



Student Technical Seminars 2016

Graduate Research Student Technical Induction Program

School of Clinical Sciences at Monash Health, Monash University,
Hudson Institute of Medical Research

Day 1 Tuesday 19 April 2016 - Laboratory based - TRF Seminar Room 3

9:15 - 11:00am	Laboratory Skills and OHS*
11:15 - 12:00pm	Scientific Writing
12:00 - 12:45pm	Immuno techniques

Day 2 Wednesday 20 April - TRF Seminar Room 2

9:30 - 10:15am	Animal Work
10:30 - 11:15am	Platform Technologies
11:30 - 12:15pm	Tissue Culture
12:15 - 1:00 pm	Presenting your work

Day 3 Friday 22nd April 2016 - TRF Seminar Room 2

9.30 - 11.30am	<i>Introduction to Statistics: Data management and exploratory data analysis</i>
	This introductory session covers what to consider when choosing a statistical method - research question, data type, sample size. It also covers data cleaning, basic descriptive statistics (e.g. mean, mode, range & variance) and basic graphical tools (e.g. bar chart, histogram, boxplot & scatterplot). <i>Facilitator: Dr Julia Polak, Department of Econometrics & Business Statistics.</i>
12.00 - 2.00pm	<i>What statistical methods should you be using?</i>
	This session briefly describes many of the statistical tests used in research. The main emphasis will be 'when' and 'why' a statistical test is used in a particular situation. We will talk about the four main factors that determine the appropriate test: the type of the data (interval/ratio vs. nominal/ordinal); the aim of the statistical analysis (analysis of differences vs. analysis of relationships); the number of groups in the comparison; and the relationship between the groups' members. We will discuss examples such as t-test, Pearson correlation, Mann-Whitney and Kruskal Wallis tests. <i>Facilitator: Dr Julia Polak, Department of Econometrics & Business Statistics.</i>

Register here: <https://my.monash.edu.au/news-and-events/bookings/mmcbs/>

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Note: OH&S and Laboratory Skills training is MANDATORY for PhD students commencing laboratory based projects in 2016. All other sessions are optional.