MBio Graduate School
Induction 2013

A/Prof Martin Stone and Dr Shae-Lee Cox
School of Biomedical Sciences
MBio Graduate School

Encompasses ~ 285 students currently enrolled:
– Anatomy and Developmental Biology
– Biochemistry and Molecular Biology
– Immunology – Clayton node
– Microbiology
– Pharmacology
– Physiology
– Medical Imaging and Radiation Sciences
– Australian Regenerative Medicine Institute (ARMI)
History

- 2006  Prof Elizabeth Blackburn visit
- 2007  Working group developed graduate school proposal
- 2008  Funding obtained from DVC(R), Faculty and SOBS
- 2009  Establishment of MBio Graduate School

Aims

- Enhance information and administration for HDR students
- Enrich and broaden the student experience
- Provide opportunities for scientific and professional development
- Provide increased interactions amongst the student cohort
- Provide domestic and international postgraduate opportunities
MBio Graduate School Management Committee

A/Prof Martin Stone (Director, MBio Graduate School)
A/Prof Jane Black (Anatomy and Developmental Biology)
Prof Mibel Aguilar (Biochemistry and Molecular Biology)
Prof Kate Loveland (Anatomy and Developmental Biology/Biochemistry and Molecular Biology)
A/Prof Hans Netter (Microbiology)
A/Prof Anna Roujeinikova (Microbiology)
Dr Tracy Heng (Anatomy and Developmental Biology)
Dr Michal Kolsky (Medical Imaging and Radiation Sciences)
Prof Helena Parkington (Physiology)
Dr Marianne Tare (Physiology)
Dr Chrishan Samuel (Pharmacology)
Dr James Bourne (ARMI)
Ms Jane McCausland (ARMI)
Prof Rob Widdop (Pharmacology – ex officio)
A/Prof Sharon Ricardo (Associate Dean, Research Degrees – ex officio)
Ms Victoria Hewitt (Student rep – Biochemistry and Molecular Biology)
Dr Shae-Lee Cox (Senior Project Manager, MBio Graduate School)
MBio Graduate School Student Committee

Sarah Conduit (Biochemistry and Molecular Biology)
Victoria Hewitt (Biochemistry and Molecular Biology)
Amy King (Microbiology)
Edward Rose (Microbiology)
Anthony Park (Anatomy and Developmental Biology)
Yashar Seyed-Razavi (Anatomy and Developmental Biology)
Melanie Neeland (Physiology)
Michelle Bullen (Pharmacology)
Enhanced information and administration

- Website (http://www.med.monash.edu.au/mbio-gradschool/)
- e-bulletin
- Induction Program
- PhD Writing—up desk spaces
- PhD Advisory Committees
PhD Student Advisory Committees

- 4 members
  - 2 supervisors
  - “Internal” member (chair)
  - “External” member
- Appointed in first year
- Tracks with student throughout PhD
- Meets with student at annual milestones
- Available for advice as needed
- Potential writers of recommendations
Recruitment and Funding

- Recruitment information on website
- Scholarship ranking/selection
- Development of funding mechanisms
- International training agreements
Professional development opportunities

- Three Minute Thesis Competition
- Anthony Koelmeyer International PhD Excellence Awards
- MBio Merck Millipore Award
- PhD Leadership Program
Increased interactions among students

- Three Minute Thesis Competition
- Special seminars
- Social events
- Coffee Machine

Location: Level 1, bld 76/77, coffee pods $1 from reception
Development of PhD Training Program

- Beginning in 2015
- 192 hours of formal training over PhD
- Training to include:
  - General biomed sci skills & knowledge
  - Specialist technical skills and knowledge
  - Transferable professional skills
Postgraduate Student Attributes

- Knowledge of subject area
- Technical expertise
- Critical thinking
- Communication skills
- Professionalism
Postgraduate Student Attributes

- Knowledge of subject area
  - Supervisors
  - Co-workers
  - Colleagues
  - Scientific literature
  - Demonstrating/tutoring

- Technical expertise
  - Experimental methods
  - Data analysis
  - Bioinformatics
Postgraduate Student Attributes

- Critical thinking
  - Analysis of complex problems
  - Identifying important issues
  - Making judgements and evaluations
  - Distinguishing between fact and opinion
  - Synthesising information and ideas
  - Making comparisons
  - Making testable predictions
  - Questioning what you read and hear
  - Comparing predictions and observations
  - Maintaining objectivity
Postgraduate Student Attributes

- Communication skills
  - Listening carefully
  - Speaking clearly
  - Writing clearly
  - Being accurate and precise
  - Willingness to ask questions
  - Seeking advice
  - Being aware of what you know and don’t know
  - Tailoring communication to the audience
Postgraduate Student Attributes

- **Professionalism and self-respect**
  - Take yourself seriously – show self-respect
  - Set goals, stay motivated
  - Prioritize your activities, work towards goals
  - Stay organised, manage your time
  - Maintain a strong work ethic
  - Maintain a healthy work-life balance

project management
Postgraduate Student Attributes

- Professionalism within an organisation
  - Be a team player
  - Treat coworkers with respect
  - Contribute to the working environment (research group, department, MBio)
  - Help teach and train others
  - Take initiative
  - Take on leadership roles
MBio Contacts

- A/Prof Martin Stone
- Dr Shae Cox
- Graduateschool.mbio@monash.edu
- Departmental HDR co-ordinator
- Student representative