Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists

44TH ANNUAL SCIENTIFIC MEETING 2010

Found in Translation: Integrated Approaches to Drug Development

28 November – 1 December 2010
Sebel Albert Park, Melbourne

PROGRAM

ASCEPT is the professional and independent society in Australia and New Zealand with expertise in the use and toxicity of medicines and chemicals

www.ascept.org

Welcome

On behalf of the Scientific Advisory Committee and ASCEPT Council welcome to the ASCEPT annual scientific meeting for 2010 which has the theme **"Found in Translation: Integrated Approaches to Drug Development"**. We believe this meeting will be an excellent opportunity to show case the research of our members while also allowing sufficient time for those social activities to begin or renew friendships.

We hope that the combination of plenary lectures, symposia and free communications in the form of oral presentations and posters will be academically and scientifically stimulating and lead to new collaborations and research opportunities.

While attending this conference, please take a minute to consider the bigger picture of how we can improve the translation of research in Australasia. Our members have a reputation for doing great work and research and you may wish to consider what new researcher(s) you need to join your current programs to enhance the translation of your research, regardless of your specialty area. Many researchers or research teams will be at this conference, so take the opportunity to network.

We extend a welcome to our international guests from the British Pharmacological Society and the British Toxicology Society and to our exhibitors and sponsors. The Scientific Advisory Committee and ASCEPT Council welcome your feedback on every aspect of the meeting.

With kind regards

Carl Kirkpatrick
Chairperson, Scientific Advisory Committee

Kathie Knights
Immediate Past President

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Plenary Speaker
British Pharmacological Society

Simon Maxwell

Simon Maxwell is Professor of Student Learning/Clinical Pharmacology and Director of Pharmacology & Therapeutics teaching at the University of Edinburgh, where he has been active in developing e-Learning strategies to support education in this area. His clinical responsibilities include supervision of acute medical admissions and the management of outpatients at increased cardiovascular risk. He is Chair of the British Pharmacological Society (BPS) Prescribing Committee and was lead author of the core curriculum for CPT teaching in UK medical schools. He is Chair of the European Association of CPT Education Committee and Secretary of the International Union of Pharmacology and Clinical Pharmacology (IUPHAR) Education Section. He has recently been a member of the NICE drug appraisals committee, is currently a member of the Scottish Medicines Consortium, the Medicine and Healthcare products Regulatory Agency's (MHRA) Pharmacovigilance Expert Advisory Committee and is Medical Director of the Scottish Centre for Adverse Reactions to Drugs (CARDS). He was formerly Vice-President of the BPS and is a fellow of the Royal Colleges of Physicians in London and Edinburgh and of the Higher Education Academy. Since 2008 he has been the Clinical lead for the Prescribe project, a joint collaboration between the Department of Health, Medical Schools Council (MSC) and BPS to deliver a national eLearning solution to develop safe and effective prescribing amongst UK medical students. He is also leading a BPS-MSC group tasked with developing a national Prescribing Skills Assessment for all UK medical students. He is also part of an international group developing an electronic Summary of Product Characteristics (European Medicine's Agency) and a UK group tasked to develop unified prescribing documentation (Academy of Medical Royal Colleges).

Plenary Speaker
British Toxicology Society

Timothy Gant

Dr. Timothy W. Gant (TWG) trained at the School of Pharmacy, University of London graduating BSc joint honours Toxicology and Pharmacology in 1985. TWG stayed on at the same institution for a PhD in Pharmacology graduating in 1988. From there he travelled to the National Cancer Institute (NCI) Bethesda Maryland, USA for a postdoctoral period in the laboratory of Dr Snorri S. Thorgeirsson and stayed for a further period as a visiting fellow. At the NCI TWG worked on the regulation of the recently described ABCB1 (MDR1) gene and developed an interest in drug resistance and ABC class transport proteins that continues to date. TWG returned to the UK in 1993 to a position in the Medical Research Council Toxicology Unit. Here he worked extensively on mechanisms of Tamoxifen hepatocarcinogenesis that was a major focus of the unit at that time. TWG achieved tenure in 2001 and remains at the MRC Toxicology Unit where he runs the Systems Toxicology Group. Additionally TWG was made Reader in the Department of Genetics, University of Leicester in 2101. The evolution of the Systems Toxicology group started with TWG's interest in transcriptional gene regulation and built on the development of the microarray from the Stanford laboratories of Prof. P.O. Brown at UCSF. Following their published MGuide designs in collaboration TWG built a microarrayer at the MRC Toxicology Unit, gathered a collection of EST clones and started work. Since then TWG has used genomics in a variety of disease and toxicological models. In the process he gained extensive experience in the production and use of microarrays, and data analysis. His bioinformatics experience is built from the programming level upwards. Application of genomics technology goes beyond the narrow confines of transcriptomics. Of particular current interest is the analysis of miRNA expression, mRNA translation and epigenetic modification. Standing still is not an option and so TWG is currently investigating the 'where next' for which the likely addition to the technological armoury will be high throughput sequencing. Furthermore at the present time the group is investigating the use of differentiated stem cells (cardiac, liver and germ line) as potential in vitro models for chemical and drug testing with high throughput technologies.

ASCEPT Lecturer

Felix Bochner

Professor Felix Bochner graduated in medicine from the University of Queensland in 1963. He obtained a MD in 1974 and in the same year became a Fellow of the Royal Australasian College of Physicians. He is a staff specialist and clinical pharmacologist and was Professor of Clinical Pharmacology in the Department of Clinical and Experimental Pharmacology, University of Adelaide from 1980-2005 and Head of the Department from 1980-2003. His skills as a clinical teacher have been recognised with The Mark Bonnin Prize and The Richard Pellew Prize for outstanding teaching and service to medical students of the University of Adelaide in their preclinical and clinical years. Professor Bochner has held numerous administrative positions including Chairman of the Investigational Drugs Subcommittee of the Research Ethics Committee, Royal Adelaide Hospital since 2005 and Chairman of the Adelaide Women's and Children's Hospital Research Grants Committee of the Hospital's Research Foundation. More recently he held the position of Chairman of the Editorial Advisory Board (1996-2010) of the Australian Medicines Handbook and was a Member of Board of Directors (1997-2000) and Chairman of the writing group for: Therapeutic Guidelines Endocrinology Edition 1 (1997) and Therapeutic Guidelines Psychotropic Edition 4 (2000). In addition to these roles Professor Bochner is author or co-author of 2 books and 160 research papers since 1969 and has served on numerous editorial boards. Additionally he has supervised or co-supervised 20 successful doctoral students. Professor Bochner was ASCEPT President 1998-1999 and was elected to Life Membership of ASCEPT in 2005. In 2010 he was appointed as Member of the Order of Australia and he currently hold the position of Professor Emeritus at the University of Adelaide.

Plenary Lecturer

Julio Licinio

Professor Licinio is Director of the John Curtin School of Medical Research at the ANU, where he also heads the Translational Medicine Department. Professor Licinio came to Australia in September of 2009. Prior to that, he worked for 25 years in the United States at University of Chicago, Albert Einstein College of Medicine, Cornell, Yale and NIH. His last appointments were as Director of the Translational Science Graduate Program and Vice-Chairman of Psychiatry at University of California, Los Angeles (UCLA) and Chairman of Psychiatry and Associate Dean (Translational Science) at University of Miami. He is currently a member of an NIH review panel and has served as member of the US Secretary of Health and Human Services Advisory Committee on Genetics, Health, and Society. Professor Licinio is trained in endocrinology, psychiatry and neuroscience and his research is focused on translational pharmacogenomics of obesity and depression. He is the founding editor of Molecular Psychiatry and The Pharmacogenomics Journal, both by the Nature Publishing Group.

Symposium Speakers

David Adelson

David Adelson is Professor and Chair of Bioinformatics and Computational Genetics, in the School of Molecular and Biomedical Science at the University of Adelaide. Prof. Adelson's current research focuses on the computational analysis of repetitive, so called "Junk DNA" in mammalian genomes and on bioinformatic tools to mine Quantitative Trait Loci. He has led the analysis of repetitive DNA for the Bovine and Equine genome sequencing consortia and is currently working on the Elephant, Armadillo and Sheep repetitive DNA analyses. In addition to genome analysis, Prof. Adelson is also a founding member of bovinegenome.org, a single point of integration for bovine genome data. Prof. Adelson is currently Head of School for Molecular and Biomedical Science.

