



## Tejaswini Mishra

Basic Life Research Scientist, Genetics

### Bio

---

#### INSTITUTE AFFILIATIONS

- Member (Staff), Cardiovascular Institute

### Publications

---

#### PUBLICATIONS

- **NASA GeneLab RNA-seq consensus pipeline: standardized processing of short-read RNA-seq data.** *iScience*  
Overbey, E. G., Saravia-Butler, A. M., Zhang, Z., Rathi, K. S., Fogle, H., da Silveira, W. A., Barker, R. J., Bass, J. J., Beheshti, A., Berrios, D. C., Blaber, E. A., Cekanaviciute, E., Costa, et al  
2021; 24 (4): 102361
- **Cell-free DNA (cfDNA) and Exosome Profiling from a Year-Long Human Spaceflight Reveals Circulating Biomarkers.** *iScience*  
Bezdan, D., Grigorev, K., Meydan, C., Pelissier Vatter, F. A., Cioffi, M., Rao, V., MacKay, M., Nakahira, K., Burnham, P., Afshinnekoo, E., Westover, C., Butler, D., Mozsary, et al  
2020; 23 (12): 101844
- **Pre-symptomatic detection of COVID-19 from smartwatch data.** *Nature biomedical engineering*  
Mishra, T., Wang, M., Metwally, A. A., Bogu, G. K., Brooks, A. W., Bahmani, A., Alavi, A., Celli, A., Higgs, E., Dagan-Rosenfeld, O., Fay, B., Kirkpatrick, S., Kellogg, et al  
2020
- **Perspectives on ENCODE.** *Nature*  
ENCODE Project Consortium, Snyder, M. P., Gingeras, T. R., Moore, J. E., Weng, Z., Gerstein, M. B., Ren, B., Hardison, R. C., Stamatoyannopoulos, J. A., Graveley, B. R., Feingold, E. A., Pazin, M. J., Pagan, M., et al  
2020; 583 (7818): 693–98
- **Deep longitudinal multiomics profiling reveals two biological seasonal patterns in California.** *Nature communications*  
Sailani, M. R., Metwally, A. A., Zhou, W. n., Rose, S. M., Ahadi, S. n., Contrepois, K. n., Mishra, T. n., Zhang, M. J., Kidziński, Ł. n., Chu, T. J., Snyder, M. P.  
2020; 11 (1): 4933
- **Expanded encyclopaedias of DNA elements in the human and mouse genomes.** *Nature*  
Moore, J. E., Purcaro, M. J., Pratt, H. E., Epstein, C. B., Shores, N. n., Adrian, J. n., Kawli, T. n., Davis, C. A., Dobin, A. n., Kaul, R. n., Halow, J. n., Van Nostrand, E. L., Freese, et al  
2020; 583 (7818): 699–710
- **A longitudinal big data approach for precision health** *NATURE MEDICINE*  
Rose, S., Contrepois, K., Moneghetti, K. J., Zhou, W., Mishra, T., Mataraso, S., Dagan-Rosenfeld, O., Ganz, A. B., Dunn, J., Hornburg, D., Rego, S., Perelman, D., Ahadi, et al  
2019; 25 (5): 792–+
- **Longitudinal multi-omics of host-microbe dynamics in prediabetes.** *Nature*

- Zhou, W., Sailani, M. R., Contrepois, K., Zhou, Y., Ahadi, S., Leopold, S. R., Zhang, M. J., Rao, V., Avina, M., Mishra, T., Johnson, J., Lee-McMullen, B., Chen, et al  
2019; 569 (7758): 663–71
- **The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight** *SCIENCE*  
Garrett-Bakelman, F. E., Darshi, M., Green, S. J., Gur, R. C., Lin, L., Macias, B. R., McKenna, M. J., Meydan, C., Mishra, T., Nasrini, J., Piening, B. D., Rizzardi, L. F., Sharma, et al  
2019; 364 (6436): 144–+
  - **A longitudinal big data approach for precision health.** *Nature medicine*  
Schüssler-Fiorenza Rose, S. M., Contrepois, K. n., Moneghetti, K. J., Zhou, W. n., Mishra, T. n., Mataraso, S. n., Dagan-Rosenfeld, O. n., Ganz, A. B., Dunn, J. n., Hornburg, D. n., Rego, S. n., Perelman, D. n., Ahadi, et al  
2019; 25 (5): 792–804
  - **The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight.** *Science (New York, N.Y.)*  
Garrett-Bakelman, F. E., Darshi, M. n., Green, S. J., Gur, R. C., Lin, L. n., Macias, B. R., McKenna, M. J., Meydan, C. n., Mishra, T. n., Nasrini, J. n., Piening, B. D., Rizzardi, L. F., Sharma, et al  
2019; 364 (6436)
  - **Distinct transcriptomic and exomic abnormalities within myelodysplastic syndrome marrow cells.** *Leukemia & lymphoma*  
Im, H., Rao, V., Sridhar, K., Bentley, J., Mishra, T., Chen, R., Hall, J., Graber, A., Zhang, Y., Li, X., Mias, G. I., Snyder, M. P., Greenberg, et al  
2018: 1-11
  - **Integrative Personal Omics Profiles during Periods of Weight Gain and Loss.** *Cell systems*  
Piening, B. D., Zhou, W. n., Contrepois, K. n., Röst, H. n., Gu Urban, G. J., Mishra, T. n., Hanson, B. M., Bautista, E. J., Leopold, S. n., Yeh, C. Y., Spakowicz, D. n., Banerjee, I. n., Chen, et al  
2018
  - **Distinct Transcriptomic and Exomic Abnormalities Within Myelodysplastic Syndrome Marrow Cells** *Leukemia & Lymphoma*  
Im, H., Rao, V., Sridhar, K., Bentley, J., Mishra, T., Chen, R., Hall, J., Graber, A., Zhang, Y., Xiao, L., Mias, G., Snyder, M. P., Greenberg, et al  
2018: 1-11
  - **A comparative encyclopedia of DNA elements in the mouse genome** *NATURE*  
Yue, F., Cheng, Y., Breschi, A., Vierstra, J., Wu, W., Ryba, T., Sandstrom, R., Ma, Z., Davis, C., Pope, B. D., Shen, Y., Pervouchine, D. D., Djebali, et al  
2014; 515 (7527): 355–?
  - **A comparative encyclopedia of DNA elements in the mouse genome.** *Nature*  
Yue, F., Cheng, Y., Breschi, A., Vierstra, J., Wu, W., Ryba, T., Sandstrom, R., Ma, Z., Davis, C., Pope, B. D., Shen, Y., Pervouchine, D. D., Djebali, et al  
2014; 515 (7527): 355-364
  - **An encyclopedia of mouse DNA elements (Mouse ENCODE)** *GENOME BIOLOGY*  
Stamatoyannopoulos, J. A., Snyder, M., Hardison, R., Ren, B., Gingeras, T., Gilbert, D. M., Groudine, M., Bender, M., Kaul, R., Canfield, T., Giste, E., Johnson, A., Zhang, et al  
2012; 13 (8)