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KOTA V RAMANA, PHD

http://bmb.utmb.edu/faculty/ramana.asp
Dr. Ramana is a Professor at Department of Biochemistry and Molecular Biology, University of Texas Medical Branch, Galveston, TX-USA. The chief objectives of his investigations are to examine the involvement of cellular metabolism and oxidative stress signals in inflammation and to delineate the role of aldo-keto reductases in the inflammatory pathways. He uses various genetic, biochemical and cell biological approaches to analyze inflammatory responses regulated by cellular metabolites in various inflammatory pathologies such as sepsis, uveitis, asthma and cancer. He has published more than 105 peer reviewed articles. He is also serving as an editorial board member of 25 other journals and reviewer of several journals.
RESEARCH INTERESTS

Oxidative stress signaling in Inflammation, role of polyol pathway in diabetic cardiovascular complications, Biochemical and molecular interactions of lipid aldehydes with proteins and DNA and cytokine and chemokine signals in various inflammatory diseases such as diabetes, asthma, sepsis, cancer and uveitis.
Activation of NF-κB is a major cause of inflammation and inhibition of NF-κB prevents many inflammatory diseases.
Aldose reductase regulates polyol pathway of glucose metabolism and lipid aldehyde mediated cell signaling.
Aldose reductase (AR) mediates NF-κB signals.

Aldose reductase inhibition prevents oxidative stress signals

1. Molecular Pharmaceutics & Organic Process Research

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