

**Lindsey Aubrey Cunningham, Doctoral Candidate**  
**303.319.6518 • [lindsey.cunningham@vai.org](mailto:lindsey.cunningham@vai.org)**  
**833 Clancy Ave NE, Apt#1 Grand Rapids. MI 49503**

**Education:**

**Van Andel Institute Graduate School (VAIGS)** Grand Rapids, Michigan August 2014-present  
Ph.D. Molecular and Cellular Translational Science  
Laboratory of Molecular Neurodegeneration, under Dr. Darren Moore, Van Andel Research Institute Center for Neurodegenerative Science

Thesis title: LRRK2-induced Neurodegeneration via Retromer Deficiency in Parkinson's Disease;  
Comprehensive exam sustained March 9<sup>th</sup>, 2016

Skills:

- Stereotaxic brain injection (rat, mouse)
- Brain dissection
- Cell culture
- Primary neuronal culture
- Western blot
- Co-immunoprecipitation
- Cylinder behavior testing
- Perfusion
- Yeast spotting assay and transformation
- Immunohistochemistry
- Immunofluorescence

Conferences: Society for Neuroscience October 2015, Chicago IL; Grand Challenges September 2014, Grand Rapids, MI; Grand Challenges September 2015, Grand Rapids, MI, poster

**Northern Arizona University** Flagstaff, Arizona August 2008 - May 2012

BS Biology, Minor in Chemistry Biomedical Emphasis

Cumulative GPA: 3.94 Magna cum Laude

Liberal Studies Honors

NAU Women's Ultimate Captain and Club President

NAU Club Sports Executive Counsel

Awards:

Dean's list (GPA 3.5+) all years attending

Western Undergraduate Exchange Scholarship

Ralph and Pauline Armond Memorial Scholarship 2010 (Awarded for Merit)

Eugene and Margery Bayless Endowed Scholarship 2012 (3.5+ GPA, completion of significant research project near publication/ presented at scientific meeting)

Gold Axe Nomination Spring 2012

**Fairview High School** Boulder, Colorado August 2004-May 2008

Awards:

Knight of the Round Table: Awarded to 13 out of a class of 480 for outstanding achievement in academic, community, and leadership roles.

Principal's Honor Role: GPA 3.0+ all four years. Graduate GPA 4.5

Link Commissioner: Organize 100 upper classmen to welcome and mentor 500+ freshmen

Volleyball and soccer team captain

**EXPERIENCE:**

**Reproductive Endocrinology**

Animal Care Technician June 2010- August 2010

Dr. Catherine Propper 928.523.1374 [Catherine.Propper@nau.edu](mailto:Catherine.Propper@nau.edu)

Abstract: The effects of hormones found in wastewater on the reproductive habits of aqueous frogs and fish.

Tasks: Animal care (aquatic frogs and fish), chemical and equipment inventory and cleaning

## **Study of Genomic Instability in Disomic Yeast (*Saccharomyces cerevisiae*) (NACP)**

Research Technician August 2010 – May 2012

Dr. Alison Adams (PI) 928.523.2381 Alison.Adams@nau.edu

Dr. Melissa Schonauer (Post Doc) 520.861.7861 Melissa.Schonauer@nau.edu

Abstract: A study of genomic instability in relation to translocation events. As genomic instability is a trait of cancerous cells the purpose was to observe the relative rate of instability following a translocation event. To do this, full and partial markers were placed in each chromosome of disomic yeast strains to create and track translocations while maintaining a viable cell.

Tasks: Basic molecular biology skills (gel electrophoresis, DNA purification, yeast cloning and transformation, genomic preps, plating, PCR)

Poster presentations:

- NAU's Undergraduate Research Exchange Symposium (2011 and 2012)
- Native American Cancer Prevention (NACP) retreat (2011)

## **Senestech Inc.®**

Field Research Technician March 2012 – September 2013

Dr. Loretta Mayer, Dr. Cheryl Dyer (928) 779-4143 INFO@SENESTECH.COM

Abstract: Development of oral bait for humane animal population management via follicle depletion.

Tasks (Lab): Rodent husbandry, euthanization, dissection and necropsies. Additional projects such as updating crisis management plan, ergonomic risk management program, and occupational safety and health program, supply ordering and preparation. Some practice of *in vitro* culture, bait production, and experimental planning.

Tasks (Field): Population and bait consumption studies of subway rats for six months in New York City. Took part in experimental design, preparation, problem solving and analysis of tracking plates, camera and direct observation. As well as media relations and interviews.

Publication, accepted and in print: "Liquid Anti-Fertility Bait Takes by Urban Rats within New York City Subway Refuse Rooms" Brandy Pzyzna, Lindsey Cunningham, Elissa Calloway, Dave Cowan, Cheryl Dyer, Loretta Mayer

## **Other Employment:**

**Peak Form Physical Therapy Personal Assistant** May 2009– August 2009

Jeanette Hrubes 720.939.1058 jeanette@peakformpt.com

Physical therapist aide, receptionist, and personal assistant to owner.

**NAU Student Learning Center** January 2011 – February 2011

Melissa Welkers 928.523.3796 Melissa.Welker@nau.edu

Tutored: cellular, multicellular, and molecular biology, anatomy and physiology, math through calculus I, medical nutrition, general chemistry (I&II), and organic chemistry (I&II)

## **MCAT**

- May 31<sup>st</sup> 2012: 290 (68.0-73.7%): Verbal Reasoning 11 (83.5-95.4%), Physical Sciences 8 (41-54.5%), Biological Sciences 10 (57.7-77.0%), and Writing sample O (40.2-52.9%)
- August 23<sup>rd</sup> 2012: 30Q (73.8-79.0%): VR 11 (83.5-95.4%), PS 08 (41-54.5%), BS 11 (77.1-88.8), WS Q (62.9-83.7%)

## **GRE**

- November 15th 2013 - VR 161, QR 153, W 4.0