Stanford

Michael Snyder, Ph.D.

Stanford W. Ascherman Professor of Genetics

CONTACT INFORMATION

- **Alternate Contact**

  Shirley Ma - Executive Assistant

  Email shirley.ma@stanford.edu

Bio

BIO

1977 B.A, Chemistry and Biology, University of Rochester, NY

1978-1982 Ph.D. California Institute of Technology, CA Advisor: Dr. Norman Davidson

1982-1986 Postdoctoral Research Stanford University School of Medicine, CA Advisor: Dr. Ronald Davis

1986-2009 Faculty Dept of Molecular, Cellular and Developmental Biology, Yale University, New Haven, CT

2009-present Dept of Genetics, Stanford University School of Medicine, Stanford, CA

ACADEMIC APPOINTMENTS

- Professor, Genetics
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Medicine Children's Health Center for IBD and Celiac Disease
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Former Chair, Dept. of Genetics, (2009-2024)
- Director, Center for Genomics and Personalized Medicine, (2009- present)

HONORS AND AWARDS

- Pioneer Award, Precision Medicine World Conference (2025)
- George Beadle Award, GSA (2019)
- Elected Member, American Academy of Science (2015)
- Stanford B. Ascherman Professor, Stanford (2011)

- Pioneer Award, Human Proteome Organization (2009)
- CT Medal of Science, Connection Academy of Science (2007)
- Pew Scholar Award, Pew Foundation (1987-1991)

LINKS

- Snyder Lab Website: http://snyderlab.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

We are presently in an omics revolution in which genomes and other omes can be readily characterized. Our laboratory uses a variety of approaches to analyze genomes and regulatory networks. Our research focuses on yeast, an ideal model organism ideally suited to genetic analysis, and humans.

1) Transcriptomes

To annotate genomes, we developed RNA sequencing for annotation the yeast and human transcriptomes. We discovered that the eukaryotic transcriptome is much more complex than previously appreciated and that embryonic stem cells have more transcript isoforms than differentiated cells.

2) Transcription Factor Binding Networks

We have also developed methods for mapping transcription factor binding sites through the genome. We used this to develop regulatory maps and have been using this to help decipher the combinatorial regulatory code which factors work together to regulate which genes. Using this approach we have mapped out pathways crucial for metabolism and inflammation.

3) Integrated Regulatory Networks

In addition to transcriptional factor binding networks we have also been mapping phosphorylation and metabolite-protein interaction networks. These studies have revealed novel global regulators and key points in integrated regulatory networks.

4) Variation

We have been analyzing differences between individuals and species at two levels: DNA sequence variation and regulatory information variations. We developed paired end sequencing for humans and found that humans have extensive structural variation (SV), i.e. deletions, insertions and inversions. This is likely to be a major cause of phenotypic variation and human disease. In addition, by mapping binding sites difference among different yeast strains and humans, we have found that individuals differ much more in their regulatory information than in coding sequence differences. We can correlate these differences with those in SNPS and SVs, thereby associating noncoding DNA differences with regulatory information.

5) Human Disease

Finally, we are applying omics approaches of genome sequencing, transcriptomics proteomics metabolomics, DNA methylation and microbiome assays to the analysis of human disease. These integrative omics approaches are being applied to help understand the molecular basis of disease and the development of diagnostics and therapeutics.

CLINICAL TRIALS

- Multiomic Signatures of Microbial Metabolites Following Prebiotic Fiber Supplementation, Not Recruiting
- Precision Diets for Diabetes Prevention, Not Recruiting
- The Lasting Change Study, Not Recruiting

- Ketogenic Metabolic Therapy in Schizophrenia, Bipolar Disorder, Major Depressive Disorder: Deep Omic Profiling, Not Specified
- The 28 Day Challenge, Not Specified

Teaching

COURSES

2026-27

- AI and Vibecoding for healthcare: GENE 231 (Win)
- Aging: The Biology of Senescence: BIOS 423 (Aut)
- Cloud Computing for Biology and Healthcare: BMDS 222, CS 273C, GENE 222 (Spr)
- Genomics: GENE 211 (Win)
- Healthcare Venture Capital: GENE 225 (Aut)
- Precision Health & Wellbeing: GENE 237 (Win)

