (1): 4940

- **A selective ER-phagy exerts procollagen quality control via a Calnexin-FAM134B complex** *EMBO JOURNAL*
Forrester, A., De Leonibus, C., Grumati, P., Fasana, E., Piemontese, M., Staiano, L., Fregno, I., Raimondi, A., Marazza, A., Bruno, G., Iavazzo, M., Intartaglia, D., Seczynska, et al
2019; 38 (2)
- **Lack of Heme Oxygenase-1 Induces Inflammatory Reaction and Proliferation of Muscle Satellite Cells after Cardiotoxin-Induced Skeletal Muscle Injury** *AMERICAN JOURNAL OF PATHOLOGY*
Kozakowska, M., Pietraszek-Gremplewicz, K., Ciesla, M., Seczynska, M., Bronisz-Budzynska, I., Podkalicka, P., Bukowska-Strakova, K., Loboda, A., Jozkowicz, A., Dulak, J.
2018; 188 (2): 491-506
- **Removing the waste bags: how p97 drives autophagy of lysosomes** *EMBO JOURNAL*
Seczynska, M., Dikic, I.
2017; 36 (2): 129-131
- **Heme oxygenase-1 controls an HDAC4-miR-206 pathway of oxidative stress in rhabdomyosarcoma.** *Cancer research*
Ciesla, M., Marona, P., Kozakowska, M., Jez, M., Seczynska, M., Loboda, A., Bukowska-Strakova, K., Szade, A., Walawender, M., Kusior, M., Stepniewski, J., Szade, K., Krist, et al
2016
- **IL28B polymorphism (rs12979860) associated with clearance of HCV infection in Poland: Systematic review of its prevalence in chronic hepatitis C patients and general population frequency** *PHARMACOLOGICAL REPORTS*
Kaczor, M. P., Seczynska, M., Szczeklik, W., Sanak, M.
2015; 67 (2): 260-266