Stanford

Giulia Notarangelo

Postdoctoral Scholar, Genetics

Bio

PROFESSIONAL EDUCATION

- PhD, Harvard Medical School , Biological and Biomedical Sciences (2022)
- BA, Mount Holyoke College , Biological Sciences (2014)

STANFORD ADVISORS

- Anne Brunet, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Targeting immune cells in the aged brain reveals that engineered cytokine IL-10 enhances neurogenesis and improves cognition.** *Immunity*
  Navarro Negredo, P., You, J., Hauptschein, M., Schroer, A. B., Richard, D. J., Abhiraman, G. C., Tsai, A. P., Sun, E. D., Notarangelo, G., Ramirez-Matias, J., Zhou, O. Y., Buckley, M. T., Malacon, et al
  2026
- **Metabolic modulation of mitochondrial mass during CD4+ T cell activation.** *Cell chemical biology*
  Kurmi, K., Liang, D., van de Ven, R., Georgiev, P., Gassaway, B. M., Han, S., Notarangelo, G., Harris, I. S., Yao, C. H., Park, J. S., Hu, S. H., Peng, J., Drijvers, et al
  2023; 30 (9): 1064-1075.e8
- **Uncoupled glycerol-3-phosphate shuttle in kidney cancer reveals that cytosolic GPD is essential to support lipid synthesis.** *Molecular cell*
  Yao, C. H., Park, J. S., Kurmi, K., Hu, S. H., Notarangelo, G., Crowley, J., Jacobson, H., Hui, S., Sharpe, A. H., Haigis, M. C.
  2023; 83 (8): 1340-1349.e7
- **Oncometabolite d-2HG alters T cell metabolism to impair CD8+ T cell function.** *Science (New York, N.Y.)*
  Notarangelo, G., Spinelli, J. B., Perez, E. M., Baker, G. J., Kurmi, K., Elia, I., Stopka, S. A., Baquer, G., Lin, J. R., Golby, A. J., Joshi, S., Baron, H. F., Drijvers, et al
  2022; 377 (6614): 1519-1529
- **Tumor cells dictate anti-tumor immune responses by altering pyruvate utilization and succinate signaling in CD8+ T cells.** *Cell metabolism*
  Elia, I., Rowe, J. H., Johnson, S., Joshi, S., Notarangelo, G., Kurmi, K., Weiss, S., Freeman, G. J., Sharpe, A. H., Haigis, M. C.
  2022; 34 (8): 1137-1150.e6
- **SIRT4 is an early regulator of branched-chain amino acid catabolism that promotes adipogenesis.** *Cell reports*
  Zaganjor, E., Yoon, H., Spinelli, J. B., Nunn, E. R., Laurent, G., Keskinidis, P., Sivaloganathan, S., Joshi, S., Notarangelo, G., Mulei, S., Chvasta, M. T., Tucker, S. A., Kalafut, et al
  2021; 36 (2): 109345
- **Defective glycosylation and multisystem abnormalities characterize the primary immunodeficiency XMEN disease.** *The Journal of clinical investigation*

Ravell, J. C., Matsuda-Lennikov, M., Chauvin, S. D., Zou, J., Biancalana, M., Deeb, S. J., Price, S., Su, H. C., Notarangelo, G., Jiang, P., Morawski, A., Kanellopoulou, C., Binder, et al

2020; 130 (1): 507-522

- **Sweet Temptation: From Sugar Metabolism to Gene Regulation.** *Immunity*

  Notarangelo, G., Haigis, M. C.

  2019; 51 (6): 980-981

- **Mitochondrial Reprogramming Underlies Resistance to BCL-2 Inhibition in Lymphoid Malignancies.** *Cancer cell*

  Guièze, R., Liu, V. M., Rosebrock, D., Jourdain, A. A., Hernández-Sánchez, M., Martinez Zurita, A., Sun, J., Ten Hacken, E., Baranowski, K., Thompson, P. A., Heo, J. M., Cartun, Z., Aygün, et al

  2019; 36 (4): 369-384.e13

- **T Cell Activation Depends on Extracellular Alanine.** *Cell reports*

  Ron-Harel, N., Ghergurovich, J. M., Notarangelo, G., LaFleur, M. W., Tsubosaka, Y., Sharpe, A. H., Rabinowitz, J. D., Haigis, M. C.

  2019; 28 (12): 3011-3021.e4

- **Magnesium transporter 1 (MAGT1) deficiency causes selective defects in N-linked glycosylation and expression of immune-response genes.** *The Journal of biological chemistry*

  Matsuda-Lennikov, M., Biancalana, M., Zou, J., Ravell, J. C., Zheng, L., Kanellopoulou, C., Jiang, P., Notarangelo, G., Jing, H., Masutani, E., Oler, A. J., Olano, L. R., Schulz, et al

  2019; 294 (37): 13638-13656

- **Defective respiration and one-carbon metabolism contribute to impaired naïve T cell activation in aged mice.** *Proceedings of the National Academy of Sciences of the United States of America*

  Ron-Harel, N., Notarangelo, G., Ghergurovich, J. M., Paulo, J. A., Sage, P. T., Santos, D., Satterstrom, F. K., Gygi, S. P., Rabinowitz, J. D., Sharpe, A. H., Haigis, M. C.

  2018; 115 (52): 13347-13352