Emilio Badoer

Professor Badoer coordinates several courses and the BSc Biomedical Science (Pharmaceutical Sciences) program. He has also taught pharmacology and physiology at Melbourne and Monash Universities. In addition, he supervises several postgraduate and Honours students and Postdoctoral Fellows. He has received teaching awards and funding for innovative teaching and learning initiatives at RMIT. Professor Badoer is an active, passionate and productive research leader. He is the head and leader of the Neuropharmacology and Neuroinflammatory Laboratory. The laboratory consists of Post-Doctoral Fellows, PhD students and Honours students. Research assistants and international Postdoctoral Fellows have also contributed. The group has received national and international recognition, for the work that has highlighted the role of specific subgroups in the brain and the role of the brain in the symptoms of chronic diseases. The group has a number of successful collaborative projects with scientists both within and outside RMIT.

Ross Bathgate

Ross Bathgate is the leader of the Neuropeptides division at the Florey Neuroscience Institutes in Melbourne. He is a National Health and Medical Research Council (NHMRC) Senior Research Fellow and an Honorary Associate Professor in the Department of Biochemistry and Molecular Biology at the University of Melbourne. His work focuses on the relaxin family peptides and their G-protein coupled receptors. He has published over 160 scientific papers including numerous invited reviews on relaxin family peptides and their receptors with a total of over 2300 career citations. His work has attracted funding from the NHMRC, other Australian funding bodies as well as pharmaceutical companies.

Melissa Baysari

Melissa Baysari is a Research Fellow at the Australian Institute of Health Innovation (AIHI), University of New South Wales, and is located within the Department of Clinical Pharmacology and Toxicology, St Vincent's Hospital. She has a background in behavioural psychology and post-doctoral experience in human factors – the identification and classification of errors leading to rail incidents and accidents. Melissa has a particular interest in understanding human error and the factors that contribute to error occurrence. Melissa is involved in a research program investigating the decision making process of selecting medicines for prescription. Specifically, her work is exploring the impact of computerized decision support on the selection and execution of medication plans by doctors.

Mac Christie

Mac Christie is a cellular and molecular neuropharmacologist. He completed a PhD at The University of Sydney in 1983. He was an Australian Postdoctoral Fellow in Melbourne in 1985 (NH&MRC), a Fogarty Fellow at Massachusetts Institute of Technology from 1985–1987 and was then at the Vollum Institute in Oregon, USA from 1987–1990. He has been at The University of Sydney since 1990 where he is currently Director of Neuropharmacology at the Brain & Mind Research Institute. He has been an NH&MRC Senior Principal Research Fellow since 2003 and is a Chief Investigator on an NH&MRC Program Grant (2005–2013) to identify novel pain therapeutics based on conopeptides. His research focuses on cellular and molecular mechanisms of opioid receptor signalling in neurons and synapses in pain pathways, the biological basis of adaptations producing chronic pain and drug dependence, and preclinical development of novel pain therapeutics. This work is being undertaken by integrating molecular and cellular physiological methods in nerve cells that form pain pathways with animal behavioural models of these diseases. His work on opioids is determining the mechanisms by which membrane proteins in neurons and synapses drives loss of responsiveness to these drugs and excessive excitation of nerve cells during opioid withdrawal. In future, new drugs that target these molecules may in lessen opioid tolerance and/or alleviate withdrawal, both major clinical problems in pain management, or even assist with recovery from opioid addiction.

Iain Comerford

I am currently a Multiple Sclerosis Research Australia (MSRA) Fellow and my major research interest regards the molecular mechanisms of immune cell trafficking in central nervous system (CNS) inflammation. In particular, I am interested in the role of chemokines, chemokine receptors and their signalling intermediaries in this process and aim to understand and harness the endogenous mechanisms regulating this system in the context of CNS inflammatory disease. I also have a strong interest in understanding the specific role of different trafficking receptors at different stages of CNS inflammation with a view to identifying novel targets for therapeutic intervention in MS. I completed my doctoral studies at the Beatson Institute for Cancer Research and the University of Glasgow in the UK between 2002–2005 with Dr Robert Nibbs. During this time I pioneered work into the function of a novel chemokine receptor and regulator, CCX-CKR and was awarded the prestigious Beatson career development award in 2004. Since 2005, I have been undertaking research within the School of Molecular and Biomedical Science at the University of Adelaide in the Chemokine Biology Laboratory headed by Professor Shaun McColl. During this time we have published several manuscripts in the fields of chemokine biology and CNS inflammation in leading international journals such as Blood, the Journal of Immunology, the European Journal of Immunology, the Journal of Biological Chemistry, and Brain Pathology.

Richard Day

Richard Day is Professor of Clinical Pharmacology at UNSW and St Vincent's Hospital Sydney. He has a clinical practice in Clinical Pharmacology, Clinical Toxicology, and Rheumatology. He has particular interests in promoting the quality of use of medicines (QUM). He was chair of PHARM for the Federal Government 1999–08, was a director of Medical Benefits Fund, is a Director and President of the international Drug Information Association (DIA), was a member of the Medication Safety Taskforce for the Australian Safety and Quality Council, is chair of NSW Medication Safety Committee, was chair of the NPS (National Prescribing Service) R&D committee (2008–10), co-chair of the electronic medication management reference committee for the National e-Health Transition Authority and ex officio member ARA Therapeutics Committee. He is the academic in charge of the Masters in Medical Science in Drug Development in the Faculty of Medicine at UNSW. This is a national and international distance education programme dedicated to excellence in medicines and device development. His research focuses upon QUM and the pharmacotherapy of gout, diabetes, and psychotic disease. He is also researching methods of enhancing the safe use of medicines using electronic medication management and decision support tools as one of five Chief Investigators on a NH&MRC Programme Grant (2009–13).

Stephen Duffull

Stephen Duffull is currently a Professor and Dean of the School of Pharmacy at the University of Otago. He was awarded the Johnson and Johnson Young Investigators award in 2000 by the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT). Prof Duffull is on the editorial board of five journals including Clinical Pharmacokinetics and Journal of Pharmacokinetics and Pharmacodynamics and acts as an external referee for a number of journals in the area of quantitative pharmacology including Clinical Pharmacology and Therapeutics and British Journal of Clinical Pharmacology. He has been invited to speak at more than 30 international meetings and has adjunct appointments at the University of California, San Francisco and the School of Pharmacy, University of Queensland. Prof Duffull is the editor of a book on clinical trial simulation. Prof Duffull has over 15 years experience in the area of pharmacokinetics and pharmacodynamics and contributed more than 130 peer reviewed scientific publications. Prof Duffull is on the organising committee for PAGE (Europe) and PAGANZ (Australia/New Zealand) meetings and contributes to regulatory and professional bodies such as the Pharmacy Council of New Zealand and the New Zealand College of Pharmacists as well as numerous other professional and university committees.

John Duley

John did his PhD during the early 1970s in 'Biochemical Genetics', when that meant 'animal breeding', not 'PCR'. He spent 16 years at the Mr Thomas Guy's Hospital, London, and there he rediscovered what the great Sir Archibold Garrod said in 1912, that Pharmacogenetics is a branch of Metabolic Diseases. In the process, John established the largest pharmacogenetic service in Britain. In 2003, he returned to Australia, to work in Pathology at the Mater Hospital, as well as the new Pharmacy Centre of Excellence in the University of Queensland.

Mukesh Haikerwal

Dr Mukesh Haikerwal is a practicing General Medical Practitioner, Commissioner to the National Health and Hospitals Reform Commission and Professor in the School of Medicine in the Faculty of Health Sciences at Flinders University in Adelaide, South Australia. He is currently working with the National e-Health Transition Authority (NEHTA) as the National Clinical Lead, leading a team of healthcare providers from multi disciplinary backgrounds, to assist in NEHTA's liaison with the healthcare community and to provide input into the development of the NEHTA work program to deliver e-health for Australia. He was also the former head of the Federal Australian Medical Association (AMA) that is responsible for national policy development, lobbying with federal parliamentarians, co-ordinating activity across the AMA State entities and representing the AMA and its members nationally and internationally.

