

AGENDA | AT A GLANCE

TUESDAY, OCTOBER 2nd

A M	8:30 – 9:00	Breakfast and Registration
	9:00 – 10:30	TALKS Innovation at Scale
	10:30 – 11:00	Coffee
	11:00 – 12:30	TALKS Scaling Clinical & Geno/Pheno Analyses
	12:30 – 1:30	Lunch
P M	1:30 – 3:00	TALKS AI & Deep Learning
	3:00 – 3:30	Coffee
	3:30 – 5:30	TALKS UK Biobank & Clinico-Genomic Data Solution
	6:00 – 8:00	Networking Reception

WEDNESDAY, OCTOBER 3rd

A M	8:30 – 9:00	Breakfast and Registration
	9:00 – 10:30	TALKS Translational Informatics
	10:30 – 11:00	Coffee
	11:00 – 12:30	TALKS Innovative Technology
	12:30 – 1:30	Lunch
P M	1:30 – 3:30	WORKSHOPS Advanced Learning Workshops

AGENDA | DETAILS

TUESDAY, OCTOBER 2nd

8:30 - 9:00 Breakfast and Registration

9:00 - 10:30 **TALKS** INNOVATION AT SCALE

9:00 - 9:20

Richard Daly | CEO
[DNAnexus](#)

DNAnexus Business Update from 36,000 Feet

9:20 - 10:00

Jinghui Zhang, PhD | Chair and Member of Computational Biology
[St. Jude Children's Hospital](#)

Explore the Genomic and Neopeptide Landscape of Pediatric Cancers on the Cloud

10:00 - 10:30

Brett Hannigan, PhD | Senior Director of Science
[DNAnexus](#)

A Virtuous Knowledge Cycle: How Bigger Data Inspires Better Methods and How These Convert Data to Knowledge

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10:30 - 11:00

BREAK Coffee

11:00 - 12:30 **TALKS** SCALING CLINICAL & GENO/PHENO ANALYSES

11:00 - 11:30

John Penn, PhD | Manager, NGS Data Analysis
[Regeneron Genetics Center](#)

Scalable, Automated Processing of NGS Sequencing Supports RGC by Processing 300k-500k Samples a Year

11:30 - 12:00

William Salerno, PhD | Director of Genome Informatics
[Human Genome Sequencing Center at Baylor College of Medicine](#)

Clinical Applications of >100,000 Whole Genomes

12:00 - 12:30

Annerose Berndt, PhD | Vice President, Clinical Genomics
[University of Pittsburgh Medical Center](#)

Enabling Precision Medicine and Immunotherapy through UPMC's Genome Center

12:30 - 1:30

BREAK Lunch & Learn

Mark Johnston | Director, Global Business Development,
[Healthcare, Life Sciences, and Agriculture Technology at Amazon Web Services](#)

Life Sciences Innovation Powered by the Cloud

1:30 - 3:00 **TALKS** AI & DEEP LEARNING

1:30 - 2:15

Discussion Panel

How new AI and ML Methods Drive Discovery in Genomics and Beyond

Agust Egilsson, PhD | Staff Engineer, Deep Learning at [Natera](#)

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Peyton Greenside, PhD | Schmidt Science Fellow, [Stanford University](#)
Johnny Israeli, PhD | Manager, Deep Learning Genomics at [NVIDIA](#)
Ryan Poplin | Machine Learning Technical Lead, [Google](#)

2:15 - 2:45 **Mark DePristo, PhD** | Head of Deep Learning for Genetics & Genomics
[Google](#)

Applying Deep Learning to Genomics Problems

2:45 - 3:00 **Jason Chin, PhD** | Senior Director Deep Learning
[DNAnexus](#)

Solving the Last Mile Problem: Applying Deep Learning to Genomics in the Cloud

3:00 - 3:30 **BREAK** Coffee

3:30 - 5:30 **TALKS** **UK BIOBANK & CLINICO-GENOMIC DATA SOLUTION**

3:30 - 4:15 **UK Biobank Panel**

Drug Discovery in 500,000 Exomes: UK Biobank and the Future of Pharma

Jeffrey Reid, PhD | Executive Director & Head of Genome Informatics,
[Regeneron Pharmaceuticals](#)

Mark Effingham, PhD | Chief Operating Officer, [UK Biobank](#)

Melissa Miller, PhD | Sr. Manager, [Pfizer](#)

David Sexton | Director, Head Scientific Computing [Biogen](#)

George Asimenos | Chief Technology Office, [DNAnexus](#)

4:15 - 4:45 **Megan Laurance, PhD** | Director Product Marketing
[DNAnexus](#)

DNAnexus Clinico-Genomic Data Solution: Multi-omic, Phenotypically Rich Disease-Specific Datasets to Accelerate Biomedical Research

4:45 - 5:15 **Greg Tranah, PhD** | Director of Precision Medicine
[Sutter Health](#)

Large Healthcare Systems as Research Partners - Leveraging a Clinico-Genomic Data Infrastructure to Accelerate Discoveries and Improve Patient Outcomes

5:15 - 5:30 **Richard Daly** | CEO
[DNAnexus](#)

Closing Remarks

6:00 - 8:00 **RECEPTION** Networking Reception

You are invited to a networking reception at Wine & Wall

WEDNESDAY, OCTOBER 3rd

8:30 - 9:00 Breakfast and Registration

A
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9:00 – 10:30

TALKS TRANSLATIONAL INFORMATICS

9:00 - 9:30

Fan Fan, PhD | Vice President Product Management
[DNAnexus](#)

Evolving from Secondary Analysis to a Multi-Omics Platform

9:30 - 10:00

Live Demonstrations & Product Updates

[DNAnexus](#)

Translational Informatics - Brett Hannigan, PhD / Senior Director of Science

Jupyter Notebooks - Geet Duggal / Principal Software Engineer

10:00 - 10:30

David Fenstermacher, PhD | Vice President R&D Bioinformatics

[MedImmune](#)

Leveraging Genomics for Target Identification in Drug Discovery

10:30 – 11:00

BREAK Coffee

A
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11:00 – 12:30

TALKS INNOVATIVE TECHNOLOGY

11:00 - 11:30

Tim Bakker | Senior Project Manager, Data & Technology

[Melbourne Genomics Health Alliance](#)

How DNAnexus is Part of a System to Embed Genomics into Everyday Healthcare

11:30 - 12:00

Doreen Ware, PhD | Scientist & Adjunct Professor

[USDA ARS & CSHL](#)

Characterizing Genetic and Transcript Variation Using Long Single Molecule Sequencing

12:00 - 12:30

Richard Daly | CEO

[DNAnexus](#)

Closing Remarks

12:30 – 1:30

BREAK Lunch & Learn

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M

1:30 – 3:30

WORKSHOPS Advanced Learning Workshops

Leveraging Docker, CWL, and WDL Workflows on DNAnexus: Learn how to use public Docker containers as part of your apps and how to run CWL and WDL workflows.

App(let) Building Best Practices and Optimizing Applications for the Cloud:

Identify best practices, patterns to avoid, and take away some templates and code snippets useful for future work.