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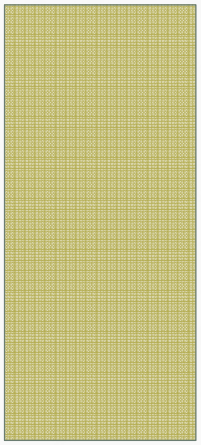
DR. MOBEEN RAJA (UNIVERSITY OF TORONTO)



DR. MOBEEN RAJA BIOGRAPHY

- Mobeen Raja is a research scientist in the field of membrane transport proteins and ion channels and their roles in health and diseases, like type-2 diabetes or cystic fibrosis. He received his PhD in biophysical chemistry and molecular physiology from Max-Plank-Institute for Molecular Physiology, Dortmund, Germany. He carried out his postdoctoral fellowship in the field of potassium channels awarded by the Federation of European Biochemical Socities (FEBS). He also received a prestigious Marie-Curie Intra-European Fellowship. He is serving as an editorial board member of international journals and reviewer of more than 5 journals. Number of research publications and review articles: 25. Reviewer of EMBO Journal/Report, Nature Protocols, Biophysical Chemistry, Biochimie etc.

DR. MOBEEN RAJA RESEARCH INTERESTS

- Dr. Mobeen Raja's is interested in structure-function studies of membrane protein transporters (glucose transporters), potassium ion channels and their roles in health and genetic diseases. He has been involved in understanding the mechanism of genetic mutations, protein-protein/drug/inhibitor/activator and protein-lipid interactions by utilizing molecular/cellular biology, membrane biology, mutagenesis, biochemistry, bioinformatics and proteomics approaches.

MOST RECENT PUBLICATIONS AUTHORED BY DR. MOBEEN RAJA

- Special interaction of anionic phosphatidic acid promotes high secondary structure in tetrameric potassium channel. J Membr Biol 2014 Aug 15;247(8):747-52. Epub 2014 Jul 15.

- SLC5 and SLC2 transporters in epithelia-cellular role and molecular mechanisms. Curr Top Membr 2012 ;70:29-76

- Structural insights into genetic variants of Na(+)/glucose cotransporter SGLT1 causing glucose-galactose malabsorption: vSGLT as a model structure. Cell Biochem Biophys 2012 Jun;63(2):151-8

WHAT IS PROTEOMICS

- The science that deals with the study of the role, structure, function and interaction of proteins is Proteomics
- These Proteins are the active biological agents in the cell

APPLICATION OF PROTEOMICS

- Biomarker Discovery
- Cancer Research
- Disease Diagnosis
- Cardiovascular research

BIOMARKER DISCOVERY

- Proteomics is extremely beneficial study in identification of a measurable biological indicator of a specific biological state which has the potential to improve the patient survival rate affectively i.e. biomarkers.
- Metabolites and antibodies are also used as biomarkers in genomics, transcriptomics

CANCER RESEARCH

- Analysis of differential expression of proteins in the diseased tissue and the normal tissue help in the cancer research
- Identification of the proteins is useful as diagnostic markers for the early detection of disease, can be used as drug targets and for the development of novel therapeutic agents

DISEASE DIAGNOSIS

- Being a very powerful tool proteomics help researchers to develop diagnostic predictors for CNS injury and also help in mapping the changes in the functional and structural changes in proteins and to identify new targets for drug, helps in the diagnosis of neurological failure
- Combing the methodologies such as 2D-gel electrophoresis and mass-spectrometry has enabled scientists to quantify proteins in the diseased and normal physiological state of the kidney tissue thus help in the diagnosis of renal diseases
- Qualitative and quantitative indication of changed protein expression in a complex of protein samples is possible due to the different techniques of proteomics, thus helps in the screening of diabetes research

CARDIOVASCULAR RESEARCH

- Proteomics techniques for cardiovascular disease diagnosis are characterized by the molecular mechanism of the disease.
- Till date more than 40 altered proteins levels have been identified for cardiovascular proteomics experiments
- Due to upregulation or downregulation of specific genes alter the protein levels in the chronic conditions

Mobeen Raja

Journal of Proteomics & Bioinformatics
Related Journals

- Transcriptomics: Open Access
- Journal of Pharmacogenomics & Pharmacoproteomics
- Journal of Data Mining in Genomics & Proteomics

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