

## **Curriculum Vitae Shun-Fen Tzeng**

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### **EDUCATION**

- 1994 Ph.D., Department of Biochemistry, Medical College of Virginia, Virginia Commonwealth University Richmond, Virginia.
- 1988 M.S., Institute of Biochemistry, School of Medicine, National Taiwan University, Taipei, Taiwan.
- 1985 Bachelor, Department of Chemistry, National Cheng Kung University, Tainan, Taiwan.

### **ACADEMIC APPOINTMENTS**

- 2008-present Distinguished Professor, National Cheng Kung University
- 2005-present Professor, Department of Life Sciences, College of Bioscience and Biotechnology, National Cheng Kung University, Tainan, Taiwan
- 2002-2005 Associate Professor, Department of Life Sciences, College of Bioscience and Biotechnology, National Cheng Kung University, Tainan, Taiwan
- 2001-2002 Assistant Professor, Department of Biology, College of Science, National Cheng Kung University, Tainan, Taiwan

### **PROFESSIONAL EXPERIENCES**

- 2004 Visiting scholar, Institute of Neuroscience, UC Berkeley.
- 1997-2001 Associate research fellow, Taichung Veterans General Hospital
- 1994-1997 Post-doctoral Fellow, Neurochemistry Group, UCLA School of Medicine
- 1988-1990 Teaching assistant, Institute of Biochemistry, School of Medicine, National Taiwan University

### **ADMINISTRATIVE EXPERIENCES**

- 2015-present Chairperson, Department of Life Sciences, National Cheng Kung University
- 2013-2016 Vice Dean, College of Bioscience and Biotechnology, National Cheng Kung University

## RESEARCH INTERESTS

The main theme of my research is to understand molecular mechanisms underlying gliogenesis in CNS development and in neurodegenerative disorders. The roles of neuron-glia crosstalk and inflammation are studied by an integrative genomics-based approach in my laboratory.

The major research findings in my laboratory can be divided into the following key directions:

1. Neuroinflammation in neurodegenerative disorders
2. Interplay of multiple genes governing gliogenesis and glioma tumorigenicity
3. Hypothalamic inflammation in obesity-associated mood disorders

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### Publication (\*corresponding author)

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2. Huang HT, Chen PS, Kuo YM, **Tzeng SF\***. Intermittent peripheral exposure to lipopolysaccharide induces exploratory behavior in mice and regulates brain glial activity in obese mice. *Journal of Neuroinflammation.* 2020; 17(1):163.
3. Wang CY, Deneen B, **Tzeng SF\***. BRCA1/BRCA2-containing complex subunit 3 controls oligodendrocyte differentiation by dynamically regulating lysine 63-linked ubiquitination. *Glia.* 2019; 67(9):1775-1792 (Issue Cover)
4. Sung HY, Chen WY, Huang HT, Wang CY, Chang SB, **Tzeng SF\***. Down-regulation of interleukin-33 expression in oligodendrocyte precursor cells impairs oligodendrocyte lineage progression. *Journal of Neurochemistry.* 2019; 150(6):691-708 (Issue Cover).
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13. Wang CY, Hsieh YT, Fang KM, Yang CS, **Tzeng SF\***. Reduction of CD200 expression in glioma cells enhances microglia activation and tumor growth. *Journal of Neuroscience Research*. 2016; 94(12):1460-1471.
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20. Fang KM, Yang CS, Lin TC, Chan TC, **Tzeng SF\***. Induced interleukin-33 expression enhances the tumorigenic activity of rat glioma cells. *Neuro-Oncology*. 2014; 16(4):552-566.
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