

Driving innovation between academic and industrial organizations showcasing the toxicogenomics collaboration



IBRI is a new applied research institute in Indiana that was created to bridge the gap between academic and industrial organizations. The Center for Applied Data Sciences is one of the core centers of the institute with a focus on data access, data cleaning and integration, and novel analytics to attack challenging life sciences problems. This talk will provide a brief overview of the IBRI, 16-Tech (the future home of the IBRI), the Center for Applied Data Sciences and its collaborations. A specific case study, the Collaborative Toxicogenomics Platform will be reviewed in more depth. This collaboration is developing a shared platform to deliver harmonized analysis methods to identify and quantify potential compound toxicity from transcriptomic data. The scientific goals of this collaboration are to expose current industrial experience and decision-making tools, enable multiple standard technologies to be run consistently, and to move to an evidenced-based biological understanding of transcriptomic data. The platform will provide a shared collaborative platform for multiple users, leverage open-source tools and methodologies, and ultimately placed in the public domain for community-based future improvements.

DANIEL ROBERTSON

RESEARCH FELLOW
VP OF DIGITAL TECHNOLOGY
DIRECTOR OF THE APPLIED DATA SCIENCES CENTER
INDIANA BIOSCIENCES RESEARCH INSTITUTE



DORSEY LEARNING HALL
LUDDY HALL, ROOM 1106



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