

Teams link

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmU4MmNkZjEtZjBiNS00N2ZkLTkwNTktYzYxMmRjZWY1YjMw%40thread.v2/0?context=%7b%22Tid%22%3a%2214b77578-9773-42d5-8507-251ca2dc2b06%22%2c%22Oid%22%3a%221f7bfbf1-77eb-4e8a-ae62-5e3fe8136cd7%22%7d

Schedule

2025

- **January 10th**
 - Speakers: Tara Dutka (NIH/OD), Kiran Garimella (Broad) All-of-Us Research introduction and the long-read sequencing project
- **February 7 (rescheduled to Feb 14)**
 - Speaker: Mark Chaisson (USC) "Genotyping sequence-resolved copy-number variation with ctyper"
- **March 7th**
 - Speaker: Andrew Stergachis (UW) "A haplotype-resolved view of normal and pathogenic gene regulation"
- **April 4**
 - Speaker: Benedict Paten (UCSC) "Pan-genome"
- **May 2**
 - Todd Treangen (Rice University) "Reference-free Structural Variant Detection in Microbiomes via Long-read Coassembly Graphs"
- **June 6**
 - Speaker: Kimberley Billingsley (NIH/NIA) "Decoding the Genomics of Neurodegenerative Diseases with Large-Scale Long-Read sequencing"
- **July 11**
 - Speaker: Nancy Hansen (NIH/NHGRI) "Beyond variants: a complete human genome benchmark for assembly and read quality assessment"
- **October 3**
 - Speaker: ONT RNA technology update
 - Speaker: ONT RNA user
- **Save the date 2025:** Nov 7, Dec 5

2024

- **January 5th**

- Speaker 1: Hagen Tilgner (Weill Cornell), “Technologies that provide a view of RNA isoform expression across mouse brain development and brain regions as well as human brain structures” host: Misha
 - Speaker 2: Kensuke Daida (NIH CARD), “Identification of hidden complex structural variants in PRKN using long-read sequencing” host: Cornelis
- **February 2nd**
 - Speaker: Kateryna Makova (Penn State), “The Complete Sequence and Comparative Analysis of Ape Sex Chromosomes” host: Arang
- **March 1st**
 - Speaker: Michael Schatz (JHU) “Long reads across the tree of life”, host: Arang
- **April 5th**
 - Speaker 1: William Gibson (NIAID) “Enabling Precision Vaccinology Through Incorporation of Genomic Information and Development of Predictive Vaccine Response Models”
 - Speaker 2: Oscar Rodriguez (U Louisville) “Understanding genetic contribution to antibody generation”
- **May 3rd**
 - (Canceled)
- **June 7th**
 - (Canceled)
- **July 12th**
 - Speaker 1: Ludmila Prokunina-Olsson host: Misha
 - Speaker 2: Oscar Florez-Vargas host: Misha
- **August 2th**
 - Speaker: Rachel O’Neill (UConn), “Using T2T-scale genome assemblies across the mammalian phylogeny to study chromosome evolution” host: Arang
- **September 6th**
 - (Canceled)
- **October 4th**
 - Speaker 1: Melania Bruno (NICHD), “Adding the missing tiles to the puzzle—Sequence reconstruction of KRAB-ZFP gene clusters highlights their rapid evolution in mice” host: Arang
 - Speaker 2: Edward C. Sawicki (ONT): Performance and Product Updates

- **November 1st**
 - (Canceled)
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 - **December 6th**
 - Speaker: Nick Vereecke and John Dekker (NIAID), “Improved nanopore Cas9-targeted sequencing and applications in microbiology”.
<https://irp.nih.gov/pi/john-dekker>
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2023—

- **Fri Jan 6, 2-3p**, January meeting
 - Speaker 1: Tim Smith (USDA) “Advances in metagenomic assembly supported by long reads” (host: Misha)
 - Speaker 2: Xiaowen Feng (HMS) “HiFi metagenome assembly and evaluation of sample representation” (host: Misha)

