Stanford

Saborni Chakraborty

Basic Life Research Scientist, Institute for Immunity, Transplantation, and Infection Operations

Publications

PUBLICATIONS

- **Impact of age and prior COVID-19 on the response to influenza a components in the 2020-2021 Fluzone vaccine.** *Vaccine*
  Ashraf, U., Lee, A., Gao, Q., Gonzalez, J. C., Scallan, C., Chinthrajah, R. S., Maecker, H. T., Davis, M. M., Nadeau, K. C., Chakraborty, S., Wang, T. T.
  2025; 56: 127171

- **FcγR binding differentially contributes to protection by two human monoclonal antibodies targeting Plasmodium falciparum circumsporozoite protein.** *Science translational medicine*
  Kisalu, N. K., Silva Pereira, L. D., Herman, J. D., Asokan, M., Ernste, K., Merriam, J., Liu, C., DeMouth, M. E., Pegu, A., Lofgren, M., Dillon, M., Bonilla, B., MacVicar, et al
  2025; 17 (795): eadk6745

- **Coupling antigens from multiple subtypes of influenza can broaden antibody and T cell responses.** *Science (New York, N.Y.)*
  Mallajosyula, V., Chakraborty, S., Sola, E., Fong, R. F., Shankar, V., Gao, F., Burrell, A. R., Gupta, N., Wagar, L. E., Mischel, P. S., Capasso, R., Staat, M. A., Chien, et al
  2024; 386 (6728): 1389-1395

- **Sialylated IgG induces the transcription factor REST in alveolar macrophages to protect against lung inflammation and severe influenza disease.** *Immunity*
  Chakraborty, S., Cheng, B. Y., Edwards, D. L., Gonzalez, J. C., Chiu, D. K., Zheng, H., Scallan, C., Guo, X., Tan, G. S., Coffey, G. P., Conley, P. B., Hume, P. S., Janssen, et al
  2024

- **Calibrating T cell help by antigen cross-linking as a universal vaccine platform against rapidly evolving pathogenic viruses**
  Mallajosyula, V., Chakraborty, S., Sola, E., Gao, F., Wang, T., Davis, M. M.
  AMER ASSOC IMMUNOLOGISTS.2023

- **Early immune markers of clinical, virological, and immunological outcomes in patients with COVID-19: a multi-omics study.** *eLife*
  Hu, Z., van der Ploeg, K., Chakraborty, S., Arunachalam, P. S., Mori, D. A., Jacobson, K. B., Bonilla, H., Parsonnet, J., Andrews, J. R., Holubar, M., Subramanian, A., Khosla, C., Maldonado, et al
  2022; 11

- **Heterogeneity in IgG-CD16 signaling in infectious disease outcomes** *IMMUNOLOGICAL REVIEWS*
  Gonzalez, J. C., Chakraborty, S., Thulin, N. K., Wang, T. T.
  2022

- **TNF-alpha+ CD4+ Tcells dominate the SARS-CoV-2 specific T cell response in COVID-19 outpatients and are associated with durable antibodies.** *Cell reports. Medicine*
  van der Ploeg, K., Kirosingh, A. S., Mori, D. A., Chakraborty, S., Hu, Z., Sievers, B. L., Jacobson, K. B., Bonilla, H., Parsonnet, J., Andrews, J. R., Press, K. D., Ty, M. C., Ruiz-Betancourt, et al
  2022: 100640

- **Differential Peripheral Blood Glycoprotein Profiles in Symptomatic and Asymptomatic COVID-19.** *Viruses*
  Pickering, C., Zhou, B., Xu, G., Rice, R., Ramachandran, P., Huang, H., Pham, T. D., Schapiro, J. M., Cong, X., Chakraborty, S., Edwards, K., Reddy, S. T., Guirgis, et al
  2022; 14 (3)

- **Early immune responses have long-term associations with clinical, virologic, and immunologic outcomes in patients with COVID-19.** *Research square*

  Hu, Z., van der Ploeg, K., Chakraborty, S., Arunachalam, P., Mori, D., Jacobson, K., Bonilla, H., Parsonnet, J., Andrews, J., Hedlin, H., de la Parte, L., Dantzler, K., Ty, et al

  2022

- **Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity.** *Science translational medicine*

  Chakraborty, S., Gonzalez, J. C., Sievers, B. L., Mallajosyula, V., Chakraborty, S., Dubey, M., Ashraf, U., Cheng, B. Y., Kathale, N., Tran, K. Q., Scallan, C., Sinnott, A., Cassidy, et al

  1800: eabm7853

- **Antibodies elicited by SARS-CoV-2 infection or mRNA vaccines have reduced neutralizing activity against Beta and Omicron pseudoviruses.** *Science translational medicine*

  Sievers, B. L., Chakraborty, S., Xue, Y., Gelbart, T., Gonzalez, J. C., Cassidy, A. G., Golan, Y., Prahl, M., Gaw, S. L., Arunachalam, P. S., Blish, C. A., Boyd, S. D., Davis, et al

  1800: eabn7842

- **Structurally and functionally distinct early antibody responses predict COVID-19 disease trajectory and mRNA vaccine response.** *bioRxiv : the preprint server for biology*

  Chakraborty, S., Gonzalez, J. C., Sievers, B. L., Mallajosyula, V., Chakraborty, S., Dubey, M., Ashraf, U., Cheng, B. Y., Kathale, N., Tran, K. Q., Scallan, C., Sinnott, A., Cassidy, et al

  1800

- **New-onset IgG autoantibodies in hospitalized patients with COVID-19.** *Nature communications*

  Chang, S. E., Feng, A., Meng, W., Apostolidis, S. A., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthrajah, S., Dhingra, et al

  2021; 12 (1): 5417

- **New-Onset IgG Autoantibodies in Hospitalized Patients with COVID-19**

  Chang, S., Feng, A., Meng, W., Apostolidis, S., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthrajah, S., Dhingra, et al

  WILEY.2021: 3202-3205

- **CD8+ T cells specific for conserved coronavirus epitopes correlate with milder disease in COVID-19 patients.** *Science immunology*

  Mallajosyula, V., Ganjavi, C., Chakraborty, S., McSween, A. M., Pavlovitch-Bedzyk, A. J., Wilhelmy, J., Nau, A., Manohar, M., Nadeau, K. C., Davis, M. M.

  2021; 6 (61)

- **SARS-CoV-2 vaccines in advanced clinical trials: where do we stand.** *Advanced drug delivery reviews*

  Chakraborty, S. n., Mallajosyula, V. n., Tato, C. M., Tan, G. S., Wang, T. T.

  2021

- **Proinflammatory IgG Fc structures in patients with severe COVID-19** *Nature Immunology*

  Chakraborty, S., Gonzales, J., Edwards, K., Mallajosyulla, V., Buzzanco, A. S., Sherwood, R., Buffone, C., Kathale, N., Providenza, S., Xie, M. M., Andrews, J. R., Blish, C. A., Singh, et al

  2020

- **Symptomatic SARS-CoV-2 infections display specific IgG Fc structures.** *medRxiv : the preprint server for health sciences*

  Chakraborty, S. n., Edwards, K. n., Buzzanco, A. S., Memoli, M. J., Sherwood, R. n., Mallajosyula, V. n., Xie, M. M., Gonzalez, J. n., Buffone, C. n., Kathale, N. n., Providenza, S. n., Jagannathan, P. n., Andrews, et al

  2020