David Harrison

Dr. Harrison is the Bernard Marcus Professor of Medicine. He received his MD degree from the University of Oklahoma in 1974 and obtained his house staff and clinical cardiology training at Duke University. From 1980 to 1982, he completed a cardiovascular research fellowship at the University of Iowa. In 1982, he joined the faculty at the University of Iowa, and was promoted to the rank of Associate Professor in 1987. In 1990, he moved to the Cardiology Division at Emory University, where he was appointed Professor of Medicine. In the 1980s and 1990s, Dr. Harrison has serviced as the Director of Cardiology at both the Iowa City and Atlanta VA hospitals and in 2000 was named the Director of Cardiology at Emory. He served in that capacity until January 2009. Dr. Harrison's career has been devoted to basic research related to vascular function and mechanisms of hypertension, the practice of cardiology and the education of young physicians and investigators. Dr. Harrison received the Novartis Award from the American Heart Association Council on High Blood Pressure, which is the highest award given for hypertension research from this organization. He received the Carl J. Wiggers Award, the highest honor given by the Cardiovascular Section of the American Physiological Society, in 2010. In that year, he also received the Distinguished Scientist Award from the American Heart Association.

Robert Harrison

After graduating from Nottingham University (BSc Zoology) and the London School of Hygiene and Tropical Medicine (MSc-Medical Parasitology; PhD-immunology of schistosomiasis), Harrison's interests in the development of vaccines against schistosomiasis and onchocerciasis took him on various postdoctoral scientific adventures to Kenya, California and Egypt before he found a more permanent home in Liverpool. Now, Head of the Alistair Reid Venom Research Unit and Senior Lecturer at the Liverpool School of Tropical Medicine, Harrison and his team conduct a variety of research activities with the objective of 'improve the treatment of snakebite'. This includes the provision of antivenom to treat rural snakebite victims in Nigeria through a collaboration (the EchiTAb Study Group) with the Nigerian Federal Ministry of Health, the University of Oxford and antivenom producers in UK and Costa Rica. Our laboratory research is currently focussed on developing (i) toxin-specific antivenom with cross-generic therapeutic cover, (ii) antivenom with lower risk of adverse effects than conventional equine and ovine antivenoms, and (iii) an antibody-based treatment of the tissue-destructive effects of snake envenoming – a frequently disfiguring effect of snakebite that is not effectively treated by antivenom or any other medicinal therapy.

Wayne Hodgson

Professor Hodgson is Head (Teaching & Research Training) of the Department of Pharmacology and Head of the Monash Venom Group at Monash University. He is a leading Australian toxinologist responsible for isolating and pharmacologically characterising a wide range of animal venoms/toxins. He has published more than 100 papers on the pharmacology of venoms/toxins/antivenoms including papers in Nature, PNAS, JPET and JBC. Professor Hodgson is currently on the editorial boards of Toxicon and the Journal of Pharmacological and Toxicological Methods.

Geoff Isbister

Associate Professor Isbister is a senior research academic in the Discipline of Clinical Pharmacology, University of Newcastle and staff specialist at the Calvary Mater Newcastle. He is a leading Australian clinical toxicologist undertaking research on snake and spider envenoming including the effectiveness of antivenom therapy. He has published more than 150 papers in clinical toxicology/toxinology. Associate Professor Isbister is currently on the editorial board of Toxicon, was the ASCEPT British Toxicology Society Lecturer in 2009 and won the IUTOX Early Toxicologist Award in 2010.

Richard Lewis

Professor Lewis has over 20 years experience leading multidisciplinary research on the pharmacology and structures of marine toxins, especially the ciguatoxins and conotoxins. Much of his research is focussed on the discovery and molecular pharmacology of marine bioactives. This research resulted in the discovery of two new classes of peptides that allosterically inhibit either the a1-adrenoceptor (r-conopeptides) or the norepinephrine transporter (c-conopeptides). The therapeutic potential of the c-conopeptides and a novel w-conotoxin that inhibits N-type calcium channels (CVID) has been evaluated clinically, with both peptides showing promise in the treatment of pain. I am a co-founder of Xenome Ltd, a spin-off company established by the University of Queensland that is developing the pharmaceutical potential of venom peptides.

Jennifer Martin

I am a general physician and clinical pharmacologist at the Princess Alexandra Hospital, Brisbane and the Head of the Southside Medical School, University of Queensland. I have been teaching medical students since 1992 (University of Otago) and have subsequently developed teaching and curriculum programmes and mentored both medical students and junior doctors at Canterbury Health, Monash and Melbourne Universities and UQ. Here I currently teach medical, masters pharmacy and population health students in addition to coaching basic and advanced physician trainees, supervising medical PhD students at the Diamantina and PA Hospitals, and lecturing at the School of Population Health. My research interests cover clinical pharmacology from bench and animal research to clinical research and trials and am the Australasian investigator for an international study on drug induced liver injury. I am a recent member of a number of Government pharmaceutical/pharmacology committees including PBAC and the economic subcommittee of PBAC, as well as the Therapeutic Guidelines and Australian Medicines Handbook. I sit on clinical pharmacology Journal Editorial Boards and am the inaugural chairperson of the Queensland Health Medicines Collaboration. I am very interested in the development of the pharmacogenetic area as one are that could potentially improve patient care, but with my expertise in policy, medical ethics and health economics I am also very aware of the impact of this field on the clinical, sociological, ethical and economic issues currently facing us.

Adam McCluskey

As Professor of Chemistry at the University of Newcastle, I am a teaching and research academic. I am a medicinal chemist, with multiple, strong national and international collaborations developing novel anti-epileptic, anti-parasitic, anti-malarial and anti cancer agents. I am known for elegantly simple synthetic approaches to complex molecules and the development of drugs acting via novel modes of action. My most significant contributions are in the area of dynamin GTPase inhibitor medicinal chemistry. My team is responsible for all the known inhibitors (but one; dynasore), and in one library iteration we effected a ~100 fold improvement in dynasore's potency of this inhibitor with the synthesis of the 'dyngos'. We have progressed more advanced agents to animal studies (epilepsy & kidney disease). Recent efforts have seen installation of Australia's 1st flow chemistry laboratory, a technology that ushers in a new era of medicinal chemistry possibilities. We are leading Australia in the implementation of this technology, and consequently the its outcomes. This was supported by the award of the 2009 Ramaciotti Biomedical research Award ($1M) and an Australian Cancer Research Foundation Grant ($3.1M) to establish a world first Centre for Kinomics. I am also an educator, recognised as innovating and excelling in this role with the receipt of teaching awards, but also in the successful supervision of >30 honours students, 10 PhD completions (9 current students) supervised 14 postdoctoral fellows (2 current).

Charles Mackay

Professor Mackay is an international authority in the field of leukocyte migration. His research aims to understand mechanisms of immune cell migration, particularly with respect to inflammation, and the translation of this into new therapeutics for inflammatory diseases and cancers. Professor Mackay is an eminent Australian immunologist who has made clearly identifiable contributions to fundamental immunology as well as biotechnology and the development of new anti-inflammatory therapies. Professor Mackay joined Monash University in 2009. Previous postions held by Professor Mackay include as Director of the Immunology and Inflammation Research Program at the Garvan Institute, and as Director of Immuonology at Millennium Biotherapeutics in Cambridge, MA USA. Professor Mackay holds a B.Sc (Hons) from Monash University and a PhD from the Department of Veterinary Pre-clinical Sciences at the University of Melbourne.

Ross McKinnon

Professor Ross McKinnon is Professor of Pharmaceutical Biotechnology in the School of Pharmacy and Medical Sciences and former Director of the Sansom Institute at the University of South Australia. He has broad research interests in molecular pharmacology including pharmacogenomics and personalised medicine. He is co-founder of PharmaQest Pty ltd which is currently progressing a novel skin cancer chemopreventive through clinical trials. His current roles include Chair of the South Australian Tall Poppy campaign, Director of the Australian Institute of Policy and Science and he is immediate past-president of the Australasian Pharmaceutical Science Association. Other roles include membership of the CSIRO Health Sector and P Health Advisory Boards and TGA's Pharmaceutical Science subcommittee. He was recently admitted as a member of the NHMRC Academy for 2010.

