Cemcotelibrots services

## ACCESS LONG-RANGE DATA FROM SHORT-READ ILLUMINA SEQUENCING!!

- We start with very long gDNA, make GemCode Illumina Library and use the Illumina short read NGS sequencing (HiSeq2500) to get LONG RANGE DATA!
- Linked Reads enable haplotyping, structural variation detection and > 12 Mbp haplotype blocks!

Low gDNA inputs allow accurate human chromosome phasing from $\sim 1$ ng of gDNA.


# $\mu \otimes$ AMPLICON <br> express 

## GEMCODE PLATFORM WORKFLOW

## HMW gDNA Extraction*

*Amplicon Express performing the gDNA extraction maximizes the length and usefulness of the Linked Reads data.


The GemCode Instrument uses a network of microfluidic channels and pressures to create $>100,000$ GEMs gel bead-containing emulsions in minutes!

## Library <br> Quantification

The DNA is delivered "ready to run" on any Illumina HiSeq2500.

# GemCode Library Prep 