2025-26

- AI and Vibecoding for healthcare: GENE 131, GENE 231 (Aut)
- Aging: The Biology of Senescence: BIOS 423 (Win)
- Bioinformatics Engineering: BIOS 270 (Aut)
- Cloud Computing for Biology and Healthcare: BMDS 222, CS 273C, GENE 222 (Spr)
- Engineering Wellness: Wearable Devices for Precision Medicine Applications: BIOS 237 (Win)
- Genomics: GENE 211 (Win)
- Healthcare Venture Capital: GENE 115, GENE 225 (Win)
- How We Age: GENE 129, GENE 229 (Spr)
- Multi-Omic Patient Cases: GENE 140, GENE 240 (Spr)
- Precision Health & Wellbeing: GENE 237 (Aut)

2024-25

- AI for Beginners: GENE 231 (Spr)
- Cloud Computing for Biology and Healthcare: BIOMEDIN 222, CS 273C, GENE 222 (Spr)
- Genomics: GENE 211 (Win)
- Healthcare Entrepreneurship: GENE 134, GENE 234 (Aut)
- How We Age: GENE 229 (Win)

2023-24

- AI for Beginners: GENE 231 (Win)
- Aging: Science and Technology for Longevity: GENE 223 (Spr)
- Cloud Computing for Biology and Healthcare: BIOMEDIN 222, CS 273C, GENE 222 (Spr)
- Genomics: GENE 211 (Win)
- Healthcare Venture Capital: GENE 225 (Aut)

STANFORD ADVISEES

Med Scholar Project Advisor

Joseph Allen, Longsha Liu, Isha Mehrotra, Krish Shah

Doctoral Dissertation Reader (AC)

Michael Hittle, Brent Perlman, Ernst Pulido, Ronghao Zhou

Postdoctoral Faculty Sponsor

Abdalla Ahmed, Matthew Bernard, Lindsay Guare, Shubham Gupta, Brady Hislop, Gilbert Huang, Rajendra K C, Caleb Mayer, Curtis McGinity, Majid Rodgar, Samah Shahin Zoabi, Xinyi Shen, Mahasish Shome, Arjun Srivatsa, Mingming Tong, Artem Trotsyuk, Shannon White, Yue Wu, Kelly Yoo, Ting Zhai, Ellen Zhang

Doctoral Dissertation Advisor (AC)

Martin Acosta Parra, Siranush Babakhanova, Sayra Gorgani, Khoa Hoang, Nhen Hunter, Jessica Kain, Ding Chiao (Jordan) Lin, Aubrey Roberts

Doctoral Dissertation Co-Advisor (AC)

Martin Kjellberg

Doctoral (Program)

Alexander Johansen

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Data Science (PhD Program)
- Genetics (PhD Program)
- Immunology (PhD Program)

Publications

PUBLICATIONS

- **Longitudinal Changes in Wearable-Captured Physiology Before Sudden Cardiac Death.** *JACC. Case reports*
  Lautman, Z., Gravellier, L., Malik, S., Hittle, M., Haddad, F., Ræder, H., Snyder, M. P.
  2026: 110397

- **Gut microbiome shifts in chronic systolic heart failure are associated with disease severity and clinical improvement.** *Nature cardiovascular research*
  Mamic, P., Shi, H., Zhou, W., Bararpour, N., Contrepois, K., Park, H., Avina, M., Schüssler-Fiorenza Rose, S. M., Brooks, A. W., Kotaka, M., Heidenreich, P. A., Khush, K. K., Fowler, et al
  2026

- **INSIGHT: Ingest and Standardize Glucose Harmonization Tool.** *Journal of diabetes science and technology*
  Ehlert, B., Shah, K., Katarya, D., Wu, Y., Wang, T., Snyder, M. P.
  2026: 19322968261467778