William Runciman

William (Bill) Runciman is Professor of Patient Safety and Healthcare Human Factors at the University of South Australia, and was Foundation Professor of Anaesthesia and Intensive Care at the University of Adelaide. He is President of the Australian Patient Safety Foundation, and a member of the International Patient Safety Classification Group and Co-chair of the Research Methods and Measures Group of the World Alliance for Patient Safety, World Health Organization. He is a Research Fellow with the Joanna Briggs Institute and the Australian Institute of Health Innovation of the University of New South Wales and a Chief Investigator with the NH&MRC Research Grant team investigating Patient Safety: enabling and supporting change. He worked as an Intensive Care consultant for over 30 years and has published over 200 scientific papers and chapters, and a book – Runciman, Merry & Walton Safety and Ethics in Health Care: A Guide to Getting it Right (Ashgate 2007). He has been conferred the Pugh Award in recognition of his outstanding contribution to the science of anaesthesia and related disciplines, and the Sidney Sax Medal for outstanding achievement in health services policy, organization, delivery and research.

Jeff Schwartz

After receiving degrees at the Universities of Michigan (BS, Chemistry and Cellular Biology) and California (PhD, Endocrinology), Jeff Schwartz was a research fellow at the Medical College of Wisconsin, Salk Institute, and Prince Henry's Institute of Medical Research. He was on academic staff at the University of California at San Diego, Monash, Wake Forest University and the University of Adelaide. Since 2009 he has been the academic manager for years 1 and 2 of Griffith University School of Medicine. His research can be characterised as defining new roles for old hormones and endocrine cells. This began with work on cardiovascular and other extrarenal actions of vasopressin, and continued with the characterization of functional cellular heterogeneity and cell-cell interactions within the anterior pituitary. More recently, he has applied novel approaches to understanding unexpected changes in fetal endocrine axes as they develop. His current research interests include the interactions between genetic and environmental factors in development of endocrine axes. In addition to academic responsibilities, he has held numerous editorial posts, served on research-funding panels and consulted on biomedical educational programs. His current major extramural service is on a research evaluation committee for the ERA.

Chris Sobey

A/Prof Sobey is an expert in basic studies of cerebral artery function with more than 90 publications in vascular diseases involving oxidative stress and inflammation. He obtained his Ph.D. in 1991, and has been awarded NHMRC CJ Martin and RD Wright Fellowships to conduct postdoctoral studies including 2 years at the University of Iowa. He is currently an NHMRC Senior Research Fellow, a member of 8 Editorial, and is Chief Investigator on 5 NHMRC Project Grants. His current research is investigating the inflammatory mechanisms occurring in the brain after stroke in order to identify and develop novel approaches to treat clinical stroke patients.

Andrew Somogyi

Andrew Somogyi is Professor in Clinical and Experimental Pharmacology, Faculty of Health Sciences at the University of Adelaide. His major research interests are in examining interindividual variation in drug response through clinical pharmacokinetic, pharmacodynamic and clinical outcomes studies underpinned by pharmacogenomics. He currently has NHMRC and ARC funding for pharmacogenetic studies involving drugs for pain, addiction, transplantation and diabetes, serves on several international Pharmacogenetic and Clinical Pharmacology journal editorial boards and has established a pharmacogenetics service at the Royal Adelaide Hospital. He was recently awarded an honorary fellow of the Faculty of Pain Medicine, Australian and New Zealand College of Anaesthetists.

Ieva Stupans

Professor Ieva Stupans is has been recently appointed to the University of New England where her primary responsibility will be to lead the introduction of the Bachelor of Pharmacy into the university. She has had extensive experience in teaching and learning across health sciences and nursing, and has taught pharmacology in both post graduate and undergraduate health sciences programs for more than 20 years. She is an ALTC fellow and is currently undertaking a program of activities around "Supporting student transition to a futures orientated professional identity". She has led a number of pharmacy focussed ALTC projects "Pharmacy Quality Indicators for Best Practice Approaches to Experiential Placements in Pharmacy Programs" and ''The Outcomes-based Planning, Graduated Descriptors and Quality Indicators for Pharmacy Experiential Placements' follow-up project".

Ross Vlahos

Dr Ross Vlahos has a long-standing interest in respiratory diseases, in particular asthma and COPD. His research has included the effects of potassium channel opening drugs on airways cholinergic transmission and the effects of existing and novel anti-asthma drugs on airway hyper-responsiveness and airway wall remodelling. More recently, he has developed unique murine models of COPD to identify therapeutic targets to treat this debilitating disease. Ross is actively involved in presenting his work at both national and international conferences, is a regular invited speaker at local and international laboratories and has been an active member of ASCEPT since 1991. Ross has co-authored 33 research papers in peer reviewed journals and 2 chapters in published books. He has obtained project grants from foundations, hospitals, Universities and industry and has been awarded 5 nationally competitive NHMRC Project Grants since 2001. Ross is a reviewer of competitive research grants for various funding agencies (eg NHMRC, Asthma Victoria) and manuscripts submitted to international journals. He has served on NHMRC Scholarship Grant Review Panels 2007 – 2009, has been involved in "Organizing and Program Committees" for national and international conferences and Chairs sessions at various conferences. Ross supervises BSc (Hons) and PhD students and contributes to teaching by lecturing postgraduate students on lung disease. Dr Vlahos has played a major role in commercially funded work that has confidentiality/patent agreements.

Johanna Westbrook

Professor Westbrook is Director of the Centre for Health Systems and Safety Research (CHSSR), Australian Institute of Health Innovation (AIHI), Faculty of Medicine, University of New South Wales. Her research expertise centres on the design and execution of complex multi-method evaluations in the health sector with a particularly focus on the effective use of information and communication technologies. As part of an NHMRC program grant shared with colleagues at the AIHI, she is leading research on medication safety, the effectiveness of electronic medication management systems to reduce errors and safe work and communication practices in hospitals. Professor Westbrook has an extensive publication record which includes over 200 refereed publications. She has attracted in excess of $26M in research funding and won several awards for her research.

ASCEPT CAREERS WORKSHOP: CAREERS BEYOND THE BENCH

Sebel Albert Park, Melbourne, Vic
Sunday November 28th 2010, 1100 – 1300

Outline of Workshop: The workshop will feature successful scientists who have pursed careers that have involved a combination of "at the bench" and "beyond the bench" components. The workshop is designed to provide students and postdoctoral fellows with an insight into career options available to them beyond a traditional, laboratory-based research career. Panellists will discuss issues including the career path leading to their current role, day to day tasks, positive and negative aspects of the job, remuneration packages etc. There will also be plenty of opportunities for questions including a panel discussion at the end of the session.

Facilitators:

Dr Barbara Kemp-Harper (Senior Research Fellow, Monash University) & Ms Anna Davey (PhD Student, Monash University)

Speakers:

1. Dr Graham Mackay (Lecturer, The University of Melbourne)
   "A University Teaching and Research Career: The Best of Both Worlds?"
2. Dr Rebecca Lew (Senior Medical Writer, ProScribe Medical Communications)
   "Medical writing: What is it and is it right for me?"
3. Dr Sharyn Fitzgerald (Senior Research Fellow, ASPREE Regional Manager and Coordinator)
   "Not tonight dear, I have a headache!"
4. Dr Janith Wickramaratna (Senior Regulatory Scientist, Existing Chemicals Program, NICNAS)
   "A Career in Regulatory Science"
5. Panel Discussion

Target Audience: Honours students, PhD students and early career postdoctoral fellows

Dr Graham Mackay

Lecturer, Department of Pharmacology, The University of Melbourne

Graham Mackay carried out his training in Pharmacology in the UK. He has followed a fairly traditional pathway into academia completing a PhD and then two post-doctoral positions in London and the USA. Graham will talk about the day-to-day diversity in a University teaching and research career that can make the position busy but immensely satisfying and enjoyable.

Graham has been a lecturer in Pharmacology at one of Australia's smallest and largest Universities. Experiences at both institutions will be shared and compared. He will examine opportunities for 'testing the water' in teaching, discuss possibilities of teaching-rich academic careers and suggest ways to retain a healthy research output concurrently with other academic responsibilities.

