PERSONAL DETAILS

Name:	Yehya Barakat
Pronouns:	They/Them
Degrees:	Master of Science, Bachelor of Pharmacy Sciences
Residential Address:	131 Pioneer Farm Way, Ellsworth, Maine, 04605, US
Mobile:	617-378-2480
E-mail Address:	yehya.barakat@jax.org

OBJECTIVE

Utilize genetics and large genomic information to unravel better and more accurate drug targets for treatment of drug resistant neuropsychiatric disorders. I aim to gain knowledge needed through career opportunities and graduate programs to bring recognition to undiagnosable disorders such as limerence behavior; an abnormal disorder rooting in obsession and infatuation.

EDUCATION HISTORY

Aug. 2020 – Present	**Tufts University** in collaboration with **Jackson Labs**, Neuroscience PhD Program. Bar Harbor, ME.
Sept. 2017 – May 2019	**Tufts University**, Sackler School of Biomedical Sciences, Pharmacology and drug development master's program. Boston, MA. Current GPA: 3.94
Oct. 2010 – July 2015	**Yarmouk University College,** Baghdad, Iraq, Bachelor of Pharmacy in Pharmaceutical Sciences. GPA: 3.07

WORK EXPERIENCE

Sep. 2019- July 2020	**Klaus Miczek lab**, Tufts University, Medford, MA, US Research Technician • Collected ultrasonic vocalization from rats for machine learning software Rat chat • Started up Deeplabcut and SimBA tools for the lab
July 2016- May 2017	**Al Karkh General Hospital**, Baghdad, Iraq Clinical Pharmacist
Feb. 2017- Jun. 2017	**Juman Al Harthiya Pharmacy**, Baghdad, Iraq Pharmacist
Nov. 2016- Feb. 2017	**Arkan Sabah Pharmacy**, Baghdad, Iraq Pharmacist

LAB EXPERIENCE

May 2021 – Current	**Vivek Kumar Lab**, Jackson Labs, Bar Harbor Thesis work • Investigating the role of Ssc4d and Kpna3 in age dependent hyperactivity disorders.
Mar. 2021 - May 2021	**Elissa Chesler Lab**, Jackson Labs, Bar Harbor Rotation • Carried out RNA seq analysis on two brainstem nuclei to assess differential gene expression in animals with different responses to opioid induced respiratory depression.
Oct. 2020 – Jan 2021	**Vivek Kumar Lab**, Jackson Labs, Bar Harbor Rotation • RNA seq analysis of mutant mice showing age dependent hyperactivity disorder • Carried out drug sensitization assays on mice in open field • Helped training social behavior classifiers for JABS machine learning tool.
Aug. 2020 – Oct. 2020	**Catherine Kaczororwski Lab**, Jackson Labs, Bar Harbor Rotation • Gained troubleshooting experience with electrophysiology and learned whole cell patch clamping.

Jan. 2018 – May 2019	**Leon Reijmers Lab,** Tufts University, Boston
	Rotation + Thesis Work
	• Examined local dendritic mRNA translation in CA1 neurons of hippocampus in mouse models of fragile X syndrome through RNA-sequencing
Sep. 2017- Jan. 2018	**Klaus Miczek Lab**, Tufts University, Medford
	Rotation
	• Examined chronic alcohol induced aggression in mice and tested the effects of glutamate receptor antagonists in ameliorating this behavior.

SKILLS

Languages: Arabic (Native) English (Fluent) French (Working knowledge)

Interpersonal Skills Mentoring, Team player, Able to deal with stress efficiently, Organized, Creative, strong communication skills.

Data Skills: R, DESeq, Genome wide analysis, Unix script command line, Rqtl2.

Mouse Behavior: Fixed interval, mice handling, intraperitoneal injection, fear conditioning, brain harvesting, microdissection, intracardial perfusions, oral gavage.

Laboratory Skills: RNA Handling, Translating Ribosome Affinity and Purification (TRAP), cDNA Synthesis, RT-qPCR, RNA Bioanalysis, cDNA Library Preparation, Cryostat Sectioning, Immunohistochemistry.

LEADERSHIP ROLES & OTHER CONTRIBUTIONS

May. 2018 – May 2019	**Student Representative,** Tufts University, Boston
	GSBS Pharmacology and drug development program
Sep. 2018-May 2019	**Teaching Assistant,** Tufts University, Boston
	Translational Pharmacology Course
March 2020	**SimBA and Deeplabcut overview presentation,** Tufts University, Medford
	Presentation given to the Ressler Lab from Harvard University
April 2021	**Investigating respiratory brainstem nuclei in OIRD susceptible and resistant mouse strains**
	JAX CAB-CSNA, Jackson Labs while rotating with Elissa Chesler