

Muhammad Ali Haidar

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Education

PhD in Neurobiology and Behavior Freie Universität Berlin	[04/2022 – present]
MSc in Biochemistry American University of Beirut GPA: 3.97/4	[09/2019 – 08/2021]
BSc in Medical Laboratory Sciences University of Balamand GPA: 3.49/4	[09/2016 – 06/2019]

Professional and Research Experience

Research Assistant Freie Universität Berlin – Lab of Dr. Gerit Linneweber <ul style="list-style-type: none">Explore origins of Individuality using <i>Drosophila Melanogaster</i> by investigating different circuitry involved in circadian rhythm, learning and memory	[04/2022 – present]
Volunteer Content Editor NeuroTechX Content Lab <ul style="list-style-type: none">Work with other volunteer writers to turn their pitches into well-drafted and ready-to-publish pieces for NTX Medium.	[2021 – present]
Research Associate American University of Beirut – Lab of Dr. Firas Kobeissy <ul style="list-style-type: none">Assessed possible neurotherapies in a controlled cortical impact (CCI) mouse model using behavioral and molecular approaches	[08/2021 – 02/2022]
Molecular Technologist Doctorate School of Science and Technology – Lebanese University <ul style="list-style-type: none">Performed RNA extraction of different sample types followed by RT-qPCR testing and analysis.Optimized different molecular kits involved in SARS-CoV-2 testing	[10/2020 – 10/2021]
Graduate Teaching Assistant Department of Biochemistry and Molecular Genetics – American University of Beirut <ul style="list-style-type: none">Provided course assistance in two courses: a) Cellular Metabolism and b) Protein Biochemistry.	[01/2020 – 12/2020]

Conferences and Presentations

<i>Travel Award: IBRO-MENA School on Clinical Neuroscience from Bench to Bedside</i> <i>1st Prize Winner of the Student Presentations Competition</i>	[11/2021]
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Skills

In-vivo Skills

Animal Handling (Mouse and D.
Melanogaster)
Animal Surgery
Stereotaxic Surgery

Microscopy

Confocal Microscopy
2-Photon Imaging

Other

R Language
Python
Machine Learning

Soft Skills

Project management
Presentation
Writing skills
Problem-Solving
Research skills
Leadership
Mentoring

Behavioral and Molecular Testing

Publications

- **Haidar MA**, Shakkour Z, Barsa C, Tabet M, Mekhjian S, Darwish H, Goli M, Shear D, Pandya JD, Mechref Y, El Khoury R, Wang K, Kobeissy F. Mitoquinone Helps Combat the Neurological, Cognitive, and Molecular Consequences of Open Head Traumatic Brain Injury at Chronic Time Point. *Biomedicines*. 2022; 10(2):250. <https://doi.org/10.3390/biomedicines10020250>
- **Haidar MA**, Jourdi H, Haj Hassan Z, et al. Neurological and Neuropsychological Changes Associated with SARS-CoV-2 Infection: New Observations, New Mechanisms. *The Neuroscientist*. January 2021. doi:10.1177/1073858420984106
- **Haidar MA**, Shakkour Z, Reslan MA, Al-Haj N, Chamoun P, Habashy K, Kaafarani H, Shahjouei S, Farran SH, Shaito A, Saba ES, Badran B, Sabra M, Kobeissy F, Bizri M (2022) SARS-CoV-2 involvement in central nervous system tissue damage. *Neural Regen Res* 17(6):1228-1239.
- **Haidar MA**, Ibeh S, Shakkour Z, Reslan M, et al. Crosstalk between Microglia and Neurons in Neurotrauma: An Overview of the Underlying Mechanisms. *Current Neuropharmacology*.
- Tabet M, El-Kurdi M, **Haidar MA**, et al. Mitoquinone Supplementation Alleviates Oxidative Stress and Pathologic Outcomes Following Repetitive Mild Traumatic Brain Injury at a Chronic Time Point. *Experimental Neurology*. January 2022. <https://doi.org/10.1016/j.expneurol.2022.113987>.
- Hasan H, Abdelhady S, **Haidar MA**, Fakih C, El Hayek S, Mondello S, Kobeissy FH, Shaito A. Rodent Models of Methamphetamine Misuse: Mechanisms of Methamphetamine Action and Comparison of Different Rodent Paradigms. *Methods Mol Biol*. 2019;2011:221-250. doi: 10.1007/978-1-4939-9554-7_13. PMID: 31273702.
- Maha Tabet, Mohammad Amine Reslan, **Muhammad Ali Haidar**, Hawraa Issa, et al. Stem Cells in Traumatic Brain Injury: From Experimental Model to Bedside, running title, a book chapter of "Neuroscience of Traumatic Brain Injury". *Elsevier Publishing*.
- Samar Abdelhady, Hawraa Issa, Ohanes Ashekian, **Muhammad Ali Haidar**, et al. Autoantibodies of Traumatic Brain Injury, running title, a book chapter of "Neuroscience of Traumatic Brain Injury". *Elsevier Publishing*.