



Nawab Ali, PhD
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Academic interests: Biochemistry, cell and molecular, and membrane biology.

Research Focus & Techniques of Expertise: Research is directed towards understanding receptor mediated signal transduction and intracellular signaling mechanisms in relation to environmental changes or in disease states. This involves role of G-proteins and their receptors, second messengers such as inositol polyphosphates, cyclic nucleotides (cAMP, cGMP), protein kinases and phosphatases in regulation of cellular processes. Major emphasis is on subcellular fractionation, identification and characterization enzymes and their metabolites, microscopy, vesicular membrane trafficking, protein-protein interactions and cellular regulation of apoptosis. The laboratory is equipped with state of the art Luminex-100 for multiplexing, DNA sequencing, HPLC, Real-time PCR, microscopy, mammalian cell culture facility etc.

Grants

Grant P3-108: Metabolic & genomics empowered platform for phytochemical and gene network discovery in *Medicago truncatula*.

PI: Hong Li Wang; **Co-PI's:** Xiuzhen Huang, Stephen Grace & **Nawab Ali**

Grant P3-202: Regulation of Specialized (“Secondary”) Metabolism in Tomato by Genetic Manipulation of the Phosphoinositol Pathway”

PI: Mariya Khodakovskaya; **Co-PIs:** Stephen Grace, **Nawab Ali**, Fabricio Medina-Bolivar