**Scientific Equipment**

**Infection & Immunity**

**NOTE: Prior approval should be obtained before you use any equipment. You should also agree terms of use, e.g., responsibilities for breakages, contribution to maintenance and repair.**

**ADREU Lab – contact Liqing Zhou**

* CFX 96 Real Time PCR system: 6-channel real-time PCR detection and quantification of DNA/RNA samples

**Claudia Eder Lab – contact Claudia Eder**

* 2 Patch clamp amplifiers (HEKA-EPC10)
* 1 Monochromator
* 2 Upright microscopes (Olympus BX51W)

**Debbie Baines’ Laboratory equipment– contact Debbie Baines**

* Waters HPLC with various detectors

**Derek Macallan’s Laboratory equipment - contact Derek Macallan**

* 2 X Agilent GC- MS (Gas chromatography- mass spectrometry)

**Genomics Laboratory Core Equipment corridor 3a – contact Ken Laing**

* Promega GloMax - absorption, fluorescent and luminescent measurement in multiwall plate format
* CFX 96 - 5 channel real-time qPCR relative quantitation of nucleic acids and High resolution melting
* CFX Connect - 3 channel real-time qPCR relative quantitation of nucleic acids and High resolution melting
* QX100 digital droplet PCR – two channel VIC/HEX digital PCR system for absolute quantitation of nucleic acids
* Illumina GX500 microarray scanner - human and model organism SNP analysis by microarray
* Beckman-Coulter - Plate centrifuge
* Nanodrop – spectrophotometric analysis of quality and purity of nucleic acids and proteins
* OMEGA lite FluoStar - fluorescent and luminescent measurement in multiwall plate format Ex 355, 485PB12, 544 and Em 460, 520, 590, BRET and the TR module for TR-FRET.  -Contact Kim Jonas

**Julian Ma Lab – Contact Thais Guerra via e-mail:** **tguerra@sgul.ac.uk**

* G:Box – Syngene: pictures of gels
* Nano Drop 2000 – Thermo Scientific: Spectophotometer - spectrophotometric analysis of quality and purity of nucleic acids and proteins
* Sunrise – Tecan: Plate Reader
* Infinite F200Pro – Tecan: Plate Reader
* Biotek – Elx405: Elisa Plate washer.
* Biocore X100 – GE Healthcare – label-free measurement biomolecular interactions.

**Microbiology - Contact Jason Hinds/Philip Butcher/Ken Laing**

* Illumina MiSeq next generation sequencer – Bacterial whole genome, 16S and amplicon sequencing
* Ion Torrent next generation sequencer – Bacterial whole genome and amplicon sequencing
* Diagenode BioRuptor – sonicator for e.g. DNA fragmentation
* Qubit – fluorescent measurement of nucleic acids concentration
* Agilent Bioanalyser – Quality and Integrity assessment of nucleic acids
* Agilent Tapestation – High trough put Quality and Integrity assessment of nucleic acids
* Nanodrop – spectrophotometric analysis of quality and purity of nucleic acids and proteins
* Agilent Microarray scanner and ancillary equipment – Agilent microarray analysis for genomics and gene expression using Agilent Microarrays
* QiaCube HT – semi-automated High throughput DNA extraction Robot

**Rajko Reljic Lab – Contact Thais Guerra via e-mail:** **tguerra@sgul.ac.uk**

* Precelly Evolution – Bertin technologies: homogeniser
* Auto MACS – Miltenyi Biotec: cell separation (need to be serviced and we don’t have the columns)
* Plant Vlimatics – Percival – CU-36L4: temperature and light control camber (need to be serviced).

**Sanjeev Krishna and Henry Staines Labs – Contact Sanjeev/Henry**

Room 2.201

* BioRad CFX Connect qPCR machine
* Perkin-Elmer MicroBeta TriLux flatbed scintillation counter (with harvester)

Room 1.149

* TurboTEC two-electrode voltage clamp rig (for oocytes)
* Axon patch-clamp rig
* The patch-clamp rig includes a Nikon TE2000 inverted microscope with camera and mercury lamp for epifluorescence imaging

**Steve Goodbourn Lab – Contact Steve Goodbourn**

* A Nikon Eclipse TS100 inverted microscope equipped for fluorescence imaging.
* A Berthold Lumat LB9598 single tube luminometer, for measuring luminescence.
* A Berthold Tristar LB941 96-well plate reader luminometer, for measuring luminescence.
* A Li-cor CLx scanner for infra-red fluorescence imaging.

**Tika Diagnostics Ltd – contact Tim Bull/Kai Hilpert**

* MGIT320 – automated mycobacterial culture machine made by Becton Dickinson

**Tissue Culture Room (multiple users)**

* Thermo Fisher centrifuge

**Contact Melanie Monteiro to add further items.**