

## **Hiroko Nobuta, PhD**

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**Research Interests:** The major goal of our research is to develop regenerative therapies for human oligodendrocyte disorders such as leukodystrophies, multiple sclerosis, and white matter injury associated with premature birth. The lab takes two approaches to achieve the goal: 1) gaining fundamental knowledge in human brain development, and 2) engineering transplantable human oligodendrocytes.

### **Current funding:**

Career Transition Award, National Multiple Sclerosis Society

### **Selected Publications:** For complete list:

(<https://www.ncbi.nlm.nih.gov/pubmed/?term=nobuta.h+NOT+%22Hirose.k%22>)

**Nobuta H**, Yang N, Ng YH, Marro SG, Sabeur K, Chavali M, Stockley JH, Killilea DW, Walter PB, Zhao C, Huie P, Goldman SA, Kriegstein AR, Franklin RJM, Rowitch D, Wernig M. **Cell Stem Cell**. 2019 Oct 3;25(4):531-541. Human Oligodendrocyte Death in Pelizaeus-Merzbacher Disease is Rescued by Iron Chelation.

“Next Generation Human Disease Models in Neuroscience.” A faculty presenter at virtual conference for the Society for Neuroscience. Viewable at <https://neuroonline.sfn.org/Articles/Scientific-Research/2019/Next-Generation-Human-Disease-Models-in-Neuroscience>. Sep 2019

“Generation of Oligodendrocytes from iPS Cells: Stem Cells and Reprogramming Methods for Neuroscience.” A faculty presenter at the Online Training Series for the Society for Neuroscience. Viewable at <https://neuroonline.sfn.org/>. Aug 2019