Clinical Neuroscience Research Methodology and Disease Applications (Part 1):
March 19, 20, 22 and 24 2007

Clinical Neuroscience Research, Methodology and Disease Applications (Part 1):
August 20, 21, 22 and 24 2007

Clinical Oncology Research (Part 1):
August 20, 21, 22 and 24 2007

Clinical Oncology Research (Part 2):
October 22, 23, 24 & 26 2007

FOR MORE INFORMATION CONTACT
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www.soe.unimelb.edu.au/clinicalresearch
www.soe.unimelb.edu.au/neuroscience

As a clinician in neuroscience you now have the opportunity for formal training in clinical research.

The new Specialist Certificate, led by Professor Sam Berkovic, draws on the dynamic multi-disciplinary expertise of the NHMRC-funded Centre of Clinical Research Excellence (CCRE) in Neurosciences.

Part 1: Clinical Neuroscience Research Methodology and Disease Applications: March 19, 20, 22 and 23 2007

Part 2: Clinical Neuroscience Research Methodology and Disease Applications: August 20, 21, 22 and 24 2007

These are a full fee-paying award courses (GST is applicable if attended as non-award courses).

Places are strictly limited to a maximum of 20. Contact us to register your interest in a place for 2007
Brad Atkins b.atkins@soe.unimelb.edu.au
www.soe.unimelb.edu.au/neuroscience

Clinical Neuroscience research training
where do I start?

Two 4-day short courses

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New training in Clinical Research in Neurosciences successfully delivered

In late August, a capacity group of clinical research professionals and students were welcomed to the Austin Repatriation Campus for Part 2 of the Clinical Neuroscience Research: Methodology and Disease Applications course. Nineteen leading presenters in all, including researchers from the Brain Research Institute, the Epilepsy Research Centre, and the Department of Nuclear Medicine & Centre for PET at the Austin Hospital, the School of Behavioural Science at the University of Melbourne, the Melbourne Neuropsychiatry Centre, the Van Cleef Roet Centre for Nervous Disease at the Alfred Hospital, and the Royal Children’s Hospital took part in delivering the program.

Read more inside...
The Neuroscience short courses (Parts 1 and 2) were developed by the Centre of Clinical Research Excellence (CCRE) in Neurosciences, under the academic leadership of Professor Sam Berkovic. Both courses, taken with assessment, form the Specialist Certificate in Clinical Research (Neuroscience), which can be taken either as a stand alone or as elective in the Master of Clinical Research (by coursework or research) or the Graduate Diploma in Clinical Research. These courses are offered by the University of Melbourne’s School of Enterprise in conjunction with the Faculty of Medicine, Dentistry and Health Sciences.

Neurosciences Research Methodology and Disease Applications Part 1

DAY 1
- Subject overview and participant introductions, Sam Berkovic
- Frontiers in clinical neuroscience research, Fred Mendelsohn
- Epilepsy: The current clinical research questions, Sam Berkovic
- Genetics in clinical neurological research, Sam Berkovic
- Interface of basic science with clinical research, Steven Petrov

DAY 2
- Multiple Sclerosis: The current clinical research questions, Trevor Kilpatrick
- Neuro - rehabilitation research methodology, Mary Gales
- Human brain development: recent clinical research approaches, Richard Leverant
- Neuroplasticity and neurotrophic factors: experimental research questions, David Howells
- Of mice and men: meta-analysis and the interplay of basic and clinical research, David Howells
- Group work (all participants) and assessment 2 information: literature review.

DAY 3
- Optional ‘hands-on’ computer tutorials @ Austin campus: Searching electronic databases and Endnote referencing
- Stroke: The current clinical research questions, Geoff Donnan
- Clinical trials methods - Part 1, Geoff Donnan
- Clinical trials methods - Part 2, Geoff Donnan
- An introduction to health economics, Helen Dewey
- Neuro-epidemiology: disease burden and measures, Helen Dewey
- Neuro-epidemiology: study types, Helen Dewey
- Neuro-epidemiology: disease causation and prevention, Helen Dewey
- Group work

DAY 4
- Translating clinical research findings into practice, Dominique Cadzic
- Research methods of neuromuscular disorders, Richard Macdonell
- Clinical research applications of TMS/EMG, Richard Macdonell
- Group Presentations (20-10 min. discussion) - Groups 1.2.3, Sam Berkovic
- Group Presentations (continued): Groups 4.5.6, Sam Berkovic
- General discussion + assignment questions, Sam Berkovic

“...the course has exposed me to some of the best neuroscience researchers in the country. There is an excellent overview of cutting edge research in areas of epilepsy, stroke, neuroimaging. The opportunities to meet with a range of students from different areas of health background have provided interesting interaction of experience and ideas. The concept of multidisciplinary collaboration in clinical research is very appealing."

