

# Miguel Reyes, Ph.D.

## First and Corresponding Author Publications

Reyes, M.<sup>†</sup>, Leff, S., Gentili, M. G., Hacoheh, N.<sup>†</sup>, Blainey, P. C.<sup>†</sup> (2023). Microscale combinatorial stimulation of human myeloid cells reveals inflammatory priming by viral ligands. **Science Advances**. [10.1126/sciadv.ade5090](https://doi.org/10.1126/sciadv.ade5090). (†co-corresponding author)

Reyes, M., Filbin, M. R., Bhattacharyya, R. P., Sonny, A., Mehta, A., Billman, K., Kays, K. R., Pinilla-Vera, M., Benson, M. E., Cosimi, L. A., Hung, D. T., Levy, B. D., Villani, A.-C., Sade-Feldman, M., Baron, R. M., Goldberg, M. B., Blainey, P. C., & Hacoheh, N. (2021). Plasma from patients with bacterial sepsis or severe COVID-19 induces suppressive myeloid cell production from hematopoietic progenitors in vitro. **Science Translational Medicine**. [10.1126/scitranslmed.abe9599](https://doi.org/10.1126/scitranslmed.abe9599).

Reyes, M.<sup>\*</sup>, Filbin, M. R.<sup>\*</sup>, Bhattacharyya, R. P., Billman, K., Eisenhaure, T., Hung, D.T., Levy, B.D., Baron, R. M., Blainey, P.C., Goldberg, M. B., Hacoheh, N. (2020). An immune-cell signature of bacterial sepsis. **Nature Medicine**. [10.1038/s41591-020-0752-4](https://doi.org/10.1038/s41591-020-0752-4). (\*co-first author)

Reyes, M., Billman, K., Hacoheh, N., Blainey, P.C. (2019). Simultaneous profiling of gene expression and chromatin accessibility in single cells. **Advanced Biosystems**. [10.1002/adbi.201900065R2](https://doi.org/10.1002/adbi.201900065R2).

Reyes, M.<sup>\*</sup>, Vickers, D.<sup>\*</sup>, Billman, K., Eisenhaure, T., Hoover, P., Browne, E. P., Rao, D. A., Hacoheh, N., Blainey, P.C. (2019). Multiplexed enrichment and genomic profiling of peripheral blood cells reveal subset-specific immune signatures. **Science Advances**. [10.1126/sciadv.aau9223](https://doi.org/10.1126/sciadv.aau9223). (\*co-first author)

Reyes, M., Piotrowski, M., Ang, S. K., Chan, J., He, S., Chu, J. J. H., & Kah, J. C. Y. (2017). Exploiting the Anti-Aggregation of Gold Nanostars for Rapid Detection of Hand, Foot, and Mouth Disease Causing Enterovirus 71 Using Surface-Enhanced Raman Spectroscopy. **Analytical Chemistry**. [10.1021/acs.analchem.7b00066](https://doi.org/10.1021/acs.analchem.7b00066).

## Other Publications

Banal, J. L.<sup>\*</sup>, Shepherd, T. R.<sup>\*</sup>, Berleant, J.<sup>\*</sup>, Huang, H., Reyes, M., Ackerman, C. M., Blainey, P. C., & Bathe, M. (2021). Arbitrary Boolean logical search operations on massive molecular file systems. **Nature Materials**. [10.1038/s41563-021-01021-3](https://doi.org/10.1038/s41563-021-01021-3).

Filbin, M. R.<sup>\*</sup>, Mehta, A.<sup>\*</sup>,..., Sade-Feldman, M., Hacoheh, N., Goldberg, M. B. (2021). Longitudinal proteomic analysis of plasma from patients with severe COVID-19 reveal patient survival-associated signatures, tissue-specific cell death, and cell-cell interactions. **Cell Reports Medicine**. [10.1016/j.xcrm.2021.100287](https://doi.org/10.1016/j.xcrm.2021.100287).

Wong, Y. L., Kang, W. C. M., Reyes, M., Teo, J. W. P. & Kah, J. C. Y. (2020) Rapid Detection of Carbapenemase-Producing Enterobacteriaceae Based on Surface-Enhanced Raman Spectroscopy with Gold Nanostars. **ACS Infectious Diseases**. [10.1021/acsinfectdis.9b00318](https://doi.org/10.1021/acsinfectdis.9b00318).

Flauraud, V., Reyes, M., Paniagua-Dominguez, R., Kuznetsov, A. I., & Brugger, J. (2017). Silicon nanostructures for bright field full color prints. **ACS Photonics**. [10.1021/acsp Photonics.6b01021](https://doi.org/10.1021/acsp Photonics.6b01021).

He, S., Kang, M. W. C., Khan, F. J., Tan, E. K. M., Reyes, M., & Kah, J. C. Y. (2015). Optimizing gold nanostars as a colloid-based surface-enhanced Raman scattering (SERS) substrate. **Journal of Optics**. [10.1088/2040-8978](https://doi.org/10.1088/2040-8978).