



Maria Fernanda Veloz Castillo

PHD STUDENT

CONTACT



Name

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SOCIAL



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GRANTS & AWARDS

Travel Grants

Dean's Travel Award

June 2023; KAUST, KSA

American Chemical Society
National Meeting

August 2018; Boston, USA

Atlantic Basin Conference on
Chemistry

January 2018; Cancun, Mexico

American Chemical Society
National Meeting

August 2017; Washington DC, USA

Awards

Outstanding Student Chapter

Best American Chemical Society

student chapter for three

consecutive academic years (2015 –
2018)



RESEARCH EXPERIENCE



2021 to date **The Role of Astrocyte Energy Metabolism in Memory Stability**

King Abdullah University of Science & Technology (Saudi Arabia) and University of Turin (Italy)



2018 to 2020 **The effect of aging on the spatial distribution of glycogen in Layer I somatosensory cortex of mice**

King Abdullah University of Science & Technology (Saudi Arabia)



2018 **Chemical synapses of the central nervous system**

Universidad de las Américas Puebla and CINVESTAV (Mexico)



2016 to 2018 **Use of magnetic nanoparticles as drug carriers to the brain**

General Hospital Dr. Manuel Gea González (Mexico)



2015 to 2018 **Development of nano-carriers for brain delivery**

Universidad de las Américas Puebla (Mexico)



EDUCATION



2021 to date **PhD Bioscience**

King Abdullah University of Science and Technology

Advisor: Prof. Pierre Magistretti

Academic Scholarship



2021 to date **PhD Neuroscience**

University of Turin

Advisor: Prof. Corrado Cali



2018 to 2020 **M.Sc. Bioscience**

King Abdullah University of Science and Technology

Advisor: Prof. Pierre Magistretti

Track: Cellular and molecular biology (GPA 3.5/4)



2013 to 2018 **B.Sc. Nanotechnology and Molecular Engineering**

Universidad de las Américas Puebla

Advisor: Prof. Miguel Ángel Méndez Rojas

Academic Excellence Scholarship (GPA 9.4/10)

Undergraduate Student Researcher



2013 to 2018 **B.Sc. Chemistry**

Universidad de las Américas Puebla

Advisor: Prof. Miguel Ángel Méndez Rojas

Academic Excellence Scholarship (GPA 9.3/10)

Undergraduate Student Researcher



SKILLS



Research



Communication



Organization



Creativity



Problem-solving



Leadership

INTERESTS



Traveling



Gymnastics



Music & Podcasts



Reading

TRAININGS & CERTIFICATIONS



- 2019 **FELASA Accreditation on Care and Use of Laboratory Animals**
FELASA & Department of Biology, University of Crete
Accredited on functions A, B, C, D and modules 20, 21, 22, 23 in mice, rats, and zebrafish.
- 2022 **Bioenergetics for Brain Function**
Cajal Advanced Neuroscience Training at Bordeaux School of Neuroscience
Theoretical and practical course addressing the different ways in which energy metabolism participates in high-order brain functions.
- 2019 **Bio-methodology of the Laboratory Mice**
Charles River Laboratories
Certified training in safe and humane animal handling, restraint, substance administration, blood sampling, anesthesia, euthanasia, and necropsy.



ACADEMIC PRESENTATIONS

- 2024 **Optimization of anesthesia and microwave fixation conditions for biochemical and morphological studies of glycogen metabolism after behavioral tests**
Neuroscience 2024, Society for Neuroscience (Chicago, USA)
- 2024 **Spatial distribution of glycogen in layer 1 of the somatosensory cortex in aging mice**
Connectomics Conference – Max Planck Institute from Brain Research (Berlin, Germany)
- 2022 **The Effects of Anesthetics on Glycogen Concentration in Microwaved-Fixed Brain Samples**
5th Brainstorming Research Assembly for Young Neuroscientists (Rome, Italy)
- 2020 **Nano-neuroscience: Use of nanotechnology in a model of Parkinson's Disease**
Universidad Popular Autónoma del Estado de Puebla (Online)
- 2020 **Use of computational tools to evaluate the glycogen distribution in the somatosensory cortex of aged mice**
3rd Brainstorming Research Assembly for Young Neuroscientists (Online)
- 2018 **Biocompatible magnetic nanoparticles as intranasal drug delivery carriers for the brain**
Atlantic Basin Conference on Chemistry (Cancun, Mexico)



EXTRACURRICULAR ACTIVITIES

- Since 2024 **Training Advisory Committee, Society for Neuroscience**
As member of the committee I participate in discussions to provide guidance to the SfN council on issues central to younger SfN members.
- 2022-2024 **International BraYniacs at BraYn Association**
Member of the international team of the association. In charge of selection and evaluation of poster presentations, as well as the coordination of social media.
- 2022 **FENS Social Media Ambassador**
Creation and publication on social media content related to FENS and FENS Forum 2022.
- Since 2020 **Member of Wikimedia Mexico**
Editor of Wikipedia in english and spanish. Editing mainly about science and women in STEM.
- Since 2013 **Science Outreach**
Contributor in book and science fairs performing scientific demonstrations, workshops and lectures.