

## **PGRG Major Equipment**

### **Protein Analysis:**

1. IEF electrophoretic systems (BioRad), each is capable of analyzing 24 samples at a time.
2. Protean II mini, intermediate and large format slab gel systems (BioRad).
3. Protean Plus Doca Electrophoresis System (BioRad)
4. Digital gel imaging system, ChemiDoc XRS Imaging System (computer) (BioRad)
5. Rotofor liquid isoelectric electrophoresis instrument. (BioRad)
6. Trans Blot SD (semi dry transfer system, BioRad)

### **Nucleic Acid Analysis**

1. iQ5 realtime PCR system (BioRad)
2. iCycler (Bio-Rad)
3. PTC - 200 Peltier Thermal Cycler (2 head), MJ Research [\$6000]
4. PTC - 200 Peltier Thermal Cycler (1, 96 well head), MJ Research [\$6000]
5. Master Cycler Gradient (96 wells), Eppendorf
6. BioRad MJ Mini Personal Thermocycler
7. Beckman/Coulter CEQ 2000 DNA Sequencer with computer support.
8. Pulse field electrophoresis, Chef Mapper Systems, Biorad
9. QiaCube automated sample preparation system
10. Trans-illumination gel Imaging systems,
11. 2 Spectolinker UV Crosslinkers.
12. Numerous agarose gel electrophoresis systems.

### **Microscopy**

1. Inverted microscope with DIC fluorescence capability, digital camera (Olympus)
2. Inverted Olympus IMT-2 with video camera and 35 mm camera.

### **Computers**

1. 8 workstations: Dell Precision T3400. Processor E4600, 2.4 GHZ, 4GB SDRAM memory, 250G hard drive. Among them, 4 windows XP, 4 Linux.
2. 2 Linux servers: Dell PowerEdge 2900. Two Quad Core Xeon Processor 2.0 ,GHz, 16GB 667 MHZ, Dual Ranked DIMMs (memory), 450 GB harddrive.

### **Analytical Software (MS office on all computers)**

1. PDQuest 2DGE analytical software (BioRad)
2. SigmaPlot
3. Geneious

### **Support Equipment available**

1. GPR Refrigerated Centrifuge (Beckman)
2. Fisher Isotemp Vacuum Oven

3. Precision Vacuum Oven
4. Low speed clinical centrifuges
5. Rotary tables for gel staining
6. Analytical balance , pH meter,
7. Freezer, refrigerator
8. de-ionized water feed distillation apparatus,
9. water baths
10. culture hoods and support equipment,
11. low speed refrigerated centrifuge Beckman)
12. Refrigerated Tabletop Microcentrifuge - Micromax RF, Thermo IEC
13. Hybridization Incubator, Robbins Scientific
14. Gene pulser II System, Biorad
15. Versa Fluor - Fluorometer, Biorad
16. SmartSpec Plus, Biorad
17. Autoclave-Sterile Max, Harvey
18. UltraLum Imager, Ultracam Digital Imaging
19. Isotemp Lab Fridge, Fisher
20. Genesys 2 Spec, ThermoSpectronic
21. Mini Beadbeater
22. Klett Colorimeter
23. BioPhotometer, Eppendorf
24. Fisher Isotemp Vacuum Oven
25. Precision Vacuum Oven