

Stanford



Shannon White

Postdoctoral Scholar, Genetics

Bio

BIO

Hi, I'm Shannon White. I began my postdoctoral fellowship in Michael Snyder's lab in the fall of 2020. I received my PhD from Georgetown University in Tumor Biology in Chunling Yi's lab. My graduate work explored the signaling and metabolic vulnerabilities of NF2-mutant tumors following YAP/TAZ depletion. My postdoctoral work is exploring the epigenetic hallmarks that contribute to colon cancer progression and drug resistance. I am developing colon organoids derived from pre-cancerous polyp tissue collected from Familial Adenomatous Polyposis patients as a model system to investigate epigenetic and signaling responses to chemoprevention treatments.

HONORS AND AWARDS

- Stanford School of Medicine Dean's Postdoctoral Fellowship, Stanford University (2020-2021)
- Graduate Research Fellow, National Science Foundation (2018-2020)
- Dr. Mark Smulson Award for Excellence in Thesis Research, Georgetown University (2021)
- Dr. Robert Dickson Award, Georgetown University (2021)

PROFESSIONAL EDUCATION

- Bachelor of Science, University of Maryland College Park (2013)
- Doctor of Philosophy, Georgetown University (2020)
- PhD, Georgetown University, Tumor Biology (2020)
- BS, University of Maryland, Bioengineering (2013)

STANFORD ADVISORS

- Michael Snyder, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **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
- **MITI minimum information guidelines for highly multiplexed tissue images.** *Nature methods*
Schapiro, D., Yapp, C., Sokolov, A., Reynolds, S. M., Chen, Y., Sudar, D., Xie, Y., Muhlich, J., Arias-Camison, R., Arena, S., Taylor, A. J., Nikolov, M., Tyler, et al
2022; 19 (3): 262-267

- **Master lineage transcription factors anchor trans mega transcriptional complexes at highly accessible enhancer sites to promote long-range chromatin clustering and transcription of distal target genes.** *Nucleic acids research*
White, S. M., Snyder, M. P., Yi, C.
2021
- **A Yap-Myc-Sox2-p53 Regulatory Network Dictates Metabolic Homeostasis and Differentiation in Kras-Driven Pancreatic Ductal Adenocarcinomas** *DEVELOPMENTAL CELL*
Murakami, S., Nemazanyy, I., White, S. M., Chen, H., Nguyen, C. K., Graham, G. T., Saur, D., Pende, M., Yi, C.
2019; 51 (1): 113-+
- **YAP/TAZ Inhibition Induces Metabolic and Signaling Rewiring Resulting in Targetable Vulnerabilities in NF2-Deficient Tumor Cells** *DEVELOPMENTAL CELL*
White, S. M., Avantiaggiati, M., Nemazanyy, I., Di Poto, C., Yang, Y., Pende, M., Gibney, G. T., Resson, H. W., Field, J., Atkins, M. B., Yi, C.
2019; 49 (3): 425-+
- **The complex entanglement of Hippo-Yap/Taz signaling in tumor immunity** *ONCOGENE*
White, S. M., Murakami, S., Yi, C.
2019; 38 (16): 2899-2909
- **Rac1-Mediated DNA Damage and Inflammation Promote NF2 Tumorigenesis but Also Limit Cell-Cycle Progression** *DEVELOPMENTAL CELL*
Shi, Y., Bollam, S. R., White, S. M., Laughlin, S. Z., Graham, G. T., Wadhwa, M., Chen, H., Nguyen, C., Vitte, J., Giovannini, M., Toretzky, J., Yi, C.
2016; 39 (4): 452-465
- **An ensemble model of QSAR tools for regulatory risk assessment** *JOURNAL OF CHEMINFORMATICS*
Pradeep, P., Pavinelli, R. J., White, S., Merrill, S. J.
2016; 8: 48

PRESENTATIONS

- Ex vivo 3D cultures of precancerous polyps as a model system to evaluate chemoprevention efficacy for FAP patients - Human Tumor Atlas Network