- **A comparison of deep multiomics profiles across ethnicity, geography, and age.** *Cell*
  Barapour, N., Cao, J. Z., Wu, Y., Gupta, S., Hoopmann, M. R., Qin, R., Midha, M. K., Mireault, M., Juanes-Velasco, P., Hanson, C., Ahadi, S., Higgs, E., Baxter, et al
  2026; 189 (10): 3004-3024.e35

- **In Depth Characterization of the Promoter Proximal Proteome of Single Copy Locus FOXP2.** *Molecular & cellular proteomics : MCP*
  MacKenzie, T. M., Ramirez, L., Jian, R., Jiang, L., Snyder, M. P.
  2026: 101570

- **Use of Continuous Glucose Monitoring With Machine Learning to Identify Metabolic Subphenotypes and Inform Precision Lifestyle Changes.** *Journal of diabetes science and technology*
  Metwally, A. A., Park, H., Wu, Y., McLaughlin, T., Snyder, M. P.
  2026: 19322968261431860

- **Modifiable Factors Affecting the Postprandial Glycemic Response.** *Journal of diabetes science and technology*

Wu, Y., McLaughlin, T., Gorgani, S., Scheideman, A. F., Shao, M. M., Hislop, B. D., Hoang, K., Perelman, D., McGinity, C., Rodgar, M., Park, H., Wang, T., Mayer, et al
2026: 19322968261418614

- **Single-cell proteomic landscape of the developing human brain.** *Nature biotechnology*
  Wu, T., Jiang, L., Mukhtar, T., Wang, L., Jian, R., Wang, C., Trinh, T., Kriegstein, A. R., Snyder, M., Li, J.
  2026
- **An encyclopedia of the cord blood metabolome reveals maternal-fetal interactions and disease risk.** *Cell reports. Medicine*
  Lancaster, S., Mataraso, S., Reiss, J. D., Contrepois, K., Trowbridge, C. A., Michael, B., Simms, I., Ellenberger, M., Gibson, M., Clary, M., McGuire, L., Wong, F., Canfield, et al
  2026: 102548
- **Harnessing phytochemicals for engineering health solutions.** *Human genomics*
  Kim, J. J., Yang, T. B., Zhang, X., Lin, X., Salethoor, S. N., Menon, M. M., Snyder, M. P.
  2026
- **Polyclonal origins of human premalignant colorectal lesions.** *Nature*
  Van Egeren, D., Schenck, R. O., Khan, A., Horning, A. M., Mo, S., Weiß, C. L., Esplin, E. D., Becker, W. R., Wu, S., Hanson, C., Barapour, N., Jiang, L., Contrepois, et al
  2025
- **Longitudinal wearable sensor data enhance precision of Long COVID detection.** *PLOS digital health*
  Uwakwe, C. K., Rangan, E. S., Kumar, S., Gutjahr, G., Miao, X., Brooks, A. W., Maguire, P., Mishra, T., McGuire, L., Snyder, M. P.
  2025; 4 (11): e0001093
- **Glucose360: An Open-Source Python Platform with Event-Based Integration for Continuous Glucose Monitoring Data Analysis.** *Diabetes technology & therapeutics*
  Ehlert, B., Aron, D., Perelman, D., Wu, Y., Snyder, M. P.
  2025
- **Single-cell polygenic risk scores dissect cellular and molecular heterogeneity of complex human diseases.** *Nature biotechnology*
  Zhang, S., Shu, H., Zhou, J., Rubin-Sigler, J., Yang, X., Liu, Y., Cooper-Knock, J., Monte, E., Zhu, C., Tu, S., Li, H., Tong, M., Ecker, et al
  2025
- **High-resolution lifestyle profiling and metabolic subphenotypes of type 2 diabetes.** *NPJ digital medicine*
  Park, H., Metwally, A. A., Delfarah, A., Wu, Y., Perelman, D., Mayer, C., McGinity, C., Rodgar, M., Celli, A., McLaughlin, T., Mignot, E., Snyder, M.
  2025; 8 (1): 352
- **Individual variations in glycemic responses to carbohydrates and underlying metabolic physiology.** *Nature medicine*
  Wu, Y., Ehlert, B., Metwally, A. A., Perelman, D., Park, H., Brooks, A. W., Abbasi, F., Michael, B., Celli, A., Bejikian, C., Ayhan, E., Lu, Y., Lancaster, et al
  2025
- **Short-chain fatty acid metabolites propionate and butyrate are unique epigenetic regulatory elements linking diet, metabolism and gene expression.** *Nature metabolism*
  Nshanian, M., Gruber, J. J., Geller, B. S., Chleilat, F., Lancaster, S. M., White, S. M., Alexandrova, L., Camarillo, J. M., Kelleher, N. L., Zhao, Y., Snyder, M. P.
  2025
- **Impact of digital health interventions on glycemic control and weight management.** *NPJ digital medicine*
  Veluvali, A., Dehghani Zahedani, A., Hosseinian, A., Aghaeepour, N., McLaughlin, T., Woodward, M., DiTullio, A., Hashemi, N., Snyder, M. P.
  2025; 8 (1): 20
- **Prediction of metabolic subphenotypes of type 2 diabetes via continuous glucose monitoring and machine learning.** *Nature biomedical engineering*
  Metwally, A. A., Perelman, D., Park, H., Wu, Y., Jha, A., Sharp, S., Celli, A., Ayhan, E., Abbasi, F., Gloyn, A. L., McLaughlin, T., Snyder, M. P.
  2024
- **Longitudinal urine metabolic profiling and gestational age prediction in human pregnancy.** *Briefings in bioinformatics*
  Shen, X., Chen, S., Liang, L., Avina, M., Zackriah, H., Jelliffe-Pawlowski, L., Rand, L., Snyder, M. P.

