**Equipment**

Computing resources: The University of Virginia maintains a large shared computing cluster with 8,000 cores and 8PB of various storage. The Bergland lab currently leases 20Tb of backed-up storage. The Bergland lab also maintains a 24-core workstation for smaller scale analyses.

Environment controlled rooms**:** The Bergland lab maintains two 8x8x8 walk-in Environmental Growth Chambers (EGCs). These chambers are capable of temperature, light, and humidity control. One is equipped with 40 small chambers, sufficient to hold 8 1L jars (for daphnia) or 100 fly vials. These small chambers were built and designed by the Bergland lab and offer additional independent control of light and temperature.

Percival growth chambers: The Bergland lab maintains 4 Percival chambers (two double door, and 2 single door). One single door unit is designed for Drosophila use and has phenolic coated coils and humidity control. The others are used for Daphnia culture.

Laminar Flow hood: We maintain a Laminar Flow hood for algae culture work.

Molecular facilities: The Bergland land has access to UVA’s Shared Genomics facility which houses PCR thermocyclers and other necessary molecular lab equipment.

Daphnia aquaculture: The Bergland lab maintains an Aquaneering flow-through system for Daphnia culture. Currently, we are utilizing a six shelf stand alone single-sided rack, with the option to expand to 6 double wide racks if necessary.

Outdoor mesocosm facility: The Bergland lab has built and maintains 36 caged peach trees at our experimental orchard at Morven Estates. Cages are built out of UV resistant Luminite, preventing major movement of Drosophila.

UVA Genomics core. The Biology Dept at UVA has an Illumina MiSeq, Roche 454, and ABI capillary sequencer. We will also outsource much of our sequencing needs.