Dr Rebecca Lew

Senior Medical Writer, ProScribe Medical Communications

Rebecca obtained her PhD in Physiology from the University of Virginia and, shortly thereafter, migrated to Australia with her pharmacologist husband. She worked briefly as a postdoc at Prince Henry's Institute before moving to the Baker Medical Research Institute (as it was then known) in the laboratory of Ian Smith. Rebecca and Ian maintained a long, productive collaboration at the Baker, and later at Monash University, studying the role of peptide hormones and the enzymes that metabolise them. While at Monash, Rebecca was also a part-time lecturer in the Department of Biochemistry and Molecular Biology, and she continues to be the editor of the Australian Biochemist, the member magazine of the Australian Society of Biochemistry and Molecular Biology.

Rebecca made a career switch in 2006 when she joined ProScribe Medical Communications as a medical writer, where she is currently a Senior Medical Writer. Rebecca has extensive experience in writing a range of documents, with particular expertise in manuscripts. In addition to her work with ProScribe, Rebecca has been an author on more than 50 peer-reviewed publications. She has delivered a number of medical writing courses to pharmaceutical clients and has also developed ProScribe's internal training program.

Dr Sharyn Fitzgerald

Senior Research Fellow, ASPREE Regional Manager and Coordinator, Monash University

Sharyn Fitzgerald obtained her PhD from Monash University in 1997. Sharyn's PhD studies and early post-doc years provided her with a firm grounding in integrative physiology, examining blood pressure control under normal conditions and disease states (diabetes/obesity) using animal models. Subsequently, Sharyn felt the desire to examine this relationship in humans. In 2007-2009 she undertook a Masters in Public Health (MPH; part-time) which was instrumental in providing her with the ability to successfully transition from lab-based to clinical research. The MPH course allowed Sharyn to see that whilst her earlier studies in basic science clearly identified important factors in blood vessel and blood pressure regulation in disease, there is also a need to examine why therapies/interventions for primary and secondary prevention of disease (e.g. antihypertensive medications, weight management) are not readily taken up by patients. In Sharyn's current position she is able to utilize the project management, organizational skills and basic physiology understanding she gained during her PhD and early post-doc years together with the clinical application in the human condition. Sharyn is now working on the largest community good clinical trial in Australia, recruiting 12,500 elderly participants to be part of the ASPREE study – ASPirin in Reducing Events in the Elderly.

Dr Janith Wickramaratna

Senior Regulatory Scientist, Existing Chemicals Program, NICNAS

Dr Janith Wickramaratna is a Senior Regulatory Scientist in the Existing Chemicals Program of the National Industrial Chemicals Notification and Assessment Scheme (NICNAS) within the Australian Government Department of Health and Ageing. He has 7 years experience in government regulation of industrial chemicals. At NICNAS he is a project manager on a major reform initiative that will screen the large number of unassessed chemicals on the Australian Inventory of Chemical Substances. In addition to undertaking assessments he has represented Australia at the OECD High Production Volume (HPV) Program meetings. He has a Doctor of Philosophy degree in Pharmacology and an Honours Degree in Bachelor of Sciences (Biomedical) from Monash University, Australia. He also holds a Master of Professional Accounting degree from University of Southern Queensland and a Graduate Certificate in Public Sector Management from the Flinders University.

ASCEPT STATISTICS WORKSHOP: STATISTICS FOR CLINICIANS

Sebel Albert Park, Melbourne, Vic
Sunday November 28 2010
1000 – 1230

The language of clinical research is statistics. This workshop will introduce key concepts in statistics directed at critical appraisal. This workshop is put on by the Clinical SIG for all ASCEPT members.

Facilitator:

Matt Doogue, Clinical Pharmacologist, Flinders University

Speakers:

1000 – 1030 A question of confidence – David Vaux, La Trobe University

1030 – 1100 Is one of these just like the other one – Evan Begg, University of Otago, NZ

1100 – 1120 Morning Tea

1120 – 1150 You probably don't know P – Michael Lew, University of Melbourne

1150 – 1230 Panel Discussion

David Vaux

David Vaux is a medical researcher based at La Trobe University where he studies the molecular mechanisms of cell death. In his spare time he advocates establishment of an Australian Office for Research Integrity, and talks to scientists and science editors (and, frankly, anyone else who will listen) about how errors enter the scientific literature and how they might be corrected.

Abstract

Science is knowledge gained through repeated observation or experiment. It is communicated through publication of papers in journals. Science can only flourish if journals maintain minimal standards, and papers are read critically. In this talk I will propose some rules of thumb for the presentation of data in publications that can also be used when interpreting other people's papers. The talk will be illustrated by numerous examples of papers by high profile researchers in prestigious journals that would only have had some value had they been printed on more absorbent paper with perforated pages.

Evan Begg

Prof Evan Begg is not a statistician. He is a Clinical Pharmacologist with a lay interest, who recognised early that the basis of Clinical Pharmacology is pharmacokinetics, and much of pharmacokinetics is based on statistics. He is Professor of Clinical Pharmacology/Medicine, University of Otago, Christchurch, New Zealand, and currently Chairman of the STC.

Abstract

The practice of statistics by Clinical Pharmacologists largely involves answering the question "is there a difference?" The null hypothesis says 'no'. Our studies often fail to achieve the revered $p<0.05$. Does this mean there is no difference? A famous paper by Altman and Bland (1995) stated "Absence of evidence is not evidence of absence". Failure to attain $p<0.05$ merely means that no difference was demonstrated, not that there is no difference. The statistics of equivalence looks at the problem the other way around, enabling statements to be made that (according to predefined criteria) there is no difference. An example in Clinical Pharmacology is bioequivalence studies, in which the aim is to demonstrate "equivalence" say between a new generic medicine and the gold standard comparator. The concepts behind the above will be discussed.

Michael Lew

Michael Lew is a senior lecturer in pharmacology at the University of Melbourne with a strong background in quantitative analysis. He was convinced to see the errors of his statistical ways by Professor John Ludbrook and thereafter has been more than pleased to show others.

Abstract

It is not much of a stretch to say that P values are the currency of biomedical research: projects are made and broken by P values. And yet few who calculate P values know what they really mean. This talk will allow challenge participants to test their understanding and will use interactive simulations to show where the common interpretations of P values fall apart. The null hypothesis is that there is a positive correlation between scientists' confidence and their P knowledge, but $P<0.05$, so if you think that you don't need to attend this session, you probably do.