2024; 26 (1)

- **Multiomic analysis of familial adenomatous polyposis reveals molecular pathways associated with early tumorigenesis.** *Nature cancer*
  Esplin, E. D., Hanson, C., Wu, S., Horning, A. M., Barapour, N., Nevins, S. A., Jiang, L., Contrepois, K., Lee, H., Guha, T. K., Hu, Z., Laquindanum, R., Mills, et al
  2024

- **Global loss of promoter-enhancer connectivity and rebalancing of gene expression during early colorectal cancer carcinogenesis.** *Nature cancer*
  Zhu, Y., Lee, H., White, S., Weimer, A. K., Monte, E., Horning, A., Nevins, S. A., Esplin, E. D., Paul, K., Krieger, G., Shipony, Z., Chiu, R., Laquindanum, et al
  2024

- **Nonlinear dynamics of multi-omics profiles during human aging.** *Nature aging*
  Shen, X., Wang, C., Zhou, X., Zhou, W., Hornburg, D., Wu, S., Snyder, M. P.
  2024

- **Post-GWAS multiomic functional investigation of the TNIP1 locus in Alzheimer's disease highlights a potential role for GPX3.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Panyard, D. J., Reus, L. M., Ali, M., Liu, J., Deming, Y. K., Lu, Q., Kollmorgen, G., Carboni, M., Wild, N., Visser, P. J., Bertram, L., Zetterberg, H., Blennow, et al
  2024

- **Temporal dynamics of the multi-omic response to endurance exercise training.** *Nature*
  2024; 629 (8010): 174-183

- **Longitudinal profiling of the microbiome at four body sites reveals core stability and individualized dynamics during health and disease.** *Cell host & microbe*
  Zhou, X., Shen, X., Johnson, J. S., Spakowicz, D. J., Agnello, M., Zhou, W., Avina, M., Honkala, A., Chleilat, F., Chen, S. J., Cha, K., Leopold, S., Zhu, et al
  2024

- **The importance, challenges, and possible solutions for sharing proteomics data while safeguarding individuals' privacy.** *Molecular & cellular proteomics : MCP*
  Shome, M., MacKenzie, T. M., Subbareddy, S. R., Snyder, M. P.
  2024: 100731

- **Digital health application integrating wearable data and behavioral patterns improves metabolic health.** *NPJ digital medicine*
  Zahedani, A. D., Veluvali, A., McLaughlin, T., Aghaeepour, N., Hosseinian, A., Agarwal, S., Ruan, J., Tripathi, S., Woodward, M., Hashemi, N., Snyder, M.
  2023; 6 (1): 216

