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EDITORIAL COMMENT

CELL SIGNALING TO SYSTEMS BIOLOGY

Numerous remarkable achievements in the past decade have exponentially increased our knowledge of the dynamic biochemical processes involved in the cellular communication and response. Cell programs, through multiple relay chains, a signal-response system that is critical for normal cell growth, development and defined fate of cell. However, these programmed cellular networks go awry due to genetic or epigenetic changes, altered cell-environment, cell-cell interactions, cell-pathogen interactions that may lead to numerous diseases. In spite of the remarkable progress, we only know a fraction of how complex bio-molecular networks functions as dynamical systems that regulate biological systems. Mechanisms involved in signal transduction processes within and interacting cells is an intensely active field of modern biomedical research, which is believed to open novel strategies of therapeutic intervention. As *VRI Cell signaling* Editor, I intend to build *Cell Signaling* as the reliable and respected resource for current and advancing knowledge regarding regulation, signaling, trafficking and cell response to the internal or external stimulus that translates to improved diagnosis, prognosis, and treatment.

VRI Cell Signaling is a peer-reviewed, open access, international e-journal that will encompass all basic and translational aspects of cell signaling, communications and response in both malignant and normal conditions, and will intend to not only fast-forward the targeted therapy development across diseases, but also to understand the pathogenesis involved. *VRI Cell Signaling* will strongly encourage key research papers that will advance our understanding of signaling cascades, communications and cell behavior by looking at morphological, biochemical, and structural changes through molecular and cell biology approaches, preclinical *in silico*, *in vitro* and *in vivo* models, as well as interdisciplinary work in the rapidly expanding areas of synthetic biology, computation and mathematical models of regulatory networks, data sets relevant to cellular regulation, signaling networks, and systems biology.

I am confidant that VRI *Cell signaling* will become a premier venue and platform for basic and translational scientists alike to move information rapidly and effectively into improved patient care. To attract the best articles that have broader significance in the area of cell signaling and regulation, we believe that commitment to rapid, constructive and fair review process is paramount. Papers are and will be selected for publication in *VRI Cell Signaling* on the basis of their importance and broad interest to scientists engaged in the area of cellular regulation, communication and response that are likely to find application in a diverse range of investigations in multiple biological systems. To that end, we will be continually adding distinguished senior editors, editorial board members and experts as scientific reviewers, nationally and internationally, to reflect the many disciplines within cell signaling processes to conduct peer review and help publish those articles that refine our current understanding in this area and advance the biomedical research. While making better use of Internet, we also plan to periodically add exciting new features and sections to facilitate easier access to articles, and provide forums for sharing rapid international preclinical and clinical information to reflect biomedical advances.

In sum, the cellular complexity is daunting with highly regulated multilayered networks, often intertwined with many signaling cascades in a crosstalk between parallel systems. However, with our continuous expanding knowledge through integration of genomics, kinomics and proteomics with systems biology in addition to the development of novel sophisticated technologies to visualize and model these networks quantitatively, has never offered greater promise of transforming diagnosis and treatment than it is today. I believe the future of biomedical research holds great promise. It is an honor and privilege to serve *VRI Cell Signaling*. I want to take this opportunity to extend my invitation to our readers, authors and reviewers to join me, and the distinguished scientists who serve as editors and editorial board members of *VRI Cell Signaling* to pursue through this journal our ultimate goal of finding new cures and understating of pathological conditions.

Amit K. Tiwari, PhD
Editor
VRI Cell Signaling

Editor's Column

Dr. Amit K. Tiwari is an Assistant Professor at Tuskegee University and leads a program in Cancer Pharmacology and Systems Therapeutics. By using genomic analysis and pharmacokinetic/ pharmacodynamics approaches Dr. Tiwari intends to probe molecular and signaling pathways at systems level and build quantitative models to translate these findings in improving and new anticancer drug development against solid and hematological malignancies. He is an Editor and Editorial board member of number of journals and is an Ad Hoc reviewer of over 40 journals in the area of Pharmacology and Experimental Therapeutics. Dr. Tiwari has presented his findings at several national and international forums and conferences and has authored over 40 peer-reviewed articles, abstracts, reviews and book chapters in last 5 years.

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