UNIVERSITY OF DELAWARE

CENTER FOR BIOINFORMATICS & COMPUTATIONAL BIOLOGY

BIOINFORMATICS SEMINAR

LARS JUHLS JENSEN

Professor

UNIVERSITY OF COPENHAGEN

NETWORK BIOLOGY

Networks are a powerful abstraction for modeling the interplay between the many proteins within a cell. In this lecture, I will first cover the core concepts of network biology, which are essential background for anyone working with networks. I will then introduce the STRING database, a resource that integrates a wide range of evidence types for both physical protein interactions and function associations. This includes predicted interactions, interactions from other public databases, and automatic text mining of the biomedical literature. Hands-on exercises for STRING are available at https://jensenlab.org/training/string/.

BIOGRAPHY

Lars Juhl Jensen started his research career in Søren Brunak's group at the Technical University of Denmark (DTU), from where he in 2002 received the Ph.D. degree in bioinformatics for his work on non-homology based protein function prediction. During this time, he also developed methods for visualization of microbial genomes, pattern recognition in promoter regions, and microarray analysis. From 2003 to 2008, he was at the European Molecular Biology Laboratory (EMBL) where he worked on literature mining, integration of large-scale experimental datasets, and analysis of biological interaction networks. Since 2009, he has continued this line of research as a professor at the Novo Nordisk Foundation Center for Protein Research at the University of Copenhagen and as a founder, owner, and scientific advisor of Intomics A/S.

He has authored and co-authored more than 200 scientific publications that have received over 30,000 citations in total. He was awarded the Lundbeck Foundation Talent Prize in 2003, his work on cell-cycle research was named "Breakthrough of the Year" in 2006 by the magazine Ingeniøren, his work on text mining won the first prize in the "Elsevier Grand Challenge: Knowledge Enhancement in the Life Sciences" in 2009, and he was awarded the Lundbeck Foundation Prize for Young Scientists in 2010.

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11:15AM-12:05PM

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