- **Wearable Devices: Implications for Precision Medicine and the Future of Health Care.** *Annual review of medicine*
  Babu, M., Lautman, Z., Lin, X., Sobota, M. H., Snyder, M. P.
  2023

- **Dietary fiber deficiency in individuals with metabolic syndrome: a review.** *Current opinion in clinical nutrition and metabolic care*
  Veluvali, A., Snyder, M.
  2023

- **Dynamic lipidome alterations associated with human health, disease and ageing.** *Nature metabolism*
  Hornburg, D., Wu, S., Moqri, M., Zhou, X., Contrepois, K., Bararpour, N., Traber, G. M., Su, B., Metwally, A. A., Avina, M., Zhou, W., Ubellacker, J. M., Mishra, et al
  2023

- **Biomarkers of aging for the identification and evaluation of longevity interventions.** *Cell*
  Moqri, M., Herzog, C., Poganik, J. R., Biomarkers of Aging Consortium, Justice, J., Belsky, D. W., Higgins-Chen, A., Moskalev, A., Fuellen, G., Cohen, A. A., Bautmans, I., Widschwendter, M., Ding, J., et al
  2023; 186 (18): 3758-3775

- **Advances and prospects for the Human BioMolecular Atlas Program (HuBMAP).** *Nature cell biology*

Jain, S., Pei, L., Spraggins, J. M., Angelo, M., Carson, J. P., Gehlenborg, N., Ginty, F., Gonçalves, J. P., Hagood, J. S., Hickey, J. W., Kelleher, N. L., Laurent, L. C., Lin, et al
2023

- **Organization of the human intestine at single-cell resolution.** *Nature*
  Hickey, J. W., Becker, W. R., Nevins, S. A., Horning, A., Perez, A. E., Zhu, C., Zhu, B., Wei, B., Chiu, R., Chen, D. C., Cotter, D. L., Esplin, E. D., Weimer, et al
  2023; 619 (7970): 572-584

- **Dynamic monitoring of thousands of biochemical analytes using microsampling** *NATURE BIOMEDICAL ENGINEERING*
  Kellogg, R., Snyder, M.
  2023

- **Multi-omics microsampling for the profiling of lifestyle-associated changes in health.** *Nature biomedical engineering*
  Shen, X., Kellogg, R., Panyard, D. J., Bararpour, N., Castillo, K. E., Lee-McMullen, B., Delfarah, A., Ubellacker, J., Ahadi, S., Rosenberg-Hasson, Y., Ganz, A., Contrepois, K., Michael, et al
  2023

- **Recurrent repeat expansions in human cancer genomes.** *Nature*
  Erwin, G. S., Gursoy, G., Al-Abri, R., Suriyaprakash, A., Dolzhenko, E., Zhu, K., Hoerner, C. R., White, S. M., Ramirez, L., Vadlakonda, A., Vadlakonda, A., von Kraut, K., Park, et al
  2022

- **Distinct factors associated with short-term and long-term weight loss induced by low-fat or low-carbohydrate diet intervention.** *Cell reports. Medicine*
  Li, X., Perelman, D., Leong, A. K., Fragiadakis, G., Gardner, C. D., Snyder, M. P.
  2022: 100870

- **Longitudinally tracking personal physiomes for precision management of childhood epilepsy.** *PLOS digital health*
  Jiang, P., Gao, F., Liu, S., Zhang, S., Zhang, X., Xia, Z., Zhang, W., Jiang, T., Zhu, J. L., Zhang, Z., Shu, Q., Snyder, M., Li, et al
  2022; 1 (12): e0000161

- **Identification of non-coding silencer elements and their regulation of gene expression.** *Nature reviews. Molecular cell biology*
  Pang, B., van Weerd, J. H., Hamoen, F. L., Snyder, M. P.
  2022

- **Performance effectiveness of vital parameter combinations for early warning of sepsis-an exhaustive study using machine learning** *JAMIA OPEN*
  Rangan, E., Pathinarupothi, R., Anand, K. J. S., Snyder, M. P.
  2022; 5 (4): ooac080