** **Survey** [[View Results](#)] **
- **Fri Feb 3, 2-3p**, February meeting
 - Speaker 1: Doruk Beyter (deCODE Genetics) “Analysis of structural variants using long-reads in the Icelandic population” (host Misha/Cornelis)
 - Speaker 2: Brynja Sigurpálsdóttir (deCODE Genetics) “Methylation analysis using long-read sequencing” (host Misha/Cornelis)
- **Fri Mar 3,**
 - Speaker 1: Aaron Wenger (Pacific Biosciences) “HiFi sequencing of genomes and epigenomes”, host: Arang
 - Speaker 2: Neil Hanchard (NHGRI) “Long Read Sequencing to fine map the beta-globin locus in Africans with Sickle Cell Disease”, host: Arang
- **Fri April 7th**
 - Speaker 1: Elizabeth Tseng (Pacific Biosciences), Bulk and single-cell isoform sequencing with HiFi reads. host: Arang
 - Speaker 2: Arang Rhie (NHGRI), The complete sequence of a human Y chromosome
- **Fri May 5th**
 - Speaker 1: Jonas Korlach (Pacific Biosciences), Highly accurate short-read sequencing with SBB and Onso. host: Arang

- Speaker 2: Erik Garrison (University of Tennessee), The human pangenome reveals recombination between heterologous acrocentric chromosomes
- **Fri June 2nd**
 - Speaker 1: Meru Sadhu (NHGRI) “Connecting the yeast pangenome to phenotypic diversity”, host: Arang
 - Speaker 2: Eoghan Harrington (Nanopore), “Pore-C”, host: Cornelis
- **July 7th**
 - Speaker 1: John Beaulaurier (Nanopore), “Single-cell analysis”, host: Cornelis
 - Speaker 2: John E. Gorzynski (Stanford), “Ultra-rapid Nanopore whole genome sequencing in a critical care setting”, host: Cornelis
- **August 4th - no seminar, summer break!**
- **September 1th**
 - Speaker 1: Glennis Logsdon (UW), “New insights into the variation and evolution of human centromeres”. host: Misha
 - Speaker 2: Ami Bhatt (Stanford), “From Precise Microbiome Genomics to Precision Medicine” host: Misha
- **October 6th**
 - Speaker 1: Mikhail Kolmogorov (NCI) “Characterizing complex structural variants in cancer using long reads”
 - Speaker 2: Kishwar Shafin (Google Health) “DeepSomatic: Somatic variant calling with long and short reads. DeepPolisher: Polishing genome assemblies with transformer neural networks”, host: Arang
- **November 3rd (conflict with ASHG)**
 - Canceled
- **December 1th**
 - Speaker 1: Fritz Sedlazeck (Baylor), “Long read sequencing: From research to clinical” host: Arang
 - Speaker 2: Corey Watson (University of Louisville), “Illuminating the dark corners of the immune system: roles for immunoglobulin haplotype diversity in antibody mediated immunity”. host: Misha

2022—

- **Fri Sep 9, 2-3pm** Kickoff meeting
 - **Speakers:** Cornelis Blauwendraat, Arang Rhie, Mikhail Kolmogorov

- **Abstract:** This will be the first meeting of our SIG. We will discuss the scope of this SIG, highlight some of the recent technology advances and applications of long reads and related technologies, and answer any questions.
- **Fri Oct 7, 2-3pm**, October meeting
 - Speaker 1: Sergey Koren (NHGRI) “Complete, telomere-to-telomere assembly of diploid human genomes and beyond” (host: Arang)
 - Speaker 2: Mitchell Vollger (UW) “Using a complete human reference to explore variation in segmental duplications” (host: Arang)
- **Fri Nov 4, 2-3pm**, November meeting
 - Speaker 1: Michael Dean (NCI) “New mechanisms of HPV carcinogenesis revealed by long read sequencing”. (Host: Misha)
 - Speaker 2: Winston Timp (JHU) “Linking Single Cell and Single Molecule Methods”
- **Fri Dec 2, 2-3pm**, December meeting
 - Speaker 1: Karen Miga “Expanding Studies of Centromere Structure and Function in the Era of Telomere-to-Telomere (T2T) Genomics” (UCSC / host: Arang)
 - Speaker 2: Miten Jain “Recent progress in human genome analysis using nanopore long reads” (Northeastern Univ. / host: Mikhail)

-----ZOOM INFO-----

Mikhail Kolmogorov is inviting you to a scheduled ZoomGov meeting.

Topic: Long-Read, Long-Range SIG

Time: This is a recurring meeting Meet anytime

Join ZoomGov Meeting

<https://nih.zoomgov.com/j/1612752515?pwd=bG1NV2VqNktLaE1ZZGJ5RGNFYkZTQT09>