



Capstone Project of Class- 2021 Graduates

Student	Title of Project	Supervisor
Amir Bakhshi	"Incidence of Hepatocellular Carcinoma After Clearance of Hepatitis C Virus"	Dr. Ahmed El-Shamy
Angela Penney	"Utilizing Urushiol Leaf Extract as an Effective Vaccine Against Poisonous Toxicodendron Plant Species"	Dr. Kotchoni
Arya Asghari	Sources and Types of Collagen Supplements"	Dr. Kotchoni
Bahaar Muhar	"SARS-CoV-2 (COVID-19) Vaccine Race: The Various Types and their Strengths and Weaknesses"	Dr. Kotchoni
Dorsa Heydarlou	"Effects of Collagen Supplements on the Skin and Wound Healing"	Dr. Kotchoni
Emily Mahyor	"Ecogeographical Characterization and Phytochemical Properties of Antiviral Plant Species for Health Promoting Benefits"	Dr. Kotchoni
Gagandeep Singh	"Uncontrolled complement activation during SARS-CoV-2 infection"	Dr Hongbin Wang
Joshua Anwuli	"Lipid Nanoparticles as An Effective Drug Delivery System (DDS)"	Dr Kotchoni
Mahboubeh Chermahini	"Gallstone Diseases: An Overview and Herbal Treatment"	Dr. Abdelbasset Farahat
Natali Chavez	"A Comparison of Current and Potential Gene Therapy Candidates for the Treatment of RPE65-Associated Leber's Congenital Amaurosis"	Dr. DiSibio
Satori Iwamoto	"Compound Shape Effects in Minor Groove Binding Affinity and Specificity for Mixed Sequence DNA-A simplified approach"	Dr. Abdelbasset Farahat
Shayla Moore	"Role of PCSK9 in Vascular and non-vascular diseases"	Dr. Islam Mohamed
Thuy Lang	"3D Printing Technology in Individualized Medicine: Recent Process of Combining Multiple pills into one Tablet"	Dr Kotchoni
Tina Reamaroom	"Beneficial Effects of Little-Known Medicinal Plant Species: Genus Zanthoxylum"	Dr. Kotchoni
Yuan Der Su	"Biologics and Biosimilars for Treatment of Cardiovascular Diseases and Diabetes Mellitus"	Dr. Islam Mohamed

Capstone Project of Class- 2022 Graduates

Student	Title of Project	Supervisor
Milo Aviles	"Immune system perturbations associated with COVID-19 severity."	Dr. Eslam Mohamed
Justin Roh	"The Clinical Efficacy of SARS-CoV-2 Vaccines between Immune Dominance and Resurgence of Variants"	Dr. Eslam Mohamed
Hailey Cordua	"Evaluation of Mycotoxin Related Illness and Disease Markers in the Genome"	Dr. Guy DiSibio
Tiffany Wong	"Health-Promoting Benefits of Natural Products Against Psoriasis"	Dr. Hongbin Wang
Shikha Patel	"HBV Reactivation in HBV/HCV Co-infected Individuals"	Dr. Ghalib Alkhatib
Olaoluwapo Omoleke	"Software Simulation of Immunology Concepts"	Dr. Jose L. Puglisi
Farah Hakim	"Autism Spectrum Disorder: Symptoms, Main Causes and Treatment"	Dr. Abdelbasset Farahat
Beeta Boushehri	"HPV Vaccines for the Prevention of Non-Melanoma Skin Cancer"	Dr. DiSibio
Sadaf Zarechian	"The Development of Future Anti-Influenza Agents Through Compounds Containing 5-Membered Heterocycles"	Dr. Abdelbasset Farahat

