Thesis Project of Class-2021 Graduates

Student	Title of Project	Supervisor
Victoria Giang	"Adverse Childhood Experiences and Their Implications on Performance in Professional Education"	Dr. Titus-Lay
Brittany Gillespie	"Analysis of RELT Family Member Expression and Mechanism of Inducing Cell Death"	Dr. Cusick
Caroline Goswami	"Development of cell-based infectious system for Hepatitis B virus through automated immunofluorescence studies"	Dr. Ahmed El-Shamy
Mary Jabari	"HIV Coreceptor Activity of some Naturally Occurring Point Mutations in the Human CC Chemokine Receptor 5 Isolated from HIV Seropositive and Seronegative Individuals"	Dr. Alkhatib
Prasanth Kurup	"Association of Antipsychotics and Interstitial Lung Disease: A Pharmacovigilance Study using Disproportionality Analysis"	Dr. Kreys
Hannah Neiger	"Identification of Novel Drug Targets in BRCA1-Deficient Breast Cancers"	Dr. Shi
Austin Qiu	"Pharmacodynamics of Antibacterials During Co-Culture of Pseudomonas Aeruginosa and Carbapenem-Resistant Klebsiella Pneumoniae"	Dr. Lenhard
Micheal Roche	"Extending the σ-Hole Motif for Sequence-Specific Recognition of the DNA Minor Groove"	Dr. Abdelbasset Farahat
Michelle Senderovich	"Hematopoietic Protein RELT Expression Examined in Cancer Cell Lines"	Dr. Cusick
Olivia Wu	"Establishing and Optimizing an HIV/SARS-CoV-2 Spike Protein Pseudovirus"	Dr. Ahmed El-Shamy

Thesis Project of Class- 2022 Graduates

Students	Title of project	Supervisor
Muhammad Karabala	"Screening GPCR-Antagonists Bisflouro Compounds for HIV Inhibitory Activity on Cells Expressing R5"	Dr. Ghalib Alkhatib
Dawnica Nadora	"The Effect of Isosorbide Diester Based Moisturizer on the Skin Health of Eczema Patients"	Dr. Ahmed El-Shamy
Anh Nguyen	"Combined CAR-T cell therapy"	Dr Yihui Shi
Katherine Arnott	"SiREn (Simulation of Receptors and Enzymes): An Interactive Simulation of Enzyme Kinetics and Pharmacodynamic Models"	Dr. Jose L. Puglisi
Priya Manhas	"A Cell Culture Based Model for the Screening of Anti-Hepatitis B Virus Activity of Natural Compounds"	Dr. Ahmed El-Shamy
Jonathan Clement	"Exploiting mitochondrial vulnerabilities to induce immunogenic death in tumor cells"	Dr. Eslam Mohamed
Kanika Gulia	"Design, Synthesis, and Antimicrobial Evaluation of Novel Diamidines containing Compounds"	Dr. Abdelbasset Farahat
Yousef Karabala	"Screening GPCR-Antagonistic 2,3- difluoro Derivatives for HIV Inhibitory Activity on Cells Expressing CCR5 and CXCR4"	Dr. Ghalib Alkhatib
Christiane How-Volkman	"Gender Disparity and COVID-19 Disease Outcome: In vitro Pilot Study"	Dr. Ahmed El-Shamy

Thesis Project of Class 2023 Graduates

Student	Title of Project	Supervisor
Ryan Lovell	" Development of Novel Hypoallergenic Peanut Allergoids by Crosslinking the Immunodominant Peanut Protein Ara h 2"	Dr. Eslam Mohamed
Abtin Anvari	" Development of Heterocyclic Cations for Mixed Recognition Sequences on the DNA Minor Groove"	Dr. Abdelbasset Farahat
Christopher Lane	" Screening the Anti-Hepatitis B Virus Activity of Biological Venom Library by High- Throughput Immunofluorescence Assay"	Dr. Ahmed El-Shamy
Lawrence Santos	" Impact of Bee Venom on Hepatitis B Virus Infectivity"	Dr. Ahmed El-Shamy
Thomas Rodriguez	"Exploring the role of mitochondrial unfolded protein response (mt-UPR) in human macrophages under endoplasmic stress and tumor conditions"	Dr. Eslam Mohamed
Carter Bernal	" Sex Disparities Concerning Disease Outcome Amongst SARS-CoV-2 Infection: In vitro Pilot Study"	Dr. Ahmed El-Shamy
Kishore Bharadwaj	" Characterizing Herd Immunity Through Cellular Automaton Models"	Dr. Jose Puglisi

Thesis Project- Class 2024

Student	Title of Project	Supervisor
Shaumik Patil	"Studying core fucosylation in human macrophages exposed to tumor factors"	Dr. Eslam Mohamed
Michelle Chiu	"Synthesizing Novel Arah2 Allergoid through crosslinking reactions to develop a peanut allergy vaccine".	Dr. Eslam Mohamed
Madison Spencer	"The Characterization of Ciliary Proteins in Human Sickle Cell Disease".	Dr. Ashraf Mohieldin
Ashutosh Rai	"Design, Synthesis, and Anti-Acanthamoeba Biological Evaluation of Novel Bis-Amidino Benzimidazole Diphenyl Ether."	Dr. Abdelbasset Farahat