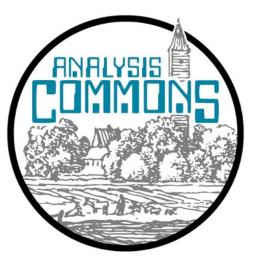
Analysis Commons

Collaborative Cloud Computing Model

Jennifer Brody



Analysis Commons



- Investigators and developers working collaboratively on data analysis of WGS or omics data
- Cloud-based Analysis Platform DNAnexus which uses AWS or Azure computing
- Shared tools (association pipelines, visualization, annotation, utilities)
- Shared resource files (genotypes, kinship, QC files, annotation)
- Project specific workspaces and permissions (e.g. Lipids, BP)
- User contributed Apps
- Auditability of analyses



Analysis Commons

- Data sharing models:
 - dbGAP coordinated applications that identify external collaborators
 - Consortium Agreement replaces large number of bi-lateral DMDAs

• Teleconferences and SLACK chat for communication

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Analysis commons, a team approach to discovery in a big-data environment for genetic epidemiology

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