



Photo

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**Current Positions** Assistant Professor, Graduate Institute of Biomedical Sciences, China Medical University  
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**E-Portfolio Website**

**Personal Website**

### Education

MS, National Taiwan University, Taiwan (2006-2008)  
PhD, Baylor College of Medicine, Texas, USA (2009-2015)  
Postdoc in Center for Cell and Gene Therapy, Baylor College of Medicine, Texas, USA (2015-2021)

### Expertise

White Matter Injury	Astrocytes	Behavior assays
Glioblastoma	NGS	Mouse Genetic Model
Rett Syndrome		

### Research Interests

My major research interests are to study the function of astrocytes and related diseases, especially the multiple sclerosis and glioblastoma multiforme (GBM). In the previous studies, we found that several transcription factors necessary for gliogenesis are involved in injury recovery or tumor progression. I aim to discover the roles of these transcription factors through genetics, cellular, circuitry, and behavioral approaches.

### Selected Grants:

### Selected Publications

Ung K<sup>#</sup>, **Huang TW<sup>#</sup>**, Lozzi B, Woo J, Hanson E, Tepe B, Sardar D, Cheng YT, Pekarek B, Liua G, Deneen B\*, Arenkiel BR\*. (2021) "Olfactory bulb astrocytes mediate sensory circuit processing through Sox9." Nature Communications. Accepted July 8 th 2021, **#Co-First authors IF=14.919**

Laug DJ<sup>#</sup>, **Huang TW<sup>#</sup>**, Bosquez Huerta NA, Huang YS, Sardar D, Ortiz-Guzman J, Carlson JC, Arenkiel B, Kuo CT, Mohila CA, Glasgow SM, Lee HK, Deneen B\*. (2019) "Nuclear factor I-A regulates diverse reactive astrocyte responses after CNS injury." Journal of Clinical Investigation 2019 Oct 1;129(10):4408-4418. PMID: 31498149. PMCID: PMC6763246 **#Co-First authors IF=11.864**

### Selected Patents