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HumanBase: A portal for data-driven predictions of gene function, regulation, and interactions

Friday, October 26, 2018 9:00 AM (1h 30m)

HumanBase (hb.flatironinstitute.org) is a comprehensive resource for biomedical researchers interested in exploring expression, function, regulation and interactions of human genes, particularly in the context of specific tissues/cell-types and human disease. Data-driven integrative analyses underlying HumanBase are especially powerful because they reach beyond existing "biological knowledge"represented in the literature to identify novel associations that are not biased toward well-studied areas of biomedical research. HumanBase integrates data from more than 38,000 genomic experiments and more than 14,000 scientific publications to uncover genes'tissue-specific function and roles in disease, inter-relationships between genes, and the gene expression effects of genetic variants. We will discuss how HumanBase addresses an unmet need among biologists, the development of the web-based system, and the challenges and pitfalls of developing this public resource.

Primary author: WONG, Aaron

Presenters: WONG, Aaron; FUNK, Julien

Session Classification: Projects