- **Systems analysis of de novo mutations in congenital heart diseases identified a protein network in the hypoplastic left heart syndrome.** *Cell systems*
  Wang, Y. J., Zhang, X., Lam, C. K., Guo, H., Wang, C., Zhang, S., Wu, J. C., Snyder, M., Li, J.
  2022

- **Chimpanzee and pig-tailed macaque iPSCs: Improved culture and generation of primate cross-species embryos.** *Cell reports*
  Roodgar, M., Suchy, F. P., Nguyen, L. H., Bajpai, V. K., Sinha, R., Vilches-Moure, J. G., Van Bortle, K., Bhadury, J., Metwally, A., Jiang, L., Jian, R., Chiang, R., Oikonomopoulos, et al
  2022; 40 (9): 111264

- **massDatabase: utilities for the operation of the public compound and pathway database.** *Bioinformatics (Oxford, England)*
  Shen, X., Wang, C., Snyder, M. P.
  2022

- **TidyMass an object-oriented reproducible analysis framework for LC-MS data.** *Nature communications*
  Shen, X., Yan, H., Wang, C., Gao, P., Johnson, C. H., Snyder, M. P.
  2022; 13 (1): 4365

- **Single-cell analyses define a continuum of cell state and composition changes in the malignant transformation of polyps to colorectal cancer.** *Nature genetics*

Becker, W. R., Nevins, S. A., Chen, D. C., Chiu, R., Horning, A. M., Guha, T. K., Laquindanum, R., Mills, M., Chaib, H., Ladabaum, U., Longacre, T., Shen, J., Esplin, et al
2022

- **A genome-wide atlas of recurrent repeat expansions in human cancer genomes**
Erwin, G. S., Gursoy, G., Al-Abri, R., Hoerner, C., Dolzhenko, E., Eberle, M., Fan, A., Leppert, J., Gerstein, M., Snyder, M. P.
AMER ASSOC CANCER RESEARCH.2022

- **Precision environmental health monitoring by longitudinal exposome and multi-omics profiling.** *Genome research*
Gao, P., Shen, X., Zhang, X., Jiang, C., Zhang, S., Zhou, X., Schüssler-Fiorenza Rose, S. M., Snyder, M.
2022

- **Multiomic analysis reveals cell-type-specific molecular determinants of COVID-19 severity.** *Cell systems*
Zhang, S., Cooper-Knock, J., Weimer, A. K., Shi, M., Kozhaya, L., Unutmaz, D., Harvey, C., Julian, T. H., Furini, S., Frullanti, E., Fava, F., Renieri, A., Gao, et al
2022

- **Global, distinctive, and personal changes in molecular and microbial profiles by specific fibers in humans.** *Cell host & microbe*
Lancaster, S. M., Lee-McMullen, B., Abbott, C. W., Quijada, J. V., Hornburg, D., Park, H., Perelman, D., Peterson, D. J., Tang, M., Robinson, A., Ahadi, S., Contrepois, K., Hung, et al
2022

- **Adverse childhood experiences, diabetes and associated conditions, preventive care practices and healthcare access: A population-based study.** *Preventive medicine*
Rose, S. M., Slavich, G. M., Snyder, M. P.
2022: 107044

- **Genome-wide identification of the genetic basis of amyotrophic lateral sclerosis.** *Neuron*
Zhang, S., Cooper-Knock, J., Weimer, A. K., Shi, M., Moll, T., Marshall, J. N., Harvey, C., Nezhad, H. G., Franklin, J., Souza, C. D., Ning, K., Wang, C., Li, et al
1800

- **Phenotypic characteristics of peripheral immune cells of Myalgic encephalomyelitis/chronic fatigue syndrome via transmission electron microscopy: A pilot study.** *PloS one*
Jahanbani, F., Maynard, R. D., Sing, J. C., Jahanbani, S., Perrino, J. J., Spacek, D. V., Davis, R. W., Snyder, M. P.
2022; 17 (8): e0272703

