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DEPARTMENT OF BIOMEDICAL INFORMATICS  
HARVARD MEDICAL SCHOOL

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## Revisiting Protein Interaction Networks: New Methods for Cross-species, Functional, and Splicing Analyses



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Protein interaction networks have long been used to help understand the mechanisms underlying complex diseases, providing insights into the pathways and processes disrupted in disease states. In this talk, I will present three new computational methods—ETNA, ANDES, and Splitpea—that revisit how these networks can be leveraged in integrative ways to reveal novel insights. Together, these methods extend the utility of protein-protein interaction networks beyond gene and pathway perturbation analyses. (Full abstract and bio online.)

**Monday, March 17, 2025 • 2:00–3:00pm**

**Countway Library • Minot Room (5th Floor) • Zoom option**

**The DBMI Open Insights Seminars** are occasional research talks related to the mission of the Department of Biomedical Informatics. This includes themes such as:

- Provisioning big data to the scientific community
- Getting the big picture on human health
- Learning from each patient
- Advancing basic science with data science
- Understanding disease beyond heredity: environmental impact
- Instrumenting the health enterprise for discovery and intervention



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