

scored, under review. Role: PI (\$500,000, 4 years, direct cost)

2. **National Institutes of Health.**

Status: under review. (\$100,000; 2 years, direct costs). Role: PI

Current Funding

1. **Alaska IDeA Network of Biomedical Research Excellence (INBRE) Pilot Research Project**

Award: Developing nicotinic acetylcholine receptor subtype selective peptides derived from the rabies virus. **Status: Funded**, Aug 2021 - Aug 2023. (\$150,000). Role: PI

2. **New faculty startup funds** (\$130,000, Aug 2017 - current). Role: PI

Completed

1. **Alaska IDeA Network of Biomedical Research Excellence (INBRE) Pilot Research Project**

Award: Pharmacology and function of nicotinic receptors altered by an epilepsy model. **Status: Funded**, Aug 2019 - Aug 2021 (\$75,300, 1 year with carryforward). Role: PI

- 4. AY2019-20. Biomedical Learning and Student Training (BLaST)**
 - Shelly Thao (Undergraduate, Chemistry) \$ 26,597
 - Shane Bennett (Undergraduate, Biology) \$26,597
 - James McKay (Undergraduate, Biology and Physics) \$5,000
- 5. AY2018-19. Praxis internship program, Smith College**
 - Helen Danielson (Undergraduate, Bioengineering) \$3,000 (Summer 2019)
- 6. AY2018-19. Biomedical Learning and Student Training (BLaST)**
 - Shelly Thao (Undergraduate, Chemistry) \$5,000 (AY18-19)
 - James McKay (Undergraduate, Biology and Physics) \$5,000 (AY18-19)
- 7. Su 2019. Alaska IDeA Network of Biomedical Research Excellence (INBRE)**
 - James McKay (Undergraduate, Biology and Physics) \$9,000 (Summer 2019)
 - Shelly Thao (Undergraduate, Chemistry) \$9,000 (Summer 2019)
- 8. AY2017-18. Biomedical Learning and Student Training (BLaST)**

- of the alpha7 nicotinic acetylcholine receptor. Society for Neuroscience 2021. Virtual. November 2021.
5. **Weltzin MM***, Danielson H***, Suarez S**. Sleep-related Hypermotor Epilepsy-Associated Mutation Disrupts Native Modulator VILIP-1. Society for Neuroscience 2021. Virtual. November 2021. ACS Northwest Regional Meeting. Virtual. May 2021.
 6. Suarez S**, Danielson H***, **Weltzin MM***. Epilepsy Associated Mutation Disrupts VILIP-1 Modulation of Nicotine Receptors. American Association for the Advancement of Science (AAAS) Annual Meeting. Virtual. February 2021.
 7. Thao S***, Spain C***, Hueffer K and **Weltzin MM***. Rabies viral glycoprotein inhibition of neuronal nicotinic acetylcholine receptor subtypes. Society for Neuroscience 2019. Chicago, IL. October 2019.
 8. McKay J***, Smith T**, and **Weltzin MM***. An Examination of Nocturnal Frontal Lobe Epilepsy Associated Mutations in Subtypes of Neuronal Nicotinic Acetylcholine Receptors. Society for Neuroscience 2019. Chicago, IL. October 2019.
 9. Hueffer K, Thao S***, Spain C*** and **Weltzin MM***. Inhibition by rabies glycoprotein neurotoxin like peptide differs between nicotinic acetylcholine receptor subtypes. 30th Annual Rabies in the Americas. Chicago, IL. October 2019.
 10. **Weltzin MM**, George AA, Lukas RJ and Whiteaker P. Occupation of the alpha4(+)/alpha4(-) subunit interface enhances function of the low sensitivity alpha4beta2nicotinic acetylcholine

Associated Mutation in Subtypes of Neuronal Cholinergic Receptors. Neuroscience 2019.
Chicago, IL. October 2019.

Alaska Fairbanks, November 2016.

- **Neuroscience Guest Lecturer**, Department of Biomedical Sciences, Midwestern University, March - April 2014.
- **Neuroscience Guest Lecturer**, Department of Biomedical Sciences, Midwestern University, April 2013.
- **Biochemistry Guest Lecturer**, Department of Chemistry, University of Alaska Fairbanks, May 2013.
- **Substitute Teacher**, Fairbanks North Star Borough School District, September - December 2011. Taught students in K-12 grades.
- **Graduate Teaching Assistant**, UAF Department of Chemistry, January - May 2007
Taught undergraduate Chem 105 chemistry laboratory courses. Responsibilities included preparing the laboratory, lecture, one-on-one student help and grading.

