OMICS Group
Conferences
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4th International Conference on
Proteomics & Bioinformatics
August 04-06, 2014   Hilton-Chicago/Northbrook, Chicago, USA

Searching kinase-specific phosphoproteome for novel serum biomarkers

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Serum biomarkers have the potential to serve as valuable tools in cancer diagnosis and prognosis. However, identifying potential candidates that would serve as robust biomarkers has been difficult. The abundance of serum Protein Kinase A (PKA) has been shown to vary during cancer progression. Although the molecular significance and function of PKA in the serum is unclear, following the dynamic status of serum PKA levels together with phosphorylation status of serum PKA substrates during cancer progression has the potential to accurately predict disease progression in patients. Here, we will review strategies to identify PKA substrates in the serum and determine their phosphorylation status during cancer progression. These studies will help uncover new serum biomarkers and also help unravel the role of extracellular PKA.

Biography

Achuth Padmanabhan has completed his PhD from University of Maryland Baltimore County and is currently doing postdoctoral training from Yale University School of Medicine. He has published papers in reputed journals and also serves as an editorial board member of repute for many international journals.

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J Proteomics Bioinform 2014

ISSN: 0974-276X, JPB an open access journal

Proteomics-2014
August 04-06, 2014

Volume 7, Issue 8

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