

Monica Beam

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EDUCATION

Pursuing PhD in Biomedical Engineering

Northwestern University

Current

B.S. Chemical Engineering

Stanford University

June 2005

EXPERIENCE

Northwestern University - Graduate Student

Sep. 2005 – current

Developing novel tools to study aggregation and oligomerization of proteins involved in neurodegenerative diseases specifically, polyglutamine repeat disorders and familial ALS caused by mutations in SOD1.

Stanford University - Research Assistant

June 2003-Sep. 2005

Studied the effects of OFF on osteoblast production and OPG and RANKL and their effect on osteogenesis. Used ELISA, co-culture systems, RT-PCR and western blotting techniques. Developed an immuno-staining protocol for phosphorylated FAK in MC3T3 cells.

Kyoto Sangyo University - Research Assistant

June 2004-Sep 2004

Sequenced 600bp segment of the parakeet c-jun. Performed in-situ PCR on mouse brain samples. Communicated with others in both Japanese and English.

Presentations and Posters

6th Leonard Berg Symposium Sept. 2007- Poster

“Genetic Modifiers of Polyglutamine Aggregation and Toxicity in *C. elegans*” Silva, MC and Beam, M

HDSA Meeting Oct 2007 - Poster

“Genetic Modifiers of Polyglutamine Aggregation and Toxicity in *C. elegans*” Silva, MC and Beam, M

Midwest Stress Conference Jan. 2008 – Poster

“Genetic Modifiers of Polyglutamine Aggregation and Toxicity in *C. elegans*” Silva, MC and Beam, M

Northwestern University Biomedical Engineering Department Symposium Sept. 2008 –
3rd place Poster
“Developing New Tools to Analyze the Aggregation Pathway and its Role in Toxicity”
Beam, M and Silva, MC.