Capstone Project of Class -2023 Graduates

Student	Title of Project	Supervisor
Troy Smith-Bova	"Cancer vaccines: past, present, and new approaches for immunotherapeutic"	Dr. Hongbin Wang
Joshua Kim	"SARS-CoV-2 Vaccination and Its Clinical Complications"	Dr. Hongbin Wang
Arleigh-Ann Byer	"Oncolytic Viruses: The Future of Antitumor Therapy"	Dr. Ahmed El-Shamy
Allison West	"The Connection Between Systemic Lupus Erythematosus and the Complement System"	Dr. Hongbin Wang
Karina Cruz Munos	"Alopecia: Risk Factors and Modern Treatment"	Dr. Abdelbasset Farahat
Hanaa Khan	"A systematic Review on the Prevalence, Risk Factors, and High Impact of Long- COVID in Middle Aged Women"	Dr. Ahmed El-Shamy
Mia Borlongan	"Profiling and targeting of cancer stem cells as cancer therapeutics"	Dr. Hongbin Wang
Annalia Ferrer	"Recent Antipsychotics Medications Used to Treat Schizophrenia: Synthesis and Overview"	Dr. Abdelbasset Farahat
Tristan Motoyoshi	"The Role of Complement Components and Membrane Bound Complement Regulatory Proteins in Tumor Metastasis"	Dr. Hongbin Wang
Fatemeh Shahbazi	"Obesity Treatment"	Dr. Abdelbasset Farahat

Capstone Project- Class 2024

Student	Title of Project	Supervisor
Jackson Donald	“Exploring Long COVID: An In-Depth and Updated Review”.	Dr. Ahmed El-Shamy
Ashley Boeninghaus	“Application of Nanotechnology in drug delivery”	Dr. Hazem Ali
Valeria Molina Castillo	"Complement Anaphylatoxin C3a and its Role in Cancer Progression".	Dr. Hongbin Wang
Savoy Key	“Harnessing Turkey Tail Mushrooms: A Natural Adjunct in Cancer Treatment”	Dr. Tibebe Woldemariam
Vaniya Qureshi	“What Role does PCOS Play in CVD and DM Predisposition and development: A systematic Review.”	Dr. Islam Mohamed
Ammar Lee-Fowler	“Sickle Cell Disease - Impact on Stages of Development”	Dr. Abdelbasset Farahat
Hunter Hudgins	"Complement Anaphylatoxin C5a and its Role in Cancer Progression".	Dr. Hongbin Wang
Lin Tian	“Harnessing Mitohormesis by targeting LONP1 and CLpP proteases to Combat Cancer: From Mechanisms to Therapeutic Opportunities.”	Dr. Eslam Mohamed
Priscilla Amador	“Harnessing Mitohormesis by targeting LONP1 and CLpP proteases to Combat Cancer: From Mechanisms to Therapeutic Opportunities.”	Dr. Eslam Mohamed
Emily Waddle	“Innovative Nanomedicine: The Impact of Extracellular Vesicles and Nanoparticles.”	Dr. Ashraf Mohieldin
Bisma Khan	“Innovative Nanomedicine: The Impact of Extracellular Vesicles and Nanoparticles.”	Dr. Ashraf Mohieldin
Kiara Gunawardhana	“Immunotherapeutic approaches for peanut allergy”	Dr. Eslam Mohamed
Gurprit Kaur Garcha	"Remyelination As a Therapeutic Target in the Treatment of Multiple Sclerosis"	Dr. Mohamed Ahmed
Reggie Fan	“Therapeutic Advances of Prostate Cancer: Apropos of a Case”	Dr. Ruth Vinall
Dustin Pu	“Nanotechnology for Virus Treatment”	Dr. Ahmed El-Shamy
Stanley Wiernicki	“Nanotechnology for Virus Treatment”	Dr. Ahmed El-Shamy
Fayez Siddiqui	“ Markers for Atherosclerotic Plaque Instability and Rupture.”	Dr. Mohamed Ahmed
Lina Ly	"Deciphering the Genetic Link between Familial Hypobetalipoproteinemia and Neuromuscular Disorder: A Clinical Case Report"	Dr. Islam Mohamed
Arjun Kohli	"3D Printing and Nano Application"	Dr. Jose Puglisi