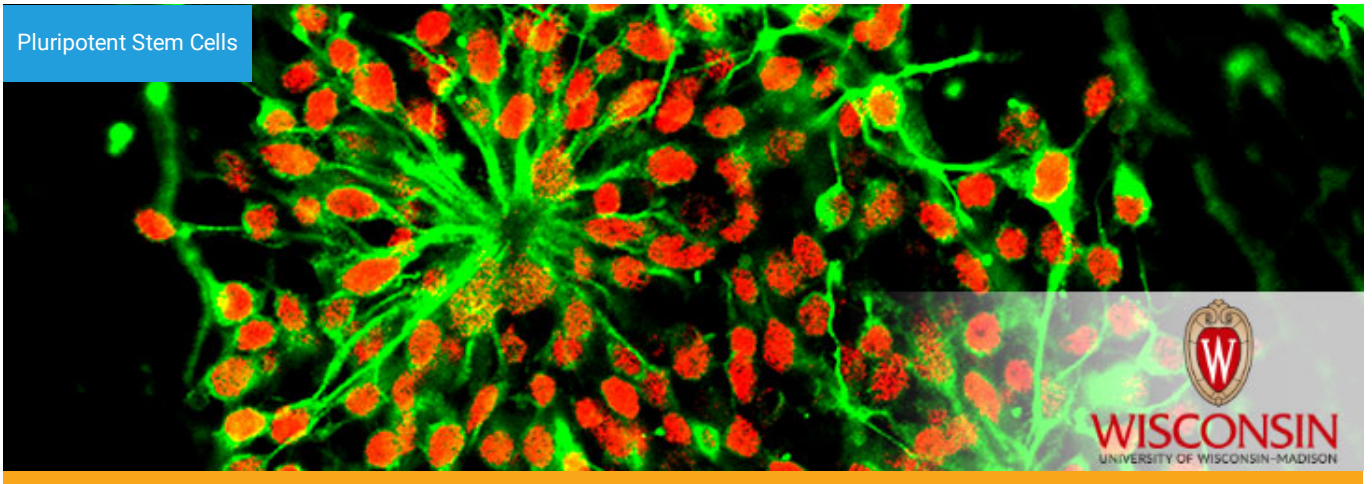


Pluripotent Stem Cells



METHODS FOR CONTROLLED INDUCTION OF BIOENGINEERED NEUROEPITHELIAL TISSUES AND 3-D NEUROEPITHELIAL TUBES

WARF: P200307US03

Inventors: Randolph Ashton, Gavin Knight, Benjamin Knudsen, Nisha Iyer, Carlos Marti-Figueroa

The Invention

Described herein are methods, compositions, and kits for directed differentiation of human pluripotent stem cells, neuromesodermal progenitors, and neural stem cells into bioengineered elliptical neuroepithelial tissues and bioengineered neuroepithelial tubes that contain a single rosette of polarized neuroepithelial cells and have microscale cellular organization similar to that of an in vivo developing human neural tube.

Additional Information

For More Information About the Inventors

- [Randolph Ashton](#)

Tech Fields

- [Drug Delivery : Other drug delivery technologies](#)
- [Drug Discovery & Development : Preclinical testing](#)
- [Pluripotent Stem Cells : Differentiation](#)

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