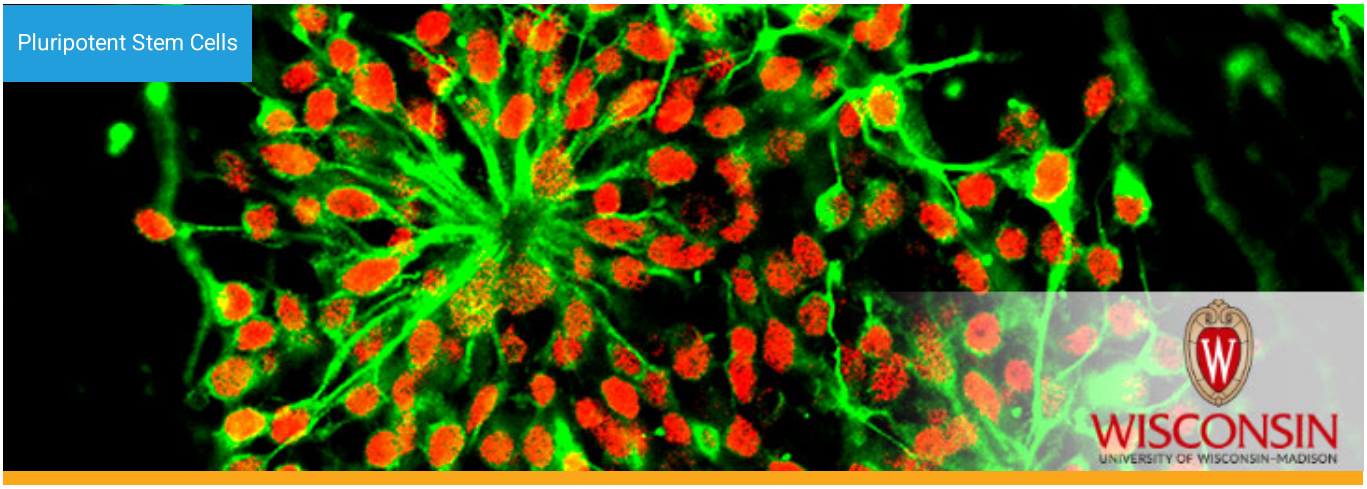

METHODS FOR CONTROLLED INDUCTION OF BIOENGINEERED NEUROEPITHELIAL TISSUES AND 3-D NEUROEPITHELIAL TUBES

View U.S. Patent Application Publication No. US-2022-0177853 in PDF format.

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

For current licensing status, please contact Andy DeTienne at adetienne@warf.org or 608-960-9857