



Research Symposium | 2016-11-01 | Abstracts

MASSIVELY INTERACTING BIOLOGICAL SYSTEMS

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Panelists: Madhav Marathe - Director and Professor, Biocomplexity Institute

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Traditional scientific approaches based on the study of a single element have failed to generate knowledge on the interactions among all the components of a system. High dimensional data technologies allow cataloging (almost) all the components or subcomponents of a biological entity and rely heavily on computational-driven analyses to unveil how they are interconnected. Understanding how the different subunits of biological systems operate is basic for elucidating mechanisms of diseases and developing new and more refined treatments.

In this panel we will discuss the current status and limitations of bioinformatics and mathematical modeling (data-driven approaches and mechanistic modeling) applied to Biomedical research.

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