- **Real-time alerting system for COVID-19 and other stress events using wearable data.** *Nature medicine*
Alavi, A., Bogu, G. K., Wang, M., Rangan, E. S., Brooks, A. W., Wang, Q., Higgs, E., Celli, A., Mishra, T., Metwally, A. A., Cha, K., Knowles, P., Alavi, et al
2021

- **A scalable, secure, and interoperable platform for deep data-driven health management.** *Nature communications*
Bahmani, A., Alavi, A., Buergel, T., Upadhyayula, S., Wang, Q., Ananthakrishnan, S. K., Alavi, A., Celis, D., Gillespie, D., Young, G., Xing, Z., Nguyen, M. H., Haque, et al
2021; 12 (1): 5757

- **Chromatin accessibility associates with protein-RNA correlation in human cancer.** *Nature communications*
Sanghi, A., Gruber, J. J., Metwally, A., Jiang, L., Reynolds, W., Sunwoo, J., Orloff, L., Chang, H. Y., Kasowski, M., Snyder, M. P.
2021; 12 (1): 5732

- **metID: a R package for automatable compound annotation for LC-MS-based data.** *Bioinformatics (Oxford, England)*
Shen, X., Wu, S., Liang, L., Chen, S., Contrepois, K., Zhu, Z., Snyder, M.
2021

- **Five-year pediatric use of a digital wearable fitness device: lessons from a pilot case study.** *JAMIA open*
Butte, K. D., Bahmani, A., Butte, A. J., Li, X., Snyder, M. P.
2021; 4 (3): ooab054

- **Wearable sensors enable personalized predictions of clinical laboratory measurements.** *Nature medicine*
Dunn, J., Kidzinski, L., Runge, R., Witt, D., Hicks, J. L., Schussler-Fiorenza Rose, S. M., Li, X., Bahmani, A., Delp, S. L., Hastie, T., Snyder, M. P.

2021

- **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

- **An integrative ENCODE resource for cancer genomics.** *Nature communications*
  Zhang, J., Lee, D., Dhiman, V., Jiang, P., Xu, J., McGillivray, P., Yang, H., Liu, J., Meyerson, W., Clarke, D., Gu, M., Li, S., Lou, et al
  2020; 11 (1): 3696

- **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

- **Metabolic Dynamics and Prediction of Gestational Age and Time to Delivery in Pregnant Women.** *Cell*
  Liang, L., Rasmussen, M. H., Piening, B., Shen, X., Chen, S., Rost, H., Snyder, J. K., Tibshirani, R., Skotte, L., Lee, N. C., Contrepois, K., Feenstra, B., Zackriah, et al
  2020; 181 (7): 1680

- **Systematic identification of silencers in human cells.** *Nature genetics*
  Pang, B., Snyder, M. P.
  2020

- **Deep Characterization of the Human Antibody Response to Natural Infection Using Longitudinal Immune Repertoire Sequencing.** *Molecular & cellular proteomics : MCP*
  Mitsunaga, E. M., Snyder, M. P.
  2020; 19 (2): 278-293

- **Molecular Choreography of Acute Exercise.** *Cell*
  Contrepois, K. n., Wu, S. n., Moneghetti, K. J., Hornburg, D. n., Ahadi, S. n., Tsai, M. S., Metwally, A. A., Wei, E. n., Lee-McMullen, B. n., Quijada, J. V., Chen, S. n., Christle, J. W., Ellenberger, et al
  2020; 181 (5): 1112–30.e16

- **Personal aging markers and ageotypes revealed by deep longitudinal profiling.** *Nature medicine*
  Ahadi, S., Zhou, W., Schussler-Fiorenza Rose, S. M., Sailani, M. R., Contrepois, K., Avina, M., Ashland, M., Brunet, A., Snyder, M.
  2020; 26 (1): 83–90

- **A Quantitative Proteome Map of the Human Body.** *Cell*
  Jiang, L. n., Wang, M. n., Lin, S. n., Jian, R. n., Li, X. n., Chan, J. n., Dong, G. n., Fang, H. n., Robinson, A. E., Snyder, M. P.
  2020

- **Candidate variants in TUB are associated with familial tremor.** *PLoS genetics*
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