

Publications (as of 10/2024):

Kurban K., Kanari L. (2024). **Characterizing subtypes of projecting axons in mice using topological data analysis and machine learning** [Poster presentation]. Society for Neuroscience, San Diego, CA, USA.

Pokorny, C., Awile, O., Isbister, J. B., Kurban, K., Wolf, M., & Reimann, M. W. (2024). **A connectome manipulation framework for the systematic and reproducible study of structure–function relationships through simulations**. bioRxiv, 2024.05.24.593860. <https://doi.org/10.1101/2024.05.24.593860>

Kurban K, Romani A., Markram H.(2023) **A deep dive into CA1 network: Insights from Network Science** [Poster presentation]. 32th Computational Neuroscience Society. <https://cns2023.sched.com/event/1O6ti/p2>

Romani, A., Antonietti, A., Bella, D., Budd, J., Giacalone, E., Kurban, K., Sáray, S., Abdellah, M., Arnaudon, A., Boci, E., Colangelo, C., Courcol, J.-D., Delemontex, T., Ecker, A., Falck, J., Favreau, C., Gevaert, M., Hernando, J. B., Herttuainen, J., ... Markram, H. (2023). **Community-based Reconstruction and Simulation of a Full-scale Model of Region CA1 of Rat Hippocampus**. Cold Spring Harbor Laboratory. <https://doi.org/10.1101/2023.05.17.541167>

Kurban K, Budd J., Romani A. (2022). **Towards automated workflows in single cell morphology analyses for large scale modeling**. [Poster presentation] Mouse Neuronal Morphologies in Health and Disease: Reconstruction, Analysis and Modeling. Geneva, Switzerland

Kurban K. et. al. (2022). **Topological properties of a full-scale model of rat hippocampus CA1 and their functional implications** [Poster presentation]. Society for Neuroscience, San Diego, CA, USA.

Kurban K., Romani A., Jahangirov S. (2021). **Simplification of the data-driven hippocampal CA1 microcircuit**. MSc Thesis. Bilkent University. Turkey.

Kurban MK., Budur E. (2018). **Classification of resting-state fMRI data of patients exposed to anesthesia at an early age** [Poster presentation]. 16th National Neuroscience Congress, Istanbul Technical University, Turkey. <http://www.bad.org.tr/usk16/poster-oturumlari/>

Sutclubasi B, Metin B, Kurban MK, Metin ZE, Beser B, Sonuga-Barke E (2020). **Resting-state network dysconnectivity in ADHD: A system-neuroscience-based meta-analysis**. World J Biol Psychiatry. 2020 Nov;21(9):662-672. doi: 10.1080/15622975.2020.1775889. Epub 2020 Jun 30. PMID: 32468880.

Pokorny, C., Awile, O., Isbister, J. B., Kurban, K., Wolf, M., & Reimann, M. W. (2024). **A connectome manipulation framework for the systematic and reproducible study of structure-function relationships through simulations** [Poster presentation]. Bernstein Conference.