CL, Rehabilitation Physician

Applications Part 1

• Subject overview and participant introductions, Sam Berkovic
• Frontiers in clinical neuroscience research, Fred Mendelsohn
• Epilepsy: The current clinical research questions, Sam Berkovic
• Genetics in clinical neurological research, Sam Berkovic
• Interface of basic science with clinical research, Steven Petrov
• Clinical Neuropharmacology Research Methodology, Frank Vajda
• Group presentation information for all participants (award course & non-award short courses) and assessment 1 information: critical appraisal of a paper.

DAY 2
- Schizophrenia and bipolar disorders: The current clinical research questions, Dennis Velakoulis
- Symposium info; Part 2 groups and assessment info (1) written examination
- Clinical research methodology & applications of EEG and MEG, Simon Harvey
- Cognition/memory: neuropsychological research methodology and application, Michael Salig
- Neuodegenerative diseases: The current clinical research questions, Elidon Storey

“...I had chosen to do the course because I was keen to learn about research methodologies and wanted to hear about the current research questions, particularly in relation to epilepsy. I was also looking for inspiration in general. I certainly came away feeling ‘fired up’ about clinical research and convinced that it’s not too late to get started!”

PC, Paediatric Neurologist

The program was pulled together by Dr Kathy Lefevere, CCRE Coordinator, who had previously been involved with the pilot delivery of the course. “Coordinating the efforts of such a huge group of presenters, who are all really busy people, was a major challenge” she said, “but in the end it was worth it. There was a real buzz at the Austin (Reparation), with all the people who work here networking with the respective participants during breaks”. The course was fully catered, with a fabulous menu provided during the week by an outside caterer. Interstate and overseas participants enjoyed staying at a well-appointed nearby hotel, which offered special deals for course participants.

“...Thanks for organising a very successful course. I felt I learned a lot!”

E. v. A., Basic Neuroscientist

Neurosciences Research Methodology and Disease Applications Part 2

DAY 1
- Part course overview and participant introductions, Sam Berkovic
- Schizophrenia and bipolar disorders: The current clinical research questions, Dennis Velakoulis
- Symposium info; Part 2 groups and assessment info (1) written examination
- Clinical research methodology & applications of EEG and MEG, Simon Harvey
- Cognition/memory: neuropsychological research methodology and application, Michael Salig
- Neuodegenerative diseases: The current clinical research questions, Elidon Storey

“...the current clinical research questions and methodology of autism and intellectual disability, Ingrid Schaffer

DAY 2
- Frontiers of Neuroimaging, Graeme Jackson
- How does MRI work?, Gaby Pell
- What can we see with fMRI?, Alan Connolly
- How can we image brain function? - Introduction to functional MRI, David Abbott
- Award students only: Part 2 Assignment information (2): research proposal and assessment questions
- MRI safety talk & video, plus Mock scanner, Leasha Lillywhite
- Real life fMRI language demonstration - Heather Ducie
- Designing functional neuroimaging paradigms, Leasha Lillywhite
- Quantitative imaging in neuroscience research, Heath Pardey

DAY 3
- Clinical research methodology and applications of PET/SPECT, imaging, Chris Rowe
- Ultrasound technologies and application to Stroke, Richard Gernat
- Simultaneous electrophysiology and Neuroimaging, Danny Flanagan
- Measuring brain networks using functional MRI, Tony Waits
- Diffusion imaging - How does it work and what it can it tell us?, Alan Connolly
- Measuring tracts with diffusion fibre tracking, Donald Tournier
- Measuring blood perfusion through brain tissue, Fernando Calamante

DAY 4
- Lunch at Bio21 Molecular Science and Biotechnology Institute, 35 Flemington Road, Parkville.
- Nurturing Clinical Research in Australia - Symposium

DAY 5
- Written examination of Part 2 course at Austin Towers Education Precinct