

CURRICULUM VITAE  
of  
**HONGYE (BOB) ZHAO**

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**EDUCATION**

**University of Rochester** Rochester, NY

2<sup>nd</sup> year PhD (September 2013–Present)

**Adelphi University** Garden City, NY

Master of Science in Biology (July 2012)

**GPA: 3.94**

**Capital Normal University** Beijing, China

Bachelor of Science in Biology (July 2007)

**GPA: 3.68**

**RESEARCH EXPERIENCE**

**University of Rochester**, Department of Pathology (June 2014 - Present)

- Advisor: Dr. David Dean
- Determine how plasmid moves within the nucleus and how this regulates gene expression.
- Laboratory Techniques: Microinjection, in situ hybridization, cell culture, immunofluorescence

**Adelphi University**, Biology Department (August 2010 - July 2012)

- Advisor: Dr. Alan Schoenfeld
- Thesis: *The effect of HIF-1 $\alpha$  in PC12 rat pheochromocytoma cells*  
Utilized a reverse-genetics approach to investigate the effect of hypoxia inducible factor (HIF) in pheochromocytoma cells. Cell lines with lowered HIF-1 $\alpha$  level were created using RNA interference system and were then analyzed for morphological and neuronal differentiation changes.
- Laboratory Techniques:  
Molecular cloning, PCR, protein analysis (SDS-PAGE, Western Blot), cell culture  
Data analysis and preparation (SPSS and Excel)

**Peking University Health Science Center**, Department of Pathology (January - June 2007)

- Advisor: Dr. Bo Zhang
- Thesis: *Localization of hALP (human N-acetyltransferase-like protein) in HeLa cells*  
Focused on the cellular localization of a gene expression in HeLa cell. Through this study, we found that NAT10 (or hALP), an activator for up-regulating telomerase activity, changed its cellular location from nucleolus to midbody during mitosis.
- Laboratory Techniques: Plasmid construction and transfection, tissue microarray-based immunohistochemistry

## **WORK EXPERIENCE**

### **Estee Lauder Co. Inc.** Melville, NY

*Chemist Intern, R & D Department* (February 2012 - May 2012)

- Participated in pilot project with team to develop new emulsion prototype in Estee Lauder Makeup Lab
- Tested weighted sunscreen formulations; adhered to FDA regulations to achieve UVA/UVB protection
- Determined optimal balance for preservatives to control bacterial levels
- Delivered presentation of results to Research and Development management
- Laboratory Techniques: Bench chemistry; sunscreen, viscosity and stability test

### **Adelphi University** Garden City, NY

*Teaching / Lab Assistant* (October 2010 - May 2012)

- Confer with professors prior to lab, assist in lab setup and cleanup of laboratory sessions
- Interact with students and engage in lab activities
- Prepare, administer, and grade practical lab exams
- Responsible for small laboratory animals' care and use
- Laboratory Techniques: Sample preparation, dissection of plants and animals, microscope, pH meter, electrophoresis, blotting techniques, cell culture, ELISA, PCR

### **China National Biotech Group** Beijing, China

*Medical Assistant Engineer* (August 2007 - April 2010)

- Used experimental design, quality tools and scientific methodology in development of new polio vaccines
- Processed GLP & GMP method development, validation and remediation
- Optimized calibration and material inspection procedures
- Handled Quality Control for neurovirulent effects on rhesus monkeys
- Communicated with manufacturing department and Drug Administration; wrote reports and maintained documents to fulfill requirements
- Responsible for laboratory animal care and use
- Laboratory Techniques: Paraffin embedded and Cryostat section, Staining, Microscopy, Chemical and biological waste disposal, Sample brain tissue, pH meter, cell culture

### **New Oriental Education Group** Beijing, China

*Tutor* (August 2005 - June 2007)

- Mentored students and guided them towards achieving high scores
- Lessons included CET ( College English Test) and spoken English