

## Sansom Institute Equipment List

Last updated November 2011

| Equipment Item   | Research Group or Researcher leading application                    | Infrastructure Scheme      |
|--|---|----------------------------|
| South Australian Facility for Advanced Molecular Imaging   | The Flinders University of South Australia                          | ARC LIEF                   |
| Adelaide Core Live Organism Imaging Facility   | The University of Adelaide  | ARC LIEF                   |
| South Australian NMR Infrastructure Consortium   | The Flinders University of South Australia                          | ARC LIEF                   |
| A Multi-Function Eye-Tracker Facility  | The Flinders University of South Australia                          | ARC LIEF                   |
| A Microarray Platform for Gene Expression Analysis and Genotyping in Biological Systems              | The University of Adelaide  | ARC LIEF                   |
| Biophysical Characterisation Facility  | The University of South Australia                                   | ARC LIEF                   |
| South Australian High-Resolution and Ion-Mobility Mass Spectrometry Facility                         | The University of Adelaide  | ARC LIEF                   |
| South Australian Epigenetics Facility  | The University of Adelaide  | BioInnovation SA           |
| The South Australian Facility for Small and Large Molecule X-Ray Diffraction Structure Determination | The University of Adelaide  | ARC LIEF                   |
|  |   |                            |
| SQL server, installation, and set up for DAPHNe  | Public Health Research Group  | NHMRC Equipment Grant      |
| Olympus Microscope IX-71 Upgrade   | Mechanisms in Cell Biology and Diseases                             | NHMRC Equipment Grant      |
| Emulsiflex C3 Homogeniser  | Pharmaceutical Science and Therapeutics                             | NHMRC Equipment Grant      |
| Protein Detection System for Western Blotting  | Bone Growth and Repair  | NHMRC Equipment Grant      |
| 2x Thermo -80 Freezer & Shelving Racks & 1x -20 Freezer  | EOAHRG - Janna Morrison & NPRC - Jon Buckley                        | SIHR Infrastructure Scheme |
| Selected Ion Flow Tube-Mass Spectrometer (SIFT-MS)   | Mechanisms in Cell Biology and Diseases - Ross Butler & Doug Brooks | SIHR Infrastructure Scheme |
| Phillips IU22 Ultrasound Machine   | Therapeutics & Pharm Science - Gabrielle Todd                       | SIHR Infrastructure Scheme |
| Activity Monitors  | NPRC - Alison Coates  | SIHR Infrastructure Scheme |
|  |   |                            |
| Econo chromatography system  | Mechanisms in Cell Biology and Diseases - Doug Brooks               | SIHR Infrastructure Scheme |
| Luminex 200 xMAP analyser  | Nutritional Physiology Research Centre – Alison Coates              | SIHR Infrastructure Scheme |
| Administrative and commercial data purchases (software & hardware)                                   | Social Epidemiology and Evaluation Research Group – Mark Daniel     | SIHR IT/Software Budget    |

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| API 3000 electrospray tandem mass spectrometer (MSMS) detector  | Therapeutics and Pharmaceutical Science (TPS) – Bob Milne, Michael Roberts & Tom Robertson | SIHR Infrastructure Scheme |
| Malvern Instruments Zetasizer   | Therapeutics and Pharmaceutical Science – Bob Milne, Michael Roberts & Tom Robertson       | SIHR Infrastructure Scheme |
| ABL blood gas machine   | EOAHRG – Janna Morrison  | SIHR Infrastructure Scheme |
| Cell number counting and imaging facility   | EOAHRG – Janna Morrison  | SIHR Infrastructure Scheme |
| Catalogued storage of frozen tissue and plasma samples  | EOAHRG – Janna Morrison  | SIHR Infrastructure Scheme |
| 384 well Real-time PCR machine  | EOAHRG – Janna Morrison  | SIHR Infrastructure Scheme |
| Upgrading the fluorescent microcopy and imaging facility  | Mechanisms in Cell Biology and Diseases  | SIHR Infrastructure Scheme |
| Compact Integrated Pupillograph Hand Held System  | Therapeutics and Pharmaceutical Science – Jason White                                      | SIHR Infrastructure Scheme |
| SANYO CO2 INCUBATOR (for tissue and cell culture)   | Bone Growth & Repair Research Group – Cory Xian  | SIHR Infrastructure Scheme |
| Software (Foodworks & SPSS Complex Sample) & user guide module development                                  | Population Health and Epidemiology – Rebecca Golley  | SIHR IT/Software Budget    |
| Image Quant LAS 4010 biomolecular imager  | EOAH – Larisa Bobrovskaya  | SIHR Infrastructure Scheme |
| Doubly-labelled water collection facility   | Health & Use of Time – Tim Olds  | PVC Strategic Initiative   |
| Electroporator  | Mechanisms in Cell Biology and Disease – Ellen Nisbet                                      | SIHR Infrastructure Scheme |
| Breathtracker Model SC (H2) (CO2) (CH4)   | Mechanisms in Cell Biology and Disease – Ross Butler                                       | SIHR Infrastructure Scheme |
| C1000 Thermal Cycler  | Therapeutics and Pharmaceutical Science – Catherine O’Doherty & Michael Ward               | SIHR Infrastructure Scheme |
| Eight Colour Digital Flow Cytometer   | Experimental Therapeutics Laboratory – John Hayball  | SIHR Infrastructure Scheme |
| DeSys EMG System Expansion Modules  | Centre for Allied Health – Dominic Thewlis   | SIHR IT/Software Budget    |
| Bionumerics software platform   | Infectious Diseases and Microbiology – Mary Barton   | SIHR Infrastructure Scheme |
| 4 degree fridge, -20 freezer & centrifuge   | Nursing, Midwifery & Mental Health – Andrea Gordon & Antonina Mikocka-Walus                | SIHR Infrastructure Scheme |
|   |  |                            |
| Dry laboratory expansion to accommodate recently recruited externally funded post doctoral training fellow. | Social Epidemiology – Prof Mark Daniel   | SIHR Infrastructure Scheme |

