

Semen Assessment Course

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Hosted by Professor Simon de Graaf FRSN FSRB

26th-27th September 2023 | 8.30am-5pm

RMC Gunn Building, The University of Sydney, NSW

Course overview

This course offers participants the opportunity for hands on training in basic and advanced livestock semen assessment techniques. Each participant will be provided with their own phase contrast microscope, warm stage and associated items for the duration of the course in order to maximise the practical learning experience. Participants will also have the opportunity to operate benchtop and portable CASA systems, experience DIC microscopy, use of a nucleocounter for concentration assessment and more.

Course Outline Day 1: Tuesday 26th September

Session	Description
8:30-10:30am	Welcome and Lab WHS Inductions Tutorial 1: Sperm Production, Physiology and Basic semen assessment Activity 1: Motility standardisation (8 x videos)
10:30-11:00am	Morning tea
11:00-12:30pm	Tutorial 2: Equipment for basic semen assessment, microscopy 101 & lab set up Activity 2: Prepare slides & assess sperm motility subjectively on a microscope
12:30-1:30pm	Lunch and networking
1:30-2:30pm	Tutorial 3: Assessment of sperm concentration Activity 3: Prepare a haemocytometer & assess concentration on a microscope
2:30-3:30pm	Tutorial 4: Assessment of sperm morphology Activity 4: Prepare slides and assess the morphology of sperm on a microscope
3:30-4:00pm	Afternoon tea
4:00-5:00pm	Tutorial 5: Advanced equipment for morphology and concentration assessment Activity 5: Assessment of morphology by DIC & concentration by nucleocounter General discussion, Q&A

Course Outline Day 2: Wednesday 27th September

Session	Description
8:30-10:00am	Tutorial 6: Thawing and assessment of frozen semen for QC
10:00-10:30am	Morning tea
10:30-12:30pm	Activity 6: Thaw semen, assess motility, concentration and morphology on a microscope
12:30-1:30pm	Lunch and networking
1:30-3:00pm	Tutorial 7: Advanced semen assessment- CASA and other techniques Activity 7: Assess motility of thawed semen on CASA
3:00-3:30pm	Activity 8: Motility Standardisation (8 x videos)
3:30-4:00pm	Afternoon tea
4:00-5:00pm	Tutorial 8: Semen standards, laboratory QA/QC Q&A, General discussion and course feedback

Course Pricing and Registration

Pricing: \$1,600 (ex GST) for both days inclusive of all equipment, consumables, handbook, catering and certificate of completion

Please register and pay at thereproductionco.com/courses

Australian Veterinary Association CPD points

Claim 26 points for 13 hours of structured wetlabs and workshops

What to bring

- Non-permeable shoes
- Calculator
- Lab coats and safety glasses if you have them (not essential as they can be provided if needed)

Contact us

For Further Enquiries

Email: info@thereproductionco.com

Phone: 0403 295 962

n.b. This is a private event and is not organised or endorsed by the University of Sydney. The content of the event is the responsibility of the organiser and not the University.