



THE AMERICAN UNIVERSITY IN CAIRO

الجامعة الأمريكية بالقاهرة

AUC International Conference on Research in African Challenges (ICRAC)

Track S: Science contribution to alleviating poverty

SUB-TRACK S5: HOLISTIC REORIENTATION OF RESEARCH AND EDUCATION

FROM CURATIVE TO PREVENTIVE

Chair: Dr. Dr. Hassan Elfawal,

Co-chairs: Dr. Mouhanad Hamami

Medicinal plants have been utilized in all societies as a wellspring of drug. Traditional medication utilized plant, animal and mineral-based drugs, spiritual treatments, manual procedures and activities to treat, diagnose and avert illnesses. In spite of the advancement accomplished in the most recent decades with present day therapeutic and pharmacological items and new restorative innovation, in Africa, up to 80% of the population depends on traditional medicine for their essential health care needs. Despite the fact that not constantly fruitful or successful, traditional medication used to keep up great health, and additionally to anticipate, diagnose, enhance or treat physical and psychological illnesses with basic strategies and a huge range of natural items isolated from plants, animals and in some instances microorganisms. Natural medications that were used to treat various illnesses for long time have given significant incentive to the cutting edge pharmaceutical industry over the past 50 years, especially in the fields of infectious diseases and oncology. Reverse pharmacology approaches enlivened by traditional medicine offered a discerning procedure for new drug discoveries and encouraged for the improvement of sound synergistic plant preparations. In this sub-track we feature the advancement accomplished in the most recent decades by traditional medicine and its appropriation by the World Health Organization and the World Health Assembly. Additionally, how the natural products utilized in the past gave a valuable platform to the advancement of pharmaceutical industry. Besides, safety worries for traditional medication use will be discussed by a board of specialists.

Biographies

Hassan A. N. El-Fawal is Professor of Neuroscience, Toxicology and Pharmacology and Dean of the School of Sciences and Engineering at the American University in Cairo (AUC). Prior to joining AUC, he was Professor of Pharmaceutical Sciences and Dean of the School of Health Sciences at Albany College of Pharmacy and Health Sciences in New York. He was previously Assistant Chair and Chair of Natural Sciences and Professor of Health Sciences at Mercy College from 1997 to 2009. The focus of his research is diagnostic and prognostic neuro-immune biomarkers of neurodegeneration, neurotoxicity and therapeutics. He earned a B. Sc. from Alexandria University, Egypt in 1979, and a M.Sc. from the University of Guelph in Canada. His Ph.D. in Biomedical Sciences, was earned at Virginia Tech in 1989. From 1989 to 1997 he worked as Research Assistant Professor at NYU School of Medicine's Institute of Environmental Medicine.

Dr. Mouhanad Hamami, M.D. a graduate of Aleppo University, Syria, Dr. Hammami completed his postdoctoral research in Pediatrics at the Newborn Center of the University of Tennessee in Memphis, and then



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accepted a faculty appointment at Wayne State University School of Medicine in Detroit, Michigan and a research position at the Detroit Medical Center, Department of Pediatrics. In 2006 he was granted the American Medical Association (AMA) foundation for Excellence in Medicine and Leadership award for his public health advocacy and community work. He is listed in the Marquis 2006-2007 Who's Who in Medicine and Healthcare, Strathmore's 2006-2007 Who's Who in Healthcare and Madison's Who's Who in the World 2008 - 2009. He was awarded the "Health Policy Champion Award" by the Michigan Department of Community Health in 2011. Dr. Hammami served as Executive Director of the National Arab American Medical Association (NAAMA) from 2006 to 2009 and then elected as national president for 2011. He currently serves as the Chief of Health Operations of Wayne County Department of Health and Human Services and County Health Officer for Wayne County where he oversees all health related operations for the 13th largest County in the Nation.