

## Special Interest Group: Information Challenges in the Age of Biomarkers

Organizers: Jim McGurk (Daiichi Sankyo), Brenda Yanak (Merck),  
Richard Somes (Pfizer), Juergen Hammer (Roche),  
Eric Neumann (Clinical Semantics Group)

Dates: Tuesday 13<sup>th</sup> October 2009 all day and Wednesday morning  
14<sup>th</sup> October 2009. Welcome dinner Monday 12<sup>th</sup> October 2009

Location: Pfizer, New London, CT

### ABSTRACT

Pharmaceutical discovery and development efforts are attempting increasingly to discover and validate signals in genetic, genomic, proteomic (and indeed other -omic) and bioimaging data that can be used to identify and validate biomolecular targets, discover patient cohorts that are responders (or non-responders) or that are at risk for adverse reactions to a drug. Such signals - biomarkers - can be used to direct discovery activities, enhance development processes by reducing the scale and cost of clinical trials and diminishing the risk of adverse drug reactions.

The demands that these emerging biomarker technologies place on information management systems are unprecedented both in terms of the volume and heterogeneity of data. To respond effectively to the needs of their scientific customers, information management organizations will need to understand this rapidly evolving landscape from a number of perspectives including:

- The demands that will be placed on physical IT infrastructure for data transfer, storage and archiving
- The requirements for increasing computational capacity imposed by modeling and simulation, the analysis of biological networks, and data mining
- Data interchange requirements for linking heterogeneous data together to enable patient profiling
- The role public data sources and pre-competitive collaborations will have in ensuring that essential data and tools are available



The objective of this PRISM Forum Special Interest Group (SIG) is to bring together opinion leaders in this area to discuss how existing and emerging technologies (both hardware and software) can be used to meet the analytical, data storage and data communication challenges of biomarker discovery, development and validation.

This SIG will begin with a discussion of the scientific and business questions a biomarker discovery project will need to address. The remainder of the meeting will focus on specific hardware, software and data exchange solutions which can be brought to bear to address these critical, emerging needs.

PRISM Forum Special Interest Group - [www.prismforum.org](http://www.prismforum.org)  
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Hosted by Pfizer in New London, CT

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