

Title

Benchmark of cellular deconvolution methods using a multi-assay reference dataset from postmortem human prefrontal cortex

Authors

Louise A. Huuki-Myers^{1,*}, Kelsey D. Montgomery^{1,*}, Sang Ho Kwon^{1,2}, Sophia Cinquemani¹, Nicholas J. Eagles¹, Daianna Gonzalez-Padilla¹, Sean K. Maden³, Joel E. Kleinman^{1,4}, Thomas M. Hyde^{1,4,5}, Stephanie C. Hicks^{3,4,6,7,8}, Kristen R. Maynard^{1,2,4,+}, Leonardo Collado-Torres^{1,3,6,+}

Affiliations

1. Lieber Institute for Brain Development, Johns Hopkins Medical Campus, Baltimore, MD, 21205, USA
2. The Solomon H. Snyder Department of Neuroscience, Johns Hopkins School of Medicine, Baltimore, MD, 21205, USA
3. Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, 21205, USA
4. Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, MD, 21205, USA
5. Department of Neurology, Johns Hopkins School of Medicine, Baltimore, MD, 21205, USA
6. Center for Computational Biology, Johns Hopkins University, Baltimore, MD, 21205, USA
7. Department of Biomedical Engineering, Johns Hopkins University, Baltimore, MD, 21205, USA
8. Malone Center for Engineering in Healthcare, Johns Hopkins University, Baltimore, MD, 21218, USA

* equal contributors

+ co-corresponding authors

Kristen R. Maynard kristen.maynard@libd.org and Leonardo Collado-Torres lcolladotor@gmail.com