

Anita Reddy

Postdoctoral Scholar, Microbiology and Immunology

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Harvard University (2024)
- PhD, Harvard University , Biological and Biomedical Sciences (2023)
- BS, University of Connecticut , Molecular & Cellular Biology (2014)

STANFORD ADVISORS

- Justin Sonnenburg, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Monocarboxylate transporters facilitate succinate uptake into brown adipocytes.** *Nature metabolism*
Reddy, A., Winther, S., Tran, N., Xiao, H., Jakob, J., Garrity, R., Smith, A., Ordonez, M., Laznik-Bogoslavski, D., Rothstein, J. D., Mills, E. L., Chouchani, E. T. 2024; 6 (3): 567-577
- **Lactate regulates cell cycle by remodeling the anaphase promoting complex.** *Nature*
Liu, W., Wang, Y., Bozi, L. H., Fischer, P., Jedrychowski, M. P., Xiao, H., Wu, T., Darabedian, N., He, X., Mills, E. L., Burger, N., Shin, S., Reddy, et al 2023
- **Isolation of extracellular fluids reveals novel secreted bioactive proteins from muscle and fat tissues.** *Cell metabolism*
Mittenbühler, M. J., Jedrychowski, M. P., Van Vranken, J. G., Sprenger, H. G., Wilensky, S., Dumesic, P. A., Sun, Y., Tartaglia, A., Bogoslavski, D., A. M., Xiao, H., Blackmore, K. A., Reddy, et al 2023; 35 (3): 535-549.e7
- **Architecture of the outbred brown fat proteome defines regulators of metabolic physiology.** *Cell*
Xiao, H., Bozi, L. H., Sun, Y., Riley, C. L., Philip, V. M., Chen, M., Li, J., Zhang, T., Mills, E. L., Emont, M. P., Sun, W., Reddy, A., Garrity, et al 2022
- **Glucose metabolism and pyruvate carboxylase enhance glutathione synthesis and restrict oxidative stress in pancreatic islets.** *Cell reports*
Fu, A., van Rooyen, L., Evans, L., Armstrong, N., Avizonis, D., Kin, T., Bird, G. H., Reddy, A., Chouchani, E. T., Liesa-Roig, M., Walensky, L. D., Shapiro, A. M., Danial, et al 2021; 37 (8): 110037
- **UCP1 governs liver extracellular succinate and inflammatory pathogenesis.** *Nature metabolism*
Mills, E. L., Harmon, C., Jedrychowski, M. P., Xiao, H., Garrity, R., Tran, N. V., Bradshaw, G. A., Fu, A., Szpyt, J., Reddy, A., Prendeville, H., Danial, N. N., Gygi, et al 2021; 3 (5): 604-617
- **pH-Gated Succinate Secretion Regulates Muscle Remodeling in Response to Exercise.** *Cell*
Reddy, A., Bozi, L. H., Yaghi, O. K., Mills, E. L., Xiao, H., Nicholson, H. E., Paschini, M., Paulo, J. A., Garrity, R., Laznik-Bogoslavski, D., Ferreira, J. C., Carl, C. S., Sjöberg, et al 2020; 183 (1): 62-75.e17
- **A Quantitative Tissue-Specific Landscape of Protein Redox Regulation during Aging.** *Cell*

Xiao, H., Jedrychowski, M. P., Schweppe, D. K., Huttlin, E. L., Yu, Q., Heppner, D. E., Li, J., Long, J., Mills, E. L., Szpyt, J., He, Z., Du, G., Garrity, et al
2020; 180 (5): 968-983.e24

● **Genomic evolution and chemoresistance in germ-cell tumours.** *Nature*

Taylor-Weiner, A., Zack, T., O'Donnell, E., Guerriero, J. L., Bernard, B., Reddy, A., Han, G. C., AlDubayan, S., Amin-Mansour, A., Schumacher, S. E., Litchfield, K., Turnbull, C., Gabriel, et al
2016; 540 (7631): 114-118

● **Mitochondrial Biogenesis and Proteome Remodeling Promote One-Carbon Metabolism for T Cell Activation.** *Cell metabolism*

Ron-Harel, N., Santos, D., Ghergurovich, J. M., Sage, P. T., Reddy, A., Lovitch, S. B., Dephoure, N., Satterstrom, F. K., Sheffer, M., Spinelli, J. B., Gygi, S., Rabinowitz, J. D., Sharpe, et al
2016; 24 (1): 104-17