PHASEBOOK

Quarterly Newsletter: Spring 2022

Expanding Possibilities in Precision Medicine

New Insights with Ultra-long-range Sequencing

Phase Genomics is expanding into the clinical research and oncology space, featuring ultra-long-range sequencing technology that opens doors into precision oncology and reproductive genomics. Check out the brochures recently added to our site for details on the technology that is unlocking the wealth of genomic structure information stored in FFPE samples via a cost-effective and scalable NGS-based assay.

PHASE GENOMICS

ONCOTERRA™ REPORT

PATIENT INFORMATION		SPECIMEN INFORMATION		PROVIDER INFORMATION	
Accession ID	657636	Specimen ID	309110	Ordering Physician	Joanna Johnson, MD
Name	Loren Smith	Type	FFPE	Institution	Comprehensive Cancer Center University of Medicine
Date of Birth	07/20/69	Collection Date	03/22/2022		

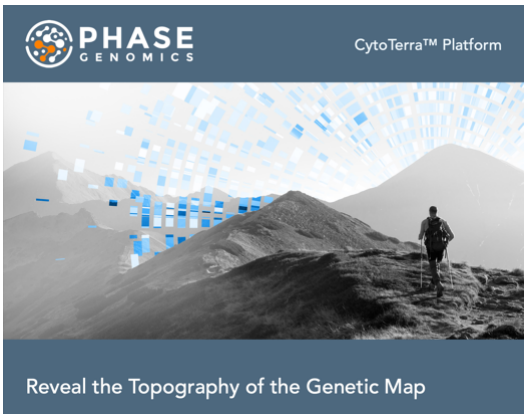
RESULT SUMMARY

CHROMOSOME NUMBER	SEX CHROMOSOME COMPLIMENT	DETECTED ABNORMALITY
46	XY	del(11)(q24.2),del(11)(q24.3q25)

DETAILED RESULTS

FIGURES	CHANGE	ISCN	GENOMIC COORDINATES	GENES
Figure 1A	deletion	del(11)(q24.2)	chr11:124100000-127250000	ACRV1, CCDC15, CDON, CHEK1, DCPS, DDX25, ED24, ESAM, FAM118B, FEZ1, FOXRED1, HEPACAM, HEPN1, HYLS1, KIRREL3, MSANTD2, NRGN, OR10D3, OR8A1, OR8B12, OR8B2, OR8B3, OR8B4, OR8B8, OR8D1, OR8D2, OR8G1, OR8G5, PANX3, PATE1, PATE2, PATE3, PATE4, PKNOX2, PUS3, ROBO3, ROBO4, RPUSD4, SIAE, SLC37A2, SPA17, SRPRA, ST3GAL4, ST7SA, TBRG1, TIRAP, TMEM218, VSIG10L2, VSIG2, VWA5A
Figure 2A	deletion	del(11)(q24.3q25)	chr11:128550000-133600000	ADAMTS15, ADAMTS8, APLP2, ARHGAP32, BARX2, C11orf45, ETS1, FLI1, KCNJ1, KCNJ5, NFRKB, NTM, OPCML, PRDM10, SNX19, ST14, TMEM45B, TP53AIP1, ZBTB44

ANALYSIS



Learn more about the OncoTerra and CytoTerra platforms.

Catch us at a Conference

We are looking forward to a safe return to in-person events to celebrate the achievements researchers have been making around the globe. Phase Genomics is dedicated to making our presence at these events as safe as possible and will be adapting to the most recent safety guidelines and regulations.

Life Science Innovation Northwest **– Seattle, WA (April 20-21)**
Digestive Disease Week **– San Diego, CA (May 21-24)**
Advances in Genome Biology & Technology **– Orlando, FL (June 6-9)**
American Society for Microbiology: Microbe **– Washington, DC (June 9-13)**
Sequencing to Function: Analysis & Applications for the Future **– Santa Fe, NM (June 21-23)**

Stand with Ukraine

We are supporting the humanitarian effort in Ukraine because it is the right thing &

because it is personal - several team members have family residing in the country. Phase Genomics matched our team's contributions to support those suffering. We encourage other biotech companies to do the same.

Charities we support

[Razom for Ukraine]

[Voices of Children]

[UN Humanitarian Crisis Fund]

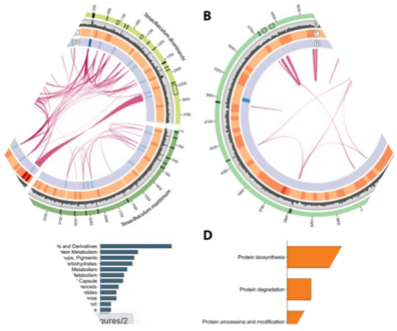
Recent Research

Physical separation of haplotypes in dikaryons allows benchmarking of phasing accuracy in Nanopore and HiFi assemblies with Hi-C data

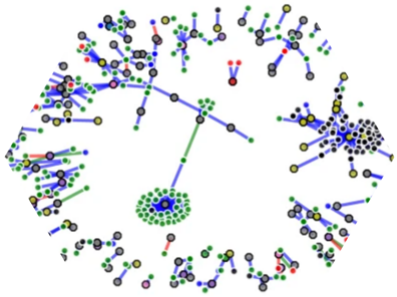
Novel canine high-quality metagenome-assembled genomes, prophages and host-associated plasmids provided by long-read metagenomics together with Hi-C proximity ligation

A Chromosome Scale Assembly of an Australian Puccinia striiformis f. sp. tritici Isolate of the PstS1 Lineage

A chromosome-level, fully phased genome assembly of the oat crown rust fungus Puccinia coronata f. sp. avenae: a resource to enable comparative genomics in the cereal rusts



Proximity ligation strategy for the genomic reconstruction of microbial communities associated with the ectoparasite Caligus rogercresseyi



Generating lineage-resolved, complete metagenome-assembled genomes from complex microbial communities

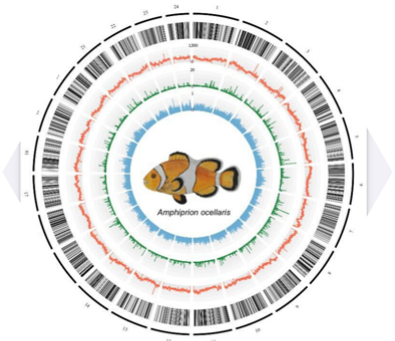
Genomic signatures of high-altitude adaptation and chromosomal polymorphism in geladas

Phylogenomics of the genus Glycine sheds light on polyploid evolution and life-strategy transition

Temporal matches and mismatches between monarch butterfly and milkweed population changes over the past 12,000 years

Aphidinae comparative genomics resource

Buxus and Tetracentron genomes help resolve eudicot genome history



A chromosome-scale genome assembly of the false clownfish, Amphiprion ocellaris

Chromosome-level de novo genome assembly of Telopea speciosissima (New South Wales waratah) using long-reads, linked-reads and Hi-C

MORE PAPERS

Have a project in mind?

Contact Us

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