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Madeline Lancaster
Eppendorf Young Investigator 2014

Madeline Lancaster
Marie Curie Postdoctoral Research Fellow,
Laboratory of Juergen Knoblich,
Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA),
Vienna, Austria

Modeling human brain size regulation in cerebral organoids

The human brain exhibits dramatic evolutionary and developmental expansion, a process that has been difficult to examine in traditional animal models. In order to gain insight into this uniquely human process, my work focuses on the use of a 3D *in vitro* model system of human brain development, termed cerebral organoids, to examine regulators of brain size in the context of human evolution and neurodevelopmental disease.

»This Award is a recognition of the potential of stem cell technologies to model human development and disease. It is a testament to the power of combining diverse fields to shed light on key questions, and it would not have been possible without the important contributions of our collaborators, and the supportive environment of the Knoblich group and IMBA.«

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