



MARK YOUR CALENDARS: DECEMBER 13-14, 2012 CONFERENCE

Toward the 3D Virtual Cell

UNIVERSITY OF CALIFORNIA, SAN DIEGO

Translational biology is faced with cyber-infrastructure challenges related to data accessibility, software development, software reuse and sustainability on scales not seen before. We are challenged to creating new algorithm development and analysis tools that can operate on an increasingly large, diverse, complex and widely distributed body of digital biological data.

AREAS TO BE EXPLORED

- Structure-based modeling
- Visualization
- Whole cell modeling
- Pathway modeling
- Neurological modeling
- Ontologies and Tools for modeling
- Modeling big data
- Software engineering workflows for modeling
- New modes of education and dissemination

CONFERENCE OUTCOMES

- Recognizing the scientific challenges
- Identifying today's tools for cellular modeling
- Defining needed developments in algorithms, visualization, software paradigms, workflow development, education and more...

STEERING COMMITTEE

Philip Bourne, Ph.D., PI, University of California, San Diego

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UC San Diego has been awarded this grant for planning activities leading to a design for an NSF S212 Institute for Translational Systems Biology (ITSB) that emphasizes biological 3-dimensional (3D) structures from molecule to cell and addresses the sustainability challenge.

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