



### NSF ExFAB BioFoundry - Cal Poly Pomona Site

Category	Equipment	Capabilities
NA	Oxford Nanopore MinION Mk1D	Long or short reads of DNA or RNA fragments, ideal for small genomes and targeted application sequencing, such as: bacterial metagenomics, bacterial isolates, bacterial whole genomes, viral genomes, full length 16S/18S rRNA, whole transcriptomes and smaller transcriptomes
NA	Applied Biosystems QuantStudio 3 real-time PCR system	Quantitative PCR with up to 4 probes; 96 well (0.1 ml tubes) block with 3 independent temperature zones
CC	2x New Brunswick Innova 42 high temperature incubator shakers	Growth of thermophilic microbes; 19 mm orbit, 25-400 RPM; ambient + 10-95°C; 50 ml - 2 L volumes, up to 8 L culture total; continuous, timed, or multi-step programming
G	Beckman Coulter Optima Max-XP benchtop Ultracentrifuge	Separation of cellular organelles, membrane fractions, or viral particles. MLA-80 fixed angle rotor holds 6 x 175 µl tubes, max g-force of 440,000; TLA-55 fixed angle rotor holds 12 x 1.5 ml tubes, max g force of 186,000; MLS-50 swinging bucket rotor holds 4 x 5 ml tubes, max g force of 268,000. Temperature range: 0-40°C
G	Eppendorf 5415R refrigerated centrifuge	Spinning down temperature-sensitive samples (e.g., DNA/RNA, proteins, cell cultures). Rotor holds 24 x 2 ml tubes; 16,000 xg max spin, Temperature range: 0-40°C

- CC Cell culture
- CS Cell sorting
- CT Cell transformation
- CL Cell lysis
- LH Liquid handling
- G General
- NA Nucleic acids
- I Imaging
- A Analysis