

different laboratories across the world," said Dr Leroy Hood, Institute for Systems Biology and Keynote Speaker at the Symposium. "We are now undertaking a systems approach to prion disease in mice. We use Cytoscape visualizations to illustrate how dynamically changing networks in the brain can explain much of the known pathophysiological behavior of this degenerative brain disease. Cytoscape also helps to illustrate how little we actually understand about many additional mechanisms that this disease employs."

Cytoscape has two parts, a Core and a set of Plug-ins, or extensions. Currently, there are over 35 plug-ins that provide Cytoscape with an extremely rich set of functions beyond its core network functionality. Many plug-ins have been written by third party developers across the world. For example, Agilent Technologies has developed two freely available plug-ins, the Agilent Literature Search Tool and the soon to be released Agilent VistaClara Tool. This new plug-in enables highly interactive visual analysis of gene and protein expression data that enables the user to view details and global context simultaneously.

"Agilent has found in its own work that it is important to be able to work across organizational boundaries, sharing emerging understanding in the form of models or networks," said Annette Adler, Project Manager, Agilent Technologies and Cytoscape Consortium member. "Cytoscape provides us with an extremely powerful prototyping tool to use in our own research with collaborators, allowing a full range of collaborations without license restrictions. We believe in supporting emerging standards such as Cytoscape since tools like this will make diagnostics and drug discovery and development more effective. We are very pleased to be able to actively contribute to this open-source community and assist in Systems Biology developments worldwide."

About Cytoscape

Cytoscape is a publicly-available bioinformatics resource for integration, visualization, and query of biological networks to derive computational models. Its central organizing metaphor is a network graph, with genes or proteins represented as nodes and intermolecular interactions represented as links between nodes. The Cytoscape core is extended through a straightforward plug-in architecture, allowing rapid development of advanced computational analyses and features. At present, 35 Cytoscape plug-ins are actively supported and available at www.cytoscape.org/plugins; numerous others exist as proprietary or experimental software. Importantly, the majority of plug-ins have been written by third-party developers not directly affiliated with the Cytoscape project, and approximately 15 plug-ins have themselves been published as stand-alone methods papers.

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