2018 Arab-American Frontiers Fellows

Big Data Analytics for Smart Cities: Towards a Joint Africa Smart Cities Center
Visiting Fellow: Dr. Mohamed Abid, Alakhawyn 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

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