

Stanford



Sabra Djomehri

Postdoctoral Research Fellow, Stem Cell Biology and Regenerative Medicine

 Curriculum Vitae available Online

Bio

HONORS AND AWARDS

- Advanced Proteome Informatics of Cancer Training Program (T32), Dept of Computational Medicine & Bioinformatics, University of Michigan (2016-2018)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Michigan Ann Arbor (2020)
- B.S., University of California, Santa Cruz , Applied Physics (2009)
- M.S., San Jose State University , Biomedical Engineering (2012)
- Ph.D., University of Michigan , Molecular & Cellular Pathology (2019)

STANFORD ADVISORS

- Michael Clarke, Postdoctoral Faculty Sponsor
- Michael Clarke, Postdoctoral Research Mentor

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My passion is translating bioinformatics integrative workflows and engineering platforms from multi-omics data to better discovery of new therapies. Experienced in statistical analyses and mathematical modeling early in my career and currently working on single-cell sequencing analyses (scRNA-seq), genomics (WES), and epigenomics (targeted chromatin ligation), data integration methods, and algorithm development.

LAB AFFILIATIONS

- Michael Clarke, Clarke Lab (2/3/2020)

Publications

PUBLICATIONS

- **Next-generation sequencing identifies recurrent copy number variations in invasive breast carcinomas from Ghana**
Anwar, T., Rufail, M. L., Djomehri, S. I., Gonzalez, M. E., Lazo de la Vega, L., Tomlins, S. A., Newman, L. A., Klee, C. G.
NATURE PUBLISHING GROUP.2020: 1537–45
- **Cancer Cell Invasion of Mammary Organoids with Basal-In Phenotype** *ADVANCED HEALTHCARE MATERIALS*
Parigoris, E., Lee, S., Mertz, D., Turner, M., Liu, A. Y., Sentosa, J., Djomehri, S., Chang, H., Luker, K., Luker, G., Klee, C. G., Takayama, S.
2020: e2000810

- **Quantitative proteomic landscape of metaplastic breast carcinoma pathological subtypes and their relationship to triple-negative tumors** *NATURE COMMUNICATIONS*
Djomehri, S., Gonzalez, M. E., Leprevost, F., Tekula, S. R., Chang, H., White, M. J., Cimino-Mathews, A., Burman, B., Basrur, V., Argani, P., Nesvizhskii, A., Kleer, C. G.
2020; 11 (1): 1723
- **A reproducible scaffold-free 3D organoid model to study neoplastic progression in breast cancer** *JOURNAL OF CELL COMMUNICATION AND SIGNALING*
Djomehri, S. I., Burman, B., Gonzalez, M. E., Takayama, S., Kleer, C. G.
2019; 13 (1): 129–43
- **Ccn6/Wisp3 Regulates the IGF2BP2/HMGA2 Signaling Axis in Metaplastic Carcinomas of the Breast** *Breast cancer research and treatment*
McMullen, E., Gonzalez, M., Skala, S., Tran, M., Thomas, D., Djomehri, S., Burman, B., Kidwell, K., Kleer, C.
2018; 172 (3): 577-586
- **Repair of dentin defects from DSPP knockout mice by PILP mineralization** *JOURNAL OF MATERIALS RESEARCH*
Nurrohman, H., Saeki, K., Carneiro, K. M., Chien, Y., Djomehri, S., Ho, S. P., Qin, C., Gower, L. B., Marshall, S. J., Marshall, G. W., Habelitz, S.
2016; 31 (3): 321–27
- **Strain-guided mineralization in the bone-PDL-cementum complex of a rat periodontium.** *Bone reports*
Grandfield, K., Herber, R. P., Chen, L., Djomehri, S., Tam, C., Lee, J., Brown, E., Woolwine, W. R., Curtis, D., Ryder, M., Schuck, J., Webb, S., Landis, et al
2015; 3: 20–31
- **Mineral Density Volume Gradients in Normal and Diseased Human Tissues** *PLOS ONE*
Djomehri, S. I., Candell, S., Case, T., Browning, A., Marshall, G. W., Yun, W., Lau, S. H., Webb, S., Ho, S. P.
2015; 10 (4): e0121611
- **Simulation and verification of macroscopic isotropy of hollow alginate-based microfibers** *ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY*
Djomehri, S., Zeid, H., Yavari, A., Mobed-Miremadi, M., Youssefi, K., Liao-Chan, S.
2015; 43 (6): 390–97
- **Fickian-Based Empirical Approach for Diffusivity Determination in Hollow Alginate-Based Microfibers Using 2D Fluorescence Microscopy and Comparison with Theoretical Predictions** *MATERIALS*
Mobed-Miremadi, M., Djomehri, S., Keralapura, M., McNeil, M.
2014; 7 (12): 7670–88
- **The narwhal (*Monodon monoceros*) cementum-dentin junction: A functionally graded biointerphase** *PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE*
Grandfield, K., Chattah, N., Djomehri, S., Eidemann, N., Eichmiller, F. C., Webb, S., Schuck, P., Nweeia, M., Ho, S. P.
2014; 228 (8): 754–67
- **Biomechanics of a bone-periodontal ligament-tooth fibrous joint** *JOURNAL OF BIOMECHANICS*
Lin, J. D., Oezcoban, H., Greene, J. P., Jang, A. T., Djomehri, S. I., Fahey, K. P., Hunter, L. L., Schneider, G. A., Ho, S. P.
2013; 46 (3): 443–49
- **Age-Related Adaptation of Bone-PDL-Tooth Complex: *Rattus-Norvegicus* as a Model System** *PLOS ONE*
Leong, N. L., Hurng, J. M., Djomehri, S. I., Gansky, S. A., Ryder, M. I., Ho, S. P.
2012; 7 (4): e35980