

2018 Arab-American Frontiers Fellows

Big Data Analytics for Smart Cities: Towards a Joint Africa Smart Cities Center”

Visiting Fellow: Dr. Mohamed Abid, Alakhawayn University, Morocco

Host Fellow: Dr. Satish Ukkusuri, Purdue, United States

Drug Discovery Techniques (Drug Library Screening) for Neurological Disease

Visiting Fellow: Dr. Randa Abu-Youssef, Alexandria University, Egypt

Host Fellow: Dr. Hang Hubert Yin, University of Colorado Boulder, United States

Establishment and Characterization of Patient-Derived Circulating Tumor Cells: Modeling Prostate Cancer Through 3D Spheroid and Organoid Cultures

Visiting Fellow: Dr. Wassim Abou-Kheir, American University of Beirut, Lebanon

Host Fellow: Dr. Mohammad Qasaimeh, NYU-AD, United Arab Emirates

Mining Public Microbiome Big Data for Drug-Microbe Interactions and Expanding the PharmacoMicrobiomics Database

Visiting Fellow: Dr. Ramy Aziz, Cairo University, Egypt

Host Fellow: Dr. Atul Butte, University of California, San Francisco, United States

Nanotechnology-Enhanced Phase-Change Heat Transfer in Harsh Environment

Visiting Fellow: Dr. TJ Zhang, Masdar, United Arab Emirates

Host Fellow: Dr. Nenad Miljkovic, UIUC, United States

New Development for Wastewater Treatment

Visiting Fellow: Dr. Ramia Albakain, University of Jordan, Jordan

Host Fellow: Dr. Antoine Ghauch, American University of Beirut, Lebanon

Plant Genome Editing with Nanotechnologies in Food-Relevant Crops

Visiting Fellow: Dr. Markita Landry, Regents University of California, United States

Host Fellow: Dr. Salim Al-Babili, King Abdullah University for Science and Technology, Saudi Arabia

Pulling it Together: Applying Molecular Tension Probe Technology for the Study of Cell Migration

Visiting Fellow: Dr. Lubna Tahtamouni, Hashemite University, Jordan

Host Fellow: Dr. Khalid Salaita, Emory University, United States

Predictive and Prognostic Value of Circulating microRNA in Stage IV Colorectal Cancer

Visiting Fellow: Dr. Rihab Nasr, American University of Beirut, Lebanon

Host Fellow: Dr. Shannon Stott, Harvard Medical School, United States

Study of the Efficacy of the Fluorinated Sodium Montmorillonite Nafmt “Rassoul” Clay Based Filters in Removing Biological Agents and Pathogens.

Visiting Fellow: Dr. Asmae Khaldoun, Alakhawayn University in Ifrane, Morocco

Host Fellow: Dr. Kartik Chandran, Columbia University, United States

Use of Smart Water and Energy Metering for Sustainable Groundwater Management

Visiting Fellow: Dr. Ali Mirchi, University of Texas El Paso, United States

Host Fellow: Dr. Adel Zghibi, University of Tunis El Manar, Tunisia