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**BACKGROUND**

Experience managing research project focusing on a critical protein implicated in Alzheimer’s disease. Contributing to research project involving hyperactive Fibroblast Growth Factor Receptor 3 (FGFR3) which is linked to proper cortical and hippocampal development. Strong skills in research techniques such as Western Blot analysis, molecular cloning, immunocytochemistry, and fluorescence microscopy. Motivated student preparing for entry into a reputable neuroscience graduate program and a professional career in neuroscience research.

**EDUCATIONAL EXPERIENCE**

**INDIANA UNIVERSITY BLOOMIGTON 2012-2016**

**GPA: 3.25  
Major: Neuroscience BS**

**Minor: Biology**

**Minor: Psychology**

**RELATED EXPERIENCE  
  
GILL CENTER FOR BIOMOLECULAR SCIENCE, Bloomington, IN 2015-Present**

**Student Researcher – Dr. Hui-Chen Lu Laboratory**

* Identified sites of ubiquitination of NMNAT2, a neuroprotective protein, in COS -7 cells and primary neurons.
* Investigated effects of postnatal activation of hyperactive FGFR3 in cortical barrel and hippocampal development.
* Gained experience in fluorescence microscopy, Western Blot, cell transfection, nuclear cloning, ubiquitination assays, and quantification analysis.
* Communicated preliminary results in regular laboratory presentations.

**TECHNICAL SKILLS**

**Molecular techniques:** cloning, site-directed mutagenesis, western blotting, digital PCR, in vitro ubiquitination assays, transfection, immunostaining, animal perfusion, and tissue sectioning.

**Computer/Analytical Skills:** Excel, Powerpoint, LICOR, Sequence Analysis.

**WORK EXPERIENCE**

**TETER LIBRARY, Bloomington, IN 2014-Present  
Student Assistant**

* Maintained library circulation materials and assisted patrons with research needs.
* Developed organizational and time management skills.