Sunday 28th November

1000 – 1100	**Statistics for Clinicians Workshop** CHAIR: Matt Doogue ROOM: Grand 2	1100 – 1300	**Careers Workshop** CHAIR: Barbara Kemp-Harper, Anna Davey ROOM: Grand 3 & 4
1000 – 1030	**A question of confidence** – David Vaux, La Trobe University	1100 – 1125	**A university teaching and research career: The best of both worlds?** – Graham Mackay, University of Melbourne
1030 – 1100	**Is one of these just like the other one** – Evan Begg, University of Otago, NZ	1125 – 1150	**Medical writing: What is it and is it right for me?** – Rebecca Lew, ProScribe Medical Communications
1100 – 1120	**Morning Tea** ROOM: Grand Lobby	1150 – 1215	**Not tonight dear, I have a headache!** – Sharyn Fitzgerald, ASPREE
	Statistics for Clinicians Workshop cont…	1215 – 1240	**A career in regulatory science** – Janith Wickramaratna, NICNAS
1120 – 1150	**You probably don't know P** – Michael Lew, University of Melbourne	1240 – 1300	**Panel Discussion**
1150 – 1230	**Panel Discussion**		
1300 – 1400	**Lunch** ROOM: Grand Lobby		
1300 – 1400	**Pharmacogenomics SIG AGM** ROOM: Grand 3		
1300 – 1400	**Toxicology SIG** ROOM: Grand 2		
1400 – 1600	**Exploiting Novel Drug Discovery Paradigms** CHAIR: Arthur Christopoulos ROOM: Grand 5 & 6	1400 – 1600	**Clinical Pharmacology Trainee Session** CHAIR: Evan Begg Grand 3 & 4
1400 – 1430	**Differential signalling of opioid receptors** – Mac Christie, University of Sydney	1400 – 1415	**Prevention of Diabetes and Reduction in Major Cardiovascular Events in Studies of Subjects with Impaired Glucose Tolerance: Meta-Analysis of Randomized Controlled Clinical Trials** – Ingrid Hopper, Alfred Hospital, p41
1430 – 1500	**From dyngoes to dynasores: Selective dynamin inhibitors as novel antiepileptic agents** – Adam McCluskey, The University of Newcastle	1415 – 1430	**In vitro protein binding of lorazepam, oxazepam and temazepam with adult ageing** – Paul Chin, Christchurch Hospital, p78
1500 – 1530	**Exploiting nature's diversity to discover allosteric drugs** – Richard Lewis, The University of Queensland, p214	1430 – 1445	**Variable pharmacokinetics of meropenem and piperacillin in patients with critical illness and renal failure** – Darren Roberts, St Vincent's Hosptial, p96
1530 – 1600	**Structure based drug design for complex GPCR targets; Studies on Relaxin Family Peptide Receptors** – Ross Bathgate, University of Melbourne, p209	1445 – 1500	**Neutrophil gelatinase-associated lipocalin (NGAL) and cystatin C in acute unwell general medical inpatients** – Peter Donovan, Royal Brisbane and Women's Hospital, p160
		1500 – 1515	**Population pharmacokinetics of paracetamol in overdose in a single patient** – Joel Iedema, Princess Alexandra Hospital, p85
		1515 – 1530	**Calcium channel blocker poisoning: evaluation of risk factors, predictors of severity and treatment of presentations to an inpatient toxicology centre** – Trevor Mallard, Calvary Mater Newcastle, p168
		1530 – 1545	**Teaching Junior Medical Officers safe and effective prescribing** – Robyn McCarthy, Royal North Shore Hospital, p30
		1545 – 1600	**Open Discussion**
1600 – 1630	**Afternoon Tea** ROOM: Grand Lobby		
1630 – 1730	**Plenary Lecturer** – Julio Licinio, The John Curtin School of Medical Research CHAIR: John Miners ROOM: Grand 5 & 6		
17.30 – 19.30	**Poster Session and Welcome Drinks** ROOM: Grand Lobby		

POSTER PRESENTATIONS

DRUG DISCOVERY

A behavioural study assessing spatial memory deficits in the APP/PS1 double transgenic mouse model of Alzheimer's disease using the Morris water maze – Stephen Edwards, The University of Queensland, p10

Alternative splicing of spca1 in breast cancer cell lines – Mariam Rizk, University of Queensland, p17

2'-methoxy-6-methylflavone: a novel allosteric activator of α4β1/2/3 GABAA receptors – Nasiara Karim, The University of Sydney, p23

3-oh-2'-methoxy-6-methylflavone: an allosteric modulator of synaptic while activator of extrasynaptic gabaa receptors – Nasiara Karim, The University of Sydney, p24

Transcriptional Up-Regulation Of Human Udp Glucuronosyltransferase (Ugt) 2b15 And 2b17 By Dihydrotestosterone And Its Metabolites In Breast Cancer Mcf-7 Cells – Dong Gui Hu, Flinders University, p29

IP3R-binding protein released with IP3 (irbit) in breast cancer cell lines – Aisyah Jahidin, The University of Queensland, p31

Investigate the species difference caffeine effect on TRPA1 ion channel – Liuqiong Gu, University of Melbourne, p38

Assessment of plasma membrane calcium atpase 1 sirna-mediated inhibition in MDA-MB-231 breast cancer cells – Merril Curry, The University of Queensland, p54

Stimulus-bias at the relaxin family peptide receptor 3 (RXFP3) – Martina Kocan, Monash University, p90

Autocrine annexin-1 activates formyl peptide receptors to increase breast tumour cell proliferation in response to serum, estradiol and epidermal growth factor – Thippadey Khau, University of Melbourne, p93

Moonlighting enzymes: can kinases also contain guanylate cyclase activity? – Lubna Freihat, Monash, p98

Long-lasting effects of early-life stress on GABA-A receptors – Tina Hinton, The University of Sydney, p102

Predicting 5-HT1A receptor affinity of 1-adrenoceptor ligands – Timothy Nicholas, UNSW, p128

The role of PNU-120596, a selective positive allosteric modulator of the α7 nicotinic acetylcholine receptor in inflammation – Aileen Wu, University of Sydney, p134

Pathway-dependent allosteric modulation of the calcium sensing receptor – Anna Davey, Monash University, p136

The effects of abt-089 and analogues on stoichiometric combinations of RAT 4β2 nAChR – Taima Qudah, Sydney University, 151

Affinity and selectivity of diquinoline compounds at adrenoceptors and 5-HT_{1A} receptor – Junli Chen, University of New South Wales, p152

Modulation of ligand binding to the 1b adrenoceptor: a potential role for the second extracellular loop – Adrian Campbell, University of New South Wales, p163

Structure-function studies of the human extracellular calcium-sensing receptor – Chongkai Wen, Monash Institute of Pharmaceutical Sciences, p178

Novel allosteric modultors and hybrid orthosteric/allosteric ligands of the adenosine a1 receptor – Emilia Savage, Monash University, p181

DRUG DISCOVERY *(continued)*

DRUG DISPOSITION

GASTRO-UROGENITAL

INFLAMMATION/RESPIRATORY

Monday 29th November

0820 – 0830	**Official Welcome** – Professor Kathie Knights, Immediate Past President, ASCEPT ROOM: Grand 5 & 6
0830 – 0930	**ASCEPT Plenary Lecturer** – Professor Felix Bochner CHAIR: Kathie Knights ROOM: Grand 5 & 6
0930 – 1030	**Plenary Speaker** – British Pharmacological Society
	Professor Simon Maxwell, Clinical Pharmacology, University of Edinburgh, Scotland CHAIR: Kathie Knights ROOM: Grand 5 & 6
1030 – 1100	**Morning Tea** ROOM: Grand Lobby

POSTER PRESENTATIONS

CARDIOVASCULAR

Hydrogen sulphide relaxes middle cerebral arteries in rats – Eloise Streeter, RMIT University, p14
Endothelial protective effects of boldine in streptozotocin-induced diabetic rat: free radical scavenging activities and inhibition of protein kinase C – Yeh Siang Lau, University of Malaya, p34
Effect of carpobrotus rossii ('pigface") ingestion on blood pressure, body and organ weight, blood lipids, haematological profile and in vitro vascular responses in rats – Dominic Geraghty, University of Tasmania, p36
Resistin can act in the brain to influence cardiovascular regulation – Samin Kosari, RMIT University, p61
TRPC3 channels facilitate KCA-mediated endothelial signaling in rat mesenteric artery – Sevvandi Senadheera, University of New South Wales, p72
Are the cardiac effects of nitroxyl (HNO) preserved in a high glucose setting in neonatal rat cardiomyocytes (NRCM)? – Shreeleka Rao, University of Melbourne, p92
Effects of omega-3 fatty acids and proinflammatory mediators on superoxide generation and nitric oxide synthase (eNOS) expression in quiescent human umbilical vein endothelial cells (HUVECs) – Karina Hamilton, University of the Sunshine Coast, p110
Nitroxyl (HNO) suppresses superoxide generation by nadph-oxidase in the cerebral vasculature – Kate Maxwell, Monash University, p112
Effects of omega-3 fatty acid supplementation on Weibel-Palade body degranulation in human endothelial cells – Corinna Burgin, University of the Sunshine Coast, p122
A reduced capacity to exercise is associated with cardiac remodelling in rats – Marissa Bowden, Baker IDI Heart and Diabetes Institute, p133
Endothelial cationic amino acid transporter 1 (CAT-1) overexpression protects against diabetes-induced cardiac dysfunction in mice – Makhala Khammy, The University of Melbourne, p140
The effects of serum, ischemia and adenosine receptor activation on erk phosphorylation in a cardiac cell line model – Ruchi Kanojia, Monash University, p157
Contribution of transmembrane domain V amino acids to β_{1}-adrenoceptor activity and affinity – Paul Klenowski, Queensland University of Technology, p170
Macrophages in the vascular wall of hypertensive mice are 'alternatively' activated and derived from circulating LY6CHI monocytes – Jeffrey Moore, Monash University, p182
Zoledronic acid increases eNOS expression and improves endothelial function – Oguzhan Yildiz, Gulhane School of Medicine, Ankara, Turkey, p3
Heart rate variability more sensitive than cortisol to exam stress in students – Sara Vafaeiafraz, The University of Sydney, p20
Diet-induced obesity alters vasodilator mechanisms in the rat middle-cerebral artery – Lauren Howitt, UNSW, p86
The sphingosine 1-phosphate mimetic, FTY720, suppresses superoxide generation and elicits nitric oxide-dependent dilatation in the cerebral circulation – Jacqueline Ku, Monash University, p99
Effect of glycated human serum albumin on BKCa-mediated responses in rat and human small arteries – Matthew Rikard-Bell, UNSW, p120
Correction of abnormal fenestrations in the diabetic liver with 3,3',5,5'-tetra-t-butyl-biphenyl-4,4'-diol, a novel antioxidant compound – Aisling McMahon, ANZAC Research Institute, p162
Do connexins 37, 40 and 43 play a role in endothelial dysfunction in cremaster arteries from type-2 diabetic rats? – Marshan Youssef, RMIT University, p180
Olfactory receptor systems in the heart – Simon Foster, University of Queensland, p197
Vasorelaxant and anti-aggregatory actions of nitroxyl (HNO) are preserved, yet those to nitric oxide (NO) compromised, in hypercholesterolemic mice – Michelle Bullen, Monash University, p116
MyD88-dependent signaling following stroke – Catherine Downes, Melbourne University, p126

