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Bio

ACADEMIC APPOINTMENTS

- Instructor, Adult Neurology

Publications

PUBLICATIONS

- **Beyond seizure control: Identifying deficits in cognitive networks in absence epilepsy.** *Science advances*
Vantomme, G., Devienne, G., Hull, J. M., Huguenard, J. R.
2026; 12 (20): eaed3642
- **Neuromodulation of voltage-gated sodium channels by Gβ1γ2 subunits: Implications for GNB1-linked encephalopathy** *NEUROBIOLOGY OF DISEASE*
Denomme, N., Hodges, S. L., Lopez-Santiago, L., Yuan, Y., Ziobro, J. M., Minton, J., Chen, C., Chen, Y., Hull, J. M., Offord, J., Smrcka, A. V., Isom, L. L.
2025; 213: 106990
- **Rhythmic Quakes Shock the Cortical Focus Theory.** *Epilepsy currents*
Hull, J. M., Huguenard, J. R.
2025: 15357597251314673
- **The reuniens thalamus recruits recurrent excitation in the medial prefrontal cortex.** *Proceedings of the National Academy of Sciences of the United States of America*
Vantomme, G., Devienne, G., Hull, J. M., Huguenard, J. R.
2025; 122 (11): e2500321122
- **Reuniens thalamus recruits recurrent excitation in medial prefrontal cortex.** *bioRxiv : the preprint server for biology*
Vantomme, G., Devienne, G., Hull, J. M., Huguenard, J. R.
2024
- **XOB: A novel phenylalkylamine antagonist of 5-HT2A receptors and voltage-gated sodium channels.** *Molecular pharmacology*
Denomme, N., Hernandez, C. C., Bock, H. A., Ohana, R. F., Bakshi, S., Sherwood, A. M., McCorvy, J. D., Daley, P. F., Callaway, W. B., Hull, J. M., Alt, A., Isom, L. L., Cozzi, et al
2024
- **Atlas of the aging mouse brain reveals white matter as vulnerable foci.** *Cell*
Hahn, O., Foltz, A. G., Atkins, M., Kedir, B., Moran-Losada, P., Guldner, I. H., Munson, C., Kern, F., Pálovics, R., Lu, N., Zhang, H., Kaur, A., Hull, et al
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- **A CMOS-based highly scalable flexible neural electrode interface.** *Science advances*
Zhao, E. T., Hull, J. M., Mintz Hemed, N., Uluşan, H., Bartram, J., Zhang, A., Wang, P., Pham, A., Ronchi, S., Huguenard, J. R., Hierlemann, A., Melosh, N. A.
2023; 9 (23): eadf9524
- **Heterogeneity of voltage gated sodium current density between neurons decorrelates spiking and suppresses network synchronization in Scn1b null mouse models.** *Scientific reports*
Hull, J. M., Denomme, N., Yuan, Y., Booth, V., Isom, L. L.

2023; 13 (1): 8887

- **Ankyrin-G regulates forebrain connectivity and network synchronization via interaction with GABARAP** *MOLECULAR PSYCHIATRY*
Nelson, A. D., Caballero-Floran, R. N., Diaz, J., Hull, J. M., Yuan, Y., Li, J., Chen, K., Walder, K. K., Lopez-Santiago, L. F., Bennett, V., McInnis, M. G., Isom, L. L., Wang, et al
2020; 25 (11): 2800-2817