

Bryan T. Bluejay
1111 Tree St. Omaha, NE 68178
000-000-0000
bryanbluejay@creighton.edu

Education

Doctor of Philosophy in Biomedical Sciences (ABD) August 20XX
Creighton University, Omaha, NE

Bachelor of Science in Microbiology May 20XX
University of Iowa, Iowa City, IA

Research Experience

Graduate Research Assistant Creighton University September 20XX - Present
Determine the effects of Cox-2 inhibition on the *in vivo* bone response to mechanical forces
Advisor: Diane Cullen

- Tibial Compression Model
- Bone Histomorphometry
- Immunohistochemistry
- ELISAs
- Quantitative PCR
- Managing Mouse Colony
- Micro Computed Tomography

Research Laboratory Technician Creighton University October 20XX - May 20XX

Researched the *in vivo* bone response to mechanical forces using the mouse tibial compression model

- Included maintaining the breeding colony with five different genotypes, experimental design, anesthesia, subcutaneous and intraperitoneal injections, tissue processing, histomorphometry, genotyping, and immunohistochemistry
- PI: Diane Cullen

Researched the effects of smoke inhalation on mouse bone marrow cell populations

- Conducted smoke study on mice, tissue collection, and processing for histomorphometry and PCR

Teaching Experience

Teaching Assistant Creighton University September - December 20XX
Teaching Practicum in Gross Anatomy

Publications

Bluejay BT, Akhter MP, Cullen DM. Cyclooxygenase inhibition on a single versus multiple mechanical loads in mice. *In preparation, 20XX*

Bluejay BT, Akhter MP, Cullen DM. Gene response to single vs multiple mechanical loads with Cox-2 inhibition. *In preparation, 20XX*

Ma D; Li Y; **Bluejay BT**; Zhao Y; Xiao J; Swanson PC; Lappe J; Xiao P; Cullen D; Akhter M; Recker R; Xiao GG. Smoke-induced signal molecules in bone marrow cells from altered low-density lipoprotein receptor-related protein 5 mice. *Journal of Proteome Research*, 20XX Jul 6; 11 (7), 3548-60

Fusby JS; Kassmeier MD; Palmer VL; Perry GA; Anderson DK; **Bluejay BT**; Alvarez GK; Cullen DM; Akhter MP; Swanson PC. Cigarette smoke-induced effects on bone marrow B-cell subsets and CD4⁺:CD8⁺ T-cell ratios are reversed by smoking cessation: influence of bone mass on immune cell response to and recovery from smoke exposure. *Inhal Toxicol*, 20XX Aug; 22 (9), 785-96

Conference Presentations

“Cyclooxygenase Response to Multiple Mechanical Loads” American Society of Bone and Mineral Research, Houston, TX. September 20XX. Abstract Accepted for Poster Presentation

“Gene Response to Mechanical Loading and Chronic Cox-2 Inhibition” Midwest Student Biomedical Research Forum, Omaha, NE. Feb 16, 20XX. Poster Presentation

“Cox-2 is Not Essential for the Bone Formation Response to Long Term Tibial Compression in Mice” American Society of Bone and Mineral Research, Minneapolis, MN. October 20XX. Poster Presentation

“Cox-2 Inhibition Suppresses the Bone Response to Mechanical Loading in Mice” St. Albert’s Day Student Research Forum, Omaha, NE. March 28, 20XX. Poster Presentation

“Time Course of Bone Response to Smoke Exposure in Cortical Bone” American Society of Bone and Mineral Research, San Diego, CA. September 20XX. Poster Presentation

“Cox-2 Inhibition Suppresses the Response to Short Term Tibial Compression in Mice” American Society of Bone and Mineral Research, San Diego, CA. September 20XX. Poster Presentation

“Lrp5 Receptor and PGE₂ in Bone Response to Mechanical Loading” St. Albert’s Day Student Research Forum, Omaha, NE. April 5, 20XX. Oral Presentation

“Lrp5 Receptor and PGE₂ in Bone Response to Mechanical Loading” Midwest Student Biomedical Research Forum, Omaha, NE. Feb 19, 20XX. Oral Presentation

“Lrp5 Receptor and PGE₂ in Bone Response to Mechanical Loading” American Society of Bone and Mineral Research, Toronto, Ontario, Canada. October 20XX. Poster Presentation

“Differential Effects of Parathyroid Hormone (PTH) and Tibial Compression on Bone Formation with Variation in Lrp5 Expression” American Society of Bone and Mineral Research, Denver, CO. September 20XX. Poster Presentation

“Bone Response to Mechanical Loads and Lrp5 Genotype” American Society of Bone and Mineral Research, Montreal, Quebec, Canada; September 20XX. Poster Presentation

Professional Organizations

American Society of Bone and Mineral Research, 20XX-Present

American Association for the Advancement of Science, 20XX-Present

President, Graduate Student Government, Creighton University, 20XX

Vice-President, Graduate Student Government, Creighton University, 20XX

Service

Eastern Nebraska Office on Aging, Omaha, NE	20XX - Present
Holy Cross Church, Omaha, NE	20XX - Present
Habitat for Humanity, Omaha, NE	20XX, 20XX
St. Stephen’s Center, Omaha, NE	20XX
Relay for Life, Creighton University, Omaha, NE	20XX
Heartland Hope Mission, Omaha, NE	20XX
St. Vincent DePaul Shelter, Omaha, NE	20XX