CLINICAL

The effect of allopurinol on thiopurine metabolite concentrations in patients with inflammatory bowel disease – Tegan Asser, University of South Australia, p28
Local anaesthetic infused at the incision site for post-operative pain management following abdominal surgery – Ray Morris, The Queen Elizabeth Hospital, p33
Drug burden index (DBI) associated with function in older people living in Finland – Danijela Gnjidic, University of Sydney and Royal North Shore Hospital, p45
Development of a population pharmacokinetic (POPPK) model to describe the variability in metformin pharmacokinetics – Shaun Kumar, St Vincent's Hospital, p55
Optimising the management of gout with allopurinol – Diluk Kannangara, St Vincent's Hospital, p57
Multimodal CNS pharmacodynamics with the neurocart using lorazepam as a probe drug – Nur Yasmin Ayub, University of Adelaide, p73
A comparison of suspected paracetamol toxicity in young and old patients at a Sydney hospital over 18 months – Alice Kane, University of Sydney/Royal North Shore Hospital, p101
Presentation of sepsis and gentamicin dosing in young and old hospital inpatients – Claire Johnston, University of Sydney/Royal North Shore Hospital, p109
The impact of frailty on gentamicin pharmacokinetics in septic older inpatients – Claire Johnston, University of Sydney/Royal North Shore Hospital, p113
Development of an LC-MS/MS method suitable for tacrolimus quantification in tissue – Benjamin Noll, The Queen Elizabeth Hospital, p144
Intra-renal cyclosporine concentrations in kidney transplant recipients experiencing rejection or other graft dysfunction – Benedetta Sallustio, The Queen Elizabeth Hospital, p158
The acute effects of naltrexone on the psychomotor effect of alcohol in healthy volunteers – Nur Yasmin Ayub, University of Adelaide, p171
Comparison of one vs two blood samples for determination of tobramycin AUC in children with cystic fibrosis – Ross Norris, Mater Health Services, p190
Blood collection technique for pharmacokinetic studies of doxorubicin in paediatric patients – Michael Lobb, Mater Health Services, p196
Short-term exposure of patients with chronic renal impairment to metformin – Janna Duong, University of New South Wales, p8
Drug burden index (DBI) and mortality in Australian veteran population – Danijela Gnjidic, University of Sydney and Royal North Shore Hospital, p117
Assessment of cytochrome P450 inactivation efficacy as a predictor of pharmacokinetic drug-drug interactions – Kyra Barnes, Flinders University, p25
The assay of melatonin in saliva by high-performance liquid chromatography-tandem mass spectrometry – Sohil Khan, The University of Queensland, p194
Pulmonary fibroblasts from patients with COPD have a senescent secretory phenotype – Lian Wu, University of Auckland, p211
Drug burden index (DBI) and beers criteria: impact on function in older people living in self-care retirement villages – Danijela Gnjidic, University of Sydney and Royal North Shore Hospital, p47
Opioid analgesia, tolerance and withdrawal: contributions of innate immune signalling and sex – Mark Hutchinson, University of Adelaide, p60
Patients' perceptions of generic medications – Suong N T Ngo, The University of Adelaide, p166

PHARMACOGENOMICS

Mechanistic contribution of toll-like receptors and microglia towards alcohol effects and alcohol-opioid interactions – Yue Wu, University of Adelaide, p18
Counter regulation of morphine and oxycodone analgesia: a TLR4 map kinase mediated phenomenon? – Jacob Thomas, University of Adelaide, p56
Identification of transcription factors regulating UDP-glycosyltransferase 3A1 and 3A2 gene expression – Alex Haines, Flinders University, p95
Microarray analysis of global gene expression as a tool to identify potential drug targets for the treatment of werner syndrome. Studies in a mouse model – Dmitri Svistounov, ANZAC Research Institute, p193

TOXICOLOGY

Transcriptome profiling of acute acrolein pneumotoxicity in mice – Philip Burcham, University of Western Australia, p46
Illicit stimulant use in adelaide monitored by wastewater analysis – Chang Chen, University of Adelaide, p51
Effect of paracetamol toxicity on kupffer cell numbers in perfused livers of young male fischer 344 rats – Alice Kane, University of Sydney/Royal North Shore Hospital, p103
The impact of poloxamer 407 (P407) on the ultrastructure of the liver and evidence for clearance by extensive endothelial and kupffer cell endocytosis – Alessandra Warren, University of Sydney, p192
The expression of NRF2 and CYP2E1 in paracetamol induced hepatoxicity of fischer 344 rats – John Mach, Royal North Shore Hospital, p164
Cytotoxic and apoptosis induction of Malaysian marine endophytic fungi – Siti Alwani Ariffin, Otago University of Wellington, p165
Prior acute acrolein exposure accelerates the onset of pulmonary inflammation in influenza a infected mice – Ferrer Ong, University of Western Australia, p187
Solving the 'brown snake paradox': an in vitro comparison of the activity of snake presynaptic neurotoxins – Carmel Barber, Monash University, p71

EDUCATION

Is non-attendance at lectures indicative of lack of engagement of students with their studies? – Elizabeth Davis, Monash University, p19
Ensuring quality graduates of pharmacology: a survey of Australian students – Lynette Fernandes, University of Western Australia, p129
e-Pharmacology: An on-line resource for medical students – Eva Patak, Monash University, p141
Ensuring quality graduates of pharmacology: an Australian survey of pharmacology teaching – Tina Hinton, The University of Sydney, p143
Assessing student preconceptions and misconceptions of therapeutic pharmacology topics as an engagement and teaching strategy – Joanne Hart, RMIT University, p179

GASTRO-UROGENITAL

Physiological concentrations of iron alter the motility of the guinea pig jejunum – Kej Wang, University of New South Wales, p130

