Research Animal Facility
Faculty of Health Sciences
University of Cape Town

Chris Barnard building, room 2.25
Anzio Road, Observatory, 7925
Tel: (021) 404-7752
Fax: (021) 406-6226

Introductory Course in Laboratory Animal Science: The Ethics and Care of Laboratory Animals in Research

The University of Cape Town's (UCT) Research Animal Facility will present its next biannual Introductory Course in Laboratory Animal Science from:

Monday 13 April – Friday 17 April 2015 (daily from 12h00 to 17h00)

Attending the 25-hour course and passing its assessments is a requirement for performing hands-on animal research or teaching activities in the UCT Faculty of Health Sciences (FHS).

The course is aimed at all personnel who direct, design or conduct animal research or teaching activities at UCT and in South Africa, with the objective to present the basic principles and facts that underlie the responsible and ethical care and use of non-human animals for scientific purposes. The UCT FHS Animal Ethics Committee accredits the course and a certificate will be issued upon successful completion of the course.

Course contents include (schedule overleaf)

- **Animal ethics** (moral philosophy; legislation; standards; UCT policies; reduction, refinement & replacement)
- **Animal welfare** (welfare monitoring; humane endpoints; euthanasia; anaesthesia; analgesia; surgical principles)
- **Research quality** (study design; model validity; calculating sample size; statistics; limiting confounding factors)
- **Biology & husbandry** (behaviour; housing; enrichment; nutrition; anatomy; physiology; genetics; health status)
- **Ethical review** (how to complete an Animal Ethics Committee application to ensure a rapid turn-around time)
- **Practical training** (normal behaviour; welfare monitoring; rodent handling, restraint, injections & euthanasia)

Venue: Faculty of Health Sciences, University of Cape Town, Chris Barnard building, 5th floor lecture theatre

Course fee: R 700 per person (UCT personnel); R 1,400 per person (External institutions)

Course committee

- Dr Bert Mohr – Veterinary specialist, BVSc, MMedVet, DPhil, Dipl. European College Vet Internal Medicine
- Dr Kim Tutt – Veterinarian, BVSc, Cert Veterinary Ophthalmol, Nat Dip Vet Tech, Member Royal College
- Mr Rodney Lucas – Laboratory animal technologist, National Diploma in Laboratory Animal Technology
- Sr Janet McCallum – Veterinary nurse, National Vocational Qualification in Veterinary Nursing
- Sr Inge Botes – Veterinary nurse, National Diploma Veterinary Nursing, Nat Dip Nature Cons

We look forward to welcoming you to the course!

To register: Please send your completed registration form (below) to Ms Siziwe Xozwa at Siziwe.Xozwa@uct.ac.za

Registration Form: Introductory Course in Laboratory Animal Science

PLEASE COMPLETE IN CLEARLY LEGIBLE BLOCK LETTERS

Name & surname: E-mail address:

Institution: Faculty & Department:

Qualifications: Degree enrolled for:

Name of supervisor: Animal species studied:

Short title of research:

Fund number for payment (UCT): Cost centre for payment (UCT):

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Course Schedule: Monday 13 April – Friday 17 April 2015 (daily from 12h00 to 17h00)

Day	Time	Topics	Presenters
Monday	12:00 - 13:00	Introduction; Overview of the UCT Research Animal Facility; International trends; Value of animal use for scientific purposes	Dr Bert Mohr
	13:00 - 14:00	Animal sentience; The 5 freedoms; The 4 Rs: Reduce, Refine, Replace & Responsibility; ARRIVE guidelines for publication	Dr Bert Mohr
	14:00 - 15:00	National legislation; National standards; Research integrity	Dr Bert Mohr
	15:00 - 16:00	UCT policy; Animal Ethics Committee structures & procedures	Dr Bert Mohr
	16:00 - 17:00	Moral philosophy & the ethical justification for animal research	Dr Greg Fried
Tuesday	12:00 - 13:00	***Practical***: Recognising normal behaviour; Handling, sexing and weighing rodents (mice & rats); Gaining confidence with animals	Mr Rodney Lucas, Sr Janet McCallum, Dr Kim Tutt, Sr Inge Botes
	13:00 - 14:00		
	14:00 - 15:00	Normal rodent behaviour (video); Animal handling techniques; Administering substances; Blood collection & maximal volumes	Mr Rodney Lucas
	15:00 - 16:00	Recognising discomfort, fear, pain, suffering, distress, lasting harm & physical deterioration in rodents & other species	Mr Rodney Lucas, Sr Janet McCallum, Sr Inge Botes
	16:00 - 17:00	Humane endpoints; Welfare monitoring; Quantifying pain	Dr Bert Mohr
Wednesday	12:00 - 13:00	***Practical***: Handling & restraining mice & rats; Administering mock injections (intra-peritoneal & sub-cutaneous)	Mr Rodney Lucas, Sr Janet McCallum, Dr Kim Tutt, Sr Inge Botes
	13:00 - 14:00		
	14:00 - 15:00	Microbial categories (health status) of animals; Husbandry; Environmental enrichment; Anatomy; Physiology; Nutrition	Dr Bert Mohr
	15:00 - 16:00	Genetics; Inbred *vs.* outbred populations; Genetic engineering	Dr Bert Mohr
	16:00 - 17:00	Animal models; Study design; Sample size calculation; Limiting confounding variables	Dr Bert Mohr
Thursday	12:00 - 13:30	***Practical***: Handling & restraining mice & rats; Administering injections (intra-peritoneal & sub-cutaneous); Euthanasia of rodents (demonstration)	Mr Rodney Lucas, Sr Janet McCallum, Dr Kim Tutt, Sr Inge Botes
	13:30 - 15:00		
	15:00 - 16:00	Euthanasia; Analgesia; Research on fetuses, eggs & immatures	Dr Bert Mohr
	16:00 - 17:00	General anaesthesia; Aseptic technique; Surgical principles	Dr Kim Tutt
Friday	12:00 - 13:00	Discussion session (attendees' questions, comments, debate)	Dr Bert Mohr
	13:00 - 14:00	Ethical review: Animal Ethics Committee protocol application	Dr Bert Mohr
	14:00 - 15:00		
	15:00 - 16:00	***Examination*** (written; closed book)	Ms Siziwe Xozwa
	16:00 - 17:00		