**UCLA Neuroscience Genomics Core**

The UNGC currently occupies approximately 1500 sq/ft of dedicated laboratory space in the Gonda research facility on the UCLA campus. Installed capital equipment includes one HiSeq 4000 sequencer, one cBot cluster station, one Illumina LIMS capable iScan confocal laser scanner with Autoloader II automatic loading support capable of scanning all Illumina beadchip formats. One Tecan Evo 150 robotic liquid handling platform with Illumina GTS and Infinium robot control software installed, one Tecan Evo 100 robotic liquid handling platform and two 48 place temperature controlled beadchip processing racks, one SciGene Little Dipper microchip processing robot, one Tomtec autosealer, one MJ Research tetrad 2 thermocycling system and four Eppendorf Nexus gradient PCR machines. Additional equipment includes one Covaris M220 nucleic acid shearing system, one Covaris E210 high throughput nucleic acid shearing platform, one VisonMate SR 2D barcode plate scanner, one Agilent 4200 Tapestation, one Caplier Labchip XT nucleic acid size selection system, six programmable incubation ovens, six microplate heat blocks, two tabletop centrifuges, one Molecular Dynamics fluorescent microplate readers, one speedvac and four high capacity microplate shakers, 8 benchtop precision shakers and -20 and -80 freezer storage. Computer resources include ten networked workstations. The UNGC has 60TB of network storage space with RAID backup.

The UNGC is equipped to provide sequencing services, including library preparation and QC, using all current Illumina and compatible third party chemistries and kits on our HiSeq 4000 instrumentation.

The UNGC supports all versions of Illumina’s whole genome and custom iSelect Infinium genotyping assays, including methylation analysis.

The UNGC currently operates an Illumina HiSeq 4000 sequencer. HS4000 flowcells are expected to generate approximately 300M reads per lane and each flowcell consists of 8 lanes. Flowcells can accommodate single read (SR) or paired end (PE) runs. Currently, the following run types are available through the UNGC core:

SR 1x65  
PE 2x75  
PE 2x150

The UNGC is directed by Dr. Nelson Freimer. The UNGC is committed to providing equivalent access to its members at all institutions.

New consortium members are always welcome, contact Nelson Freimer for details at nfreimer@mednet.ucla.edu or 310-794-9571. Cost estimates and information regarding all core services may be obtained by contacting Joe DeYoung, the facility manager at jdeyoung@mednet.ucla.edu or by phone at 310-825-2390

Additional information can be found on our web site: [http://www.semel.ucla.edu/ungc](http://www.semel.ucla.edu/ungc)