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The BRAIN Initiative Cell Atlas Network: Comprehensive multimodal atlases of the human brain

Monday 9 September 2024 09:15 (1 hour)

The BRAIN Initiative Cell Atlas Network (BICAN) is a collaborative effort between neuroscientists, computational biologists and software engineers to create a comprehensive atlas of the human brain. Supported by the U.S. BRAIN Initiative, the project is dedicated to advancing our knowledge of the brain by gathering and sharing new data that allows identifying a "parts list"of the brain, detailing its vast array of neurons and non-neuronal cells. The BICAN continues the work of the BRAIN Initiative Cell Census Network consortium which recently delivered a whole mouse brain transcriptomic atlas. In this Educational Lecture I will survey the open-access compendium of BICCN/BICAN data and tools that are available to help researchers better understand the structure and function of the brain and advance neuroscience research.

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Session Classification: BigBrain Project Educational Lecture