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| Bench-temperature controlled incubator with orbital shaking   | Lung Research Group; Bone Growth and Repair Research Group; Cell Biology of Diseases Research Group; Early Origins of Adult Disease Research Group; Centre for Drug Formulation and Delivery | SIHR Infrastructure Scheme |
| Biological safety cabinet Class II; Tissue Culture Co2 Incubator  | Cell Biology of Diseases Research Group in collaboration with the Bone Growth and Repair research Group and the Paediatric and Education Research Group                                      | SIHR Infrastructure Scheme |
| Liposome Extruder   | Dr Kristen Bremmell  | SIHR Infrastructure Scheme |
| Denaturing Gradient Gel Electrophoresis System  | Ross Butler; Andrea Stringer; Mary Barton  | SIHR Infrastructure Scheme |
| Minor refit of CE R3-18 to accommodate additional staff within current space  | QUMPRC – Prof Andrew Gilbert   | SIHR Infrastructure Scheme |
| Cary 50 UV-Visible spectrophotometer  | S Plush; R Milne; F Peddie; P Pendleton; A Badalyan; C Gerber; G Klass; M Sykes; E Parkinson-Lawrence; K Bremmell; S Orgeig; D Brooks  | SIHR Infrastructure Scheme |
| Isotope Ratio Mass Spectrometer   | Prof Ross Butler - Paediatric Education research and Innovation Centre   | SIHR Infrastructure Scheme |
| NanoDrop-1000 Spectrophotometer; Experion Automated Electrophoresis System; Cary Eclipse Fluorimeter  | C Xian; J Morrison; S plush; S Orgeig; E Parkinson-Lawrence; S Gentili; B Muhlhausler; R Milne; T Shandala; M Barton; C McMillen; R McKinnon; D Brooks                                       | SIHR Infrastructure Scheme |
| XM10 Monochrome camera for fluorescence microscopy imaging; Advanced 'Cell F' software for fluorescence microscopy imaging; Economical Dissecting Microscope SZ61 TRC-SET | Bone Growth and Repair Research Group; Cell Biology of Diseases Research Group; Cancer Biology Research Group; Lung Research Group; Early Origins of Adult Life Research Group               | SIHR Infrastructure Scheme |
| Eppendorf Master Cycler & Eppendorf Refrigerated Microfuge  | Dr Ellen Nisbet; Dr Beverly Muhlhausler; Dr Craig Williams   | SIHR Infrastructure Scheme |
|   |  |                            |
| Real-time PCR Machine   | Bone Growth (Xian), Lung Physiology (Orgeig) & Lysosomal Storage Disorder Group (Brooks)   | SIHR Infrastructure Scheme |
| Provision & modification for Australian conditions of software, hardware and international collaboration costs  | Quality Use of Medicines and Pharmacy Research (QUMPRC)  | SIHR Infrastructure Scheme |
| Constant Temperature Incubation System  | Lung Physiology (Orgeig) & Early Origins of Adult Health (EOAH)  | SIHR Infrastructure Scheme |
|   |  |                            |
| BioPhysical Characterisation Facility   | Genetic Diseases Research Group (Brooks)   | SIHR Infrastructure Scheme |

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| Environmental Oxygen Sensing, Controlling and Incubation System | Lung Physiology (Orgeig) & Early Origins of Adult Health (EOAH) | SIHR Infrastructure Scheme |
| Expansion of Research Office Space                              | QUMPRC  | SIHR Infrastructure Scheme |
| Konelab Automated Spectrophotometric Analyser                   | EOAH, Genetic Diseases, Bone Growth (Xian) & Orgeig             | SIHR Infrastructure Scheme |
| Real-time PCR Machine   | EOAH  | SIHR Infrastructure Scheme |
|   |   |                            |