Chia-Yen Wu, PhD, MBA

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Abramson Research Center, Rm 814
Department of Neurology
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Education

Ph.D., M.B.A., Biological Sciences| Business Administration, University of Delaware, Newark, DE **2011**
Focus: Neurodegenerative disease – Spinal Muscular Atrophy
GPA: 3.52 out of 4; Published 4 first-author papers & 2 co-author papers

M.S., Neuroscience, SUNY at Buffalo, Buffalo, NY **2005**
Focus: Neuroscience, Huntington's Disease
GPA: 3.256 out of 4

M.S., Molecular Medicine, National Cheng Kung University, Tainan, Taiwan **2001**
Focus: Genetic analysis in Schizophrenia and bipolar affective disorder
GPA: 86.55 out of 100; Published 2 co-author papers

B.S., Medical Technology, Chung Shan Medical University, Taichung, Taiwan **1999**
GPA: 83.08 out of 100; Medical Laboratory Technology Certificate earned on 1999

Related Professional Experience

Team Leader **Jan ~ May 2015**
Translational Therapeutics (MTR 620), University of Pennsylvania
- Led the team "Green Leaf" to present a commercial strategy for a new drug delivery technology in the form of a startup.
- De-risk "Green Leaf" business by addressing intellectual property, regulatory, financial and management aspects.

Consultant **Sep ~ Dec 2014**
PBG Healthcare Consulting, The Wharton School of Business, University of Pennsylvania
- Perform competitive landscape and market potential analyses of a new orphan drug for a large non-profit research institute
- Performed SWOT analysis for market and client access
- Developed pricing strategy and recommended marker access strategy

Competitive Analysis & Market Research Intern/Volunteer **Sep ~ Dec 2014**
LignaMed LLC (biopharmaceutical startup in Philadelphia)
- Analyzed the competitive landscape and gather intelligence on business rivals
- Recommended a development strategy for a mechanism of action (MoA) that addresses more than one indication.

Postdoctoral Fellow **2012- Present**
The Children's Hospital of Philadelphia
- Identify a novel disease modifier for spinal muscular atrophy by using mouse and C. elegans as model organisms.
- T32 trainee funded by NIH training grant in Neurodevelopmental Disability.

Team leader **Jan ~ Apr 2011**
Corporate Strategy course (BUAD 890), University of Delaware
- Led a group of 6 to compete Capstone Business Simulation
- Incorporated team efforts and developed a strategic plan to make profitable products
- Won the highest score in Return-On-Sales (16.4%) and Contribution Margin (46.1%) in class

Selected Honor and Awards (out of 7)

Postdoctoral Training grant, T32 NIH Institutional postdoctoral training grant in Neurodevelopmental Disability (T32 NS007413), The Children's Hospital of Philadelphia. **2014-2017**

Best Graduate Student Publication Awards, Department of Biological Sciences, University of Delaware, Newark, DE. **2011**
Note: Competed with PhD students who publish first-author paper in peer-reviewed journals in department-wide competition.

Dissertation Fellowship, Office of Graduate Studies, University of Delaware, Newark, DE. **2010-2011**
Note: Nomination by the department to compete fellowship in university-wide competition.

Publications

1. **Wu CY**, Whye D, Mason R, Wang W (2012) Efficient differentiation of mouse embryonic stem cells into motor neurons. ***Journal of Visualized Experiments*** 64, e3813.
2. Zhang H, **Wu CY**, Wang W, Harrington MA (2011) Interneuronal synapses formed by motor neurons appear to be glutamatergic. ***NeuroReport*** 22(16): 809-813.
3. **Wu CY**, Curtis A, Choi Y, Maeda M, Xu MJ, Berg A, Joneja U, Mason R, Lee Kelvin, Wang W (2011) Identification of the phosphorylation sites in the survival motor neuron protein by protein kinase A. ***Biochim Biophys Acta – Proteins and Proteomics*** *1814(9): 1134-1139*.
4. **Wu CY**, Whye D, Glazewski L, Choe L, Kerr D, Lee KH, Mason RW, Wang W (2011) Proteomic assessment of a cell culture model of spinal muscular atrophy. ***BMC Neuroscience 12:25***
5. Zhang H, Robinson N, **Wu CY**, Wang W, Harrington MA (2010) Electrophysiological properties of motor neurons in a mouse model of severe spinal muscular atrophy: in vitro versus in vivo development. ***PLoS One 5(7): e11696****.*
6. **Wu CY**, Gómes-Curet I, Funanage VL, Scavina M, Wang W (2009) Increased susceptibility of spinal muscular atrophy fibroblasts to camptothecin is p53-independent. ***BMC Cell Biology:*** 10:40.
7. Southwood C, Olson K, **Wu CY**, Gow A (2007) Novel alternatively spliced endoplasmic reticulum retention signal in the cytoplasmic loop of Proteolipid Protein-1. ***Journal of Neuroscience Research*****:** 85(3): 471-478.
8. Lai TJ, **Wu CY**, Tsai HW, Lin YM, Sun HS (2005) Polymorphism screening and haplotype analysis of the tryptophan hydroxylase gene (TPH1) and association with bipolar affective disorder in Taiwan. ***BMC Medical Genetics*** 6:14.
9. Lai TJ, **Wu CY**, Fann CSJ, Chen TM, Sun HS (2002) Association study of the tryptophan hydroxylase gene polymorphism and bipolar affective disorder in Taiwan. ***Journal of Genetics and Molecular Biology*** **99(6):** 1517-30.