



Maria Fernanda Veloz Castilla

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



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

Theoretical and practical course covering methods of safe and humane handling and restraint, substance administration, collection of blood samples, anesthesia, euthanasia, and necropsy.

ACADEMIC PRESENTATIONS



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)

2020

The effect of aging on the spatial distribution of glycogen in Layer I somatosensory cortex of mice

2nd Brainstorming Research Assembly for Young Neuroscientists (Milan, Italy)

2018

Biocompatible magnetic nanoparticles as intranasal drug delivery carriers for the brain

Atlantic Basin Conference on Chemistry (Cancun, Mexico)

2018

Nanoparticles for Brain Drug Delivery: Design, Synthesis, Characterization and Biological Evaluation

American Chemical Society National Meeting (Boston, USA)

2017

Biocompatible magnetic nanoparticles as intranasal drug delivery carriers for the brain

National Congress of Chemistry and Chemical Education (Puerto Vallarta, Mexico)

EXTRACURRICULAR ACTIVITIES



2023

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 2015

American Chemical Society, student member

Founder of the 2nd student chapter in Latin America. Roles: Event coordinator(2017 – 2018), President(2016 – 2017), Secretary (2015 – 2016). Organizer of ACS on Campus in Puebla, Mexico (2018).

Since 2013

Science Outreach

Contributor in book and science fairs performing scientific demonstrations, workshops and lectures.