- **Student Advising**

Student	Date	Current Position or Degree Earned
<i>Graduate Students</i>		
Lahra Weber	Aug 2021 - current	Graduate Student (MS)
	Aug 2020 - current	Graduate Student (PhD)
Sarah Suarez	Aug 2019 - current	Graduate Student (PhD)
Tyler Smith	Aug 2018 - 2022	MS
Viktorija Podlutskaya	Dec 2020 Aug 2022	MS
<i>Undergraduate Students</i>		
Aggy Boldt	March 2023- current	Undergraduate Student
Gabriel Miller	March 2023- current	Undergraduate Student
Racheal Ware	May - August 2022	Undergraduate Student
Joey Harun-Delong		

Graduate Student Committees

2023 - current	Thesis Committee, Committee member, Vy Nguyen, Biochemistry and Molecular Biology, UAF (MS)
2023 - current	Thesis Committee, Committee member, Leilani Megliola, Biochemistry and Molecular Biology, UAF (MS)
2022 - 2023	Thesis Committee, Committee member, Zixuan Yan, Pharmaceutical Sciences with specialization in Pharmacology, Northeastern University (MS)
2021 - current	Thesis Committee, Chair , Lahra Weber, Biochemistry and Molecular Biology, UAF (MS)
2020 - 2022	Thesis Committee, Chair , Viktorija Podlutskaya, Biochemistry and Molecular Biology, UAF (MS)
2020 - current	Thesis Committee, Chair Biology, UAF (Ph.D)
2019 - current	Thesis Committee, Chair , Sarah Suarez, Biochemistry and Molecular Biology, UAF (Ph.D)
2018 - 2022	Thesis Committee, Chair , Tyler Smith, Biochemistry and Molecular Biology, UAF (M.S.)
2019 - current	Thesis Committee, Committee member, Moriah Hunstiger, Biochemistry and Molecular Biology, UAF (Ph.D)
2018 - 2020	Thesis Committee, Committee member, Viktorija Podlutskaya, Biochemistry and Molecular Biology, UAF (M.S.)
2018 - current	Thesis Committee, Committee member, Bernard Laughlin, Biochemistry and Molecular Biology, UAF (Ph.D)
2017 - 2022	Thesis Committee, Committee member, Jishnu Krishnan, Biochemistry and Molecular Biology, UAF (Ph.D)

PROFESSIONAL DEVELOPMENT

- NCURA webinar on NSF and NIH C&P/Other Support updates, virtual, April 2023
- UAF Promotion, Tenure, and Career Success Workshop, UAF, April 2023
- UAF Proposal Development Workshop, UAF, April 2022
- ACS invited talk, May 2021
- UAF Proposal Development Workshop, UAF, April 2021
- NSF CAREER Panel Webinar/Workshop, UAF, March 2021
- NSF CAREER Panel with UAF Awardees, UAF, March 2021
- Clinical Trial Training Seminar Series, UAF, February 2021
- UAF 16th Annual Promotion, Tenure, and Career Success Workshop, UAF, April 2021
- Pa

2018

- Dealing with difficult students workshop, UAF, October 2017
- Received training in single channel patch clamp analysis software QuB in Dr. Anthony - 11, 2013
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HONORS

- UNAC travel award, January 2023
- Alaska INBRE travel award, August 2022
- BLaST Scientist of the Month, October 2020
- Nominated for the Robert Piacenza Excellence in Teaching Award, Spring 2020
- Alaska INBRE travel award, October 2019
- Alaska BLaST travel award, July 2019
- Alaska INBRE developmental resear

- Reviewed Graduate student INBRE research fellowship applications. UAF, Sp 2019
- Guest lecture for CHEM 105. UAF Fa 2017
- Grand Judge volunteer at the Intel International Science and Engineering Fair, Phoenix, AZ, May 8 - 13, 2016
- Volunteer showcasing the laboratory research and techniques to high school students, Phoenix, AZ, November 2015

PUBLIC SERVICE

- Fairbanks North Star Borough Air Pollution Control Commissioner, Fairbanks, AK 2017 - current

PROFESSIONAL MEMBERSHIPS

- Biophysical Society, 2022 - current
- Society for Neuroscience, 2008 - current