



## Charlotte Brannon

Ph.D. Student in Biology, admitted Autumn 2020

### Publications

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#### PUBLICATIONS

- **Cilia-driven epithelial folding and unfolding in an early diverging animal.** *Proceedings of the National Academy of Sciences of the United States of America*  
Brannon, C. M., Prakash, M.  
2025; 122 (51): e2517741122
- **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
- **Storing and analyzing a genome on a blockchain.** *Genome biology*  
Gursoy, G., Brannon, C. M., Ni, E., Wagner, S., Khanna, A., Gerstein, M.  
2022; 23 (1): 134
- **Privacy-preserving genotype imputation with fully homomorphic encryption** *CELL SYSTEMS*  
Gursoy, G., Chielle, E., Brannon, C. M., Maniatakos, M., Gerstein, M.  
2022; 13 (2): 173-+
- **Functional genomics data: privacy risk assessment and technological mitigation.** *Nature reviews. Genetics*  
Gursoy, G., Li, T., Liu, S., Ni, E., Brannon, C. M., Gerstein, M. B.  
2021
- **Author Correction: Functional genomics data: privacy risk assessment and technological mitigation.** *Nature reviews. Genetics*  
Gürsoy, G., Li, T., Liu, S., Ni, E., Brannon, C. M., Gerstein, M. B.  
2021
- **Data Sanitization to Reduce Private Information Leakage from Functional Genomics.** *Cell*  
Gursoy, G., Emani, P., Brannon, C. M., Jolanki, O. A., Harmanci, A., Strattan, J. S., Cherry, J. M., Miranker, A. D., Gerstein, M.  
2020; 183 (4): 905
- **FANCY: fast estimation of privacy risk in functional genomics data** *BIOINFORMATICS*  
Gursoy, G., Brannon, C. M., Navarro, F. C. P., Gerstein, M.  
2020; 36 (21): 5145-5150
- **Using Ethereum blockchain to store and query pharmacogenomics data via smart contracts** *BMC MEDICAL GENOMICS*  
Gursoy, G., Brannon, C. M., Gerstein, M.  
2020; 13 (1): 74
- **Division of labor in bacteria The emergence of subpopulations that perform distinct metabolic roles has been observed in populations of genetically identical bacteria.** *ELIFE*  
Dal Co, A., Brannon, C., Ackermann, M.