1100 – 1300	**Current Challenges Facing Pharmacogenomics** CHAIR: Janet Coller, Andrew Somogyi ROOM: Grand 5 & 6	1100 – 1300	**Immunopharmacology in Diseases of the Cardiovascular, Respiratory & Central Nervous System** CHAIR: Grant Drummond ROOM: Grand 3 & 4
1100 – 1130	**Next gen sequencing analysis challenges** – David Adelson, University of Adelaide	1100 – 1130	**The role of T-cells and the adpative immune response in hypertension** – David Harrison, Emory University, USA
11.30 – 1200	**Translation of pharmacogenetic testing into clinical practice- National and international perspectives** – Andrew Somogyi, University of Adelaide, p203	1130 – 1200	**Targeting chemoattractant receptors for anti-inflammatory therapy** – Charles Mackay, Monash University, p200
1200 – 1225	**The pharmas and the cowboys should be friends** – Jennifer Martin & John Duley, University of Queensland, p198	1200– 1220	**Inflammation and immune mechanisms of brain damage after stroke** – Chris Sobey, Monash University, p204
1225 – 1300	**Panel Discussion**	1220 – 1240	**Chemokine receptor antagonism in the treatment of autoimmune disease of the CNS** – Iain Comerford, University of Adelaide, p210
		1240 – 1300	**Novel pharmacological strategies for the treatment of COPD** – Ross Vlahos, University of Melbourne, p202
1300 – 1400	**Lunch and Poster Presentations** ROOM: Grand Lobby		
1300 – 1400	**Pharmacology SIG** ROOM: Grand 3		
1400 – 1600	**Oral Presentations 1** CHAIR: Matt Doogue ROOM: Grand 5 & 6	1400 – 1600	**Oral Presentations 2** CHAIR: Greg Monteith ROOM: Grand 3 & 4
1400 – 1415	**BICEPP: a computational text mining method for predicting binary characteristics of drugs** – Frank Lin, University of New South Wales, p40	1400 – 1415	**Basic fibroblast growth factor inhibits airway small muscle cell acquisition of a myofibroblast phenotype** – Alastair Stewart, University of Melbourne, p114
1415 – 1430	**Estimation of lean body weight in older black and white men and women: the health, aging and body composition study** – Sarah Mitchell, Royal North Shore Hospital and The Univeristy of Sydney, p207	1415 – 1430	**Absence of development of learned helplessness and C-FOS expression in P2X7 receptor knockout mice when repeatedly tested in the forced swim test** – Aurelie Boucher, University of Sydney, p63
1430 – 1445	**Total and free clearance of R- and S-warfarin in elderly people** – Berit P. Jensen, University of Otago, p76	1430 – 1445	**Transient receptor potential vanilloid 1 (TRPV1) in naïve and THP-1 monocytes: role in cytokine release** – Dale Kunde, University of Tasmania, p111
1445 – 1500	**The PD and PK of single dose R-warfarin and S-warfarin when administered alone and in combination as a function of VKORC1 genotype in healthy volunteers** – John Maddison, Royal Adelaide Hospital, p159	1445 – 1500	**Autocrine annexin-1 activates formyl peptide receptors to increase breast tumour cell proliferation in response to serum, estradiol and epidermal growth factor** – Thippadey Khau, University of Melbourne, p93
1500 – 1515	**Short-term exposure of patients with chronic renal impairment to metformin** – Janna Doung, University of New South Wales, p8	1500 – 1515	**An animal model of gene-environment interactions in schizophrenia** – Jonathon Arnold, University of Sydney, p100
1515 – 1530	**Effects of changing from oral to subcutaneous administration of methotrexate on RBC MTX polyglutamate concentrations and disease activity in patients with rheumatoid arthritis** – Murray Barclay, Christchurch Hospital, p79	1515 – 1530	**A non-peptidic oxytocin receptor agonist as a novel therapeutic lead for the treatment of anxiety** – William Jorgensen, The University of Sydney, p80
1530 – 1545	**Plasma oxypurinol concentrations in patients with allopurinol-induced stevens johnson syndrome — case series** – Hugo Lee, St Vincent's Hospital, p49	1530 – 1545	**Investigating the role of binding site cooperativity in mediating functional effects at the translocator protein** – Alana Scarf, University of Sydney, p65
1545 – 1600	**Assessing the adverse effects caused by oral anticancer drug capecitabine** – Hamed Shahnam, Flinders Medical Centre, p70	1545 – 1600	**A versatile microglia-neuron co-culture system for the identification of anti-inflammatory and neuroprotective drugs – application to screening of natural compounds** – Gerald Muench, UWS, p167
1600 – 1630	**Afternoon Tea & Poster Presentations** ROOM: Grand Lobby		
1630 – 1830	**Denis Wade J & J Plenary Session** CHAIR: Barbara Kemp-Harper ROOM: Grand 5 & 6		
1630 – 1700	**The development of atherosclerosis and hypertension: the role of vascular arginase** – Karen Andrews, Baker IDI Heart and Diabetes Institute, p155		
1700 – 1730	**A pre-assembled G-protein-coupled receptor signalosome with sensitivity to sub-picomolar concentrations of relaxin** – Michelle Halls, University of Cambridge, p74		

1730 – 1800	**Characterisation of a novel neuropeptide/GPCR system in brain: relaxin-3/RXFP3 signalling modulates septohippocampal theta rhythm and spatial memory** – Sherie Ma, Florey Neurosciences Institute and Austin Health, p217		
1800 – 1830	**Characterisation of dorsal root ganglion neuron populations activated by ciguatoxin** – Irina Vetter, University of Queensland, p123		
1830 – 1930	**Drug Discovery SIG** ROOM: Grand 2		

Tuesday 30th November

0830 – 1030	**So Much to Teach… So Little Time** CHAIR: Elizabeth Davis ROOM: Grand 5 & 6	0830 – 1030	**Antivenom Treatment: Efficacy Versus Effectiveness, the New and Improving the Old** CHAIR: Geoff Isbister ROOM: Grand 3 & 4
0830 – 0850	**And what were the best aspects of your course?** – Ieva Stupans, University of New England	0830 – 0855	**New approaches to improve and old therapy – Snake antivenom** – Robert Harrison, Liverpool School of Tropical Medicine, UK
0850 – 0910	**Feedback on student performance** – Emilio Badoer, RMIT University	0855 – 0920	**Investigating the efficacy of antivenom therapy with in vitro and animal studies** – Wayne Hodgson, Monash University, p206
0910 – 0930	**Bringing practice to practicals: Placing and assessing undergraduate students on primary research** – Jeff Schwartz, Griffith University, p191	0920 – 0945	**Using mechanistic models and simulations to understand snake bite coagulopathy and the effectiveness of antivenom** – Stephen Duffull, University of Otago, NZ
0930 – 1000	**Debate: So much to teach/learn… So little time… So no time for pracs** – Julianne Reid, RMIT University, Michael Lew, University of Melbourne, Dominic Geraghty, University of Tasmania, Enis Kocak, Monash University, Benjamin Harvey, University of Adelaide, Brad Watmuff, Monash University	0945 – 1010	**Developing a rational approach to antivenom therapy** – Geoff Isbister, Newcastle Mater Hospital
1000 – 1030	**Panel Discussion**	1010 – 1030	**Panel Discussion**
1030 – 1100	**Morning Tea** ROOM: Grand Lobby		
1030 – 1100	**Cardiovascular SIG** ROOM: Grand 5 & 6		
1100 – 1300	**Oral Presentations 3** CHAIR: Alyson Miller ROOM: Grand 5 & 6	1100 – 1300	**Oral Presentations 4** CHAIR: Carl Kirkpatrick, Ian Musgrave ROOM: Grand 3 & 4
1100 – 1115	**Hypoxic preconditioning enhances survival of human adipose-derived stem cells for tissue engineering** – Samantha Stubbs, The University of Melbourne, p154	1100 – 1115	**Comparison of predicted dose versus actual dose using three different pharmacogenomic algorithms in a case-control study of 483 patients on long term warfarin therapy** – Leslie Sheffield, Murdoch Childrens Research Institute, p184
1115 – 1130	**Chronic kidney disease-induced cardiac fibrosis is ameliorated by reducing circulating levels of a non-dialysable uremic toxin, indoxyl sulfate** – Suree Lekawanvijit, Monash University, p173	1115 – 1130	**Relationship between immunogenetics and risk of drug dependence** – Janet Coller, University of Adelaide, p43
1130 – 1145	**Generation of a novel antagonist of the human protease-activated receptor-4 uncovers a role for this receptor in the platelet procoagulant response** – Justin Hamilton, Monash University, p48	1130 – 1145	**TPMT genotyping results from a clinical pharmacogenetics service to assist azathioprine dosage initiation: the first 500 patients** – Andrew Somogyi, University of Adelaide, p161
1145 – 1200	**Excessive superoxide production and endothelial dysfunction in cerebral arteries following transient cerebral ischaemia are due to enhanced activity of NOX2-containing nadph-oxidase** – Alyson Miller, Monash University, p97	1145 – 1200	**Structure toxicity studies of drugs implicated in immune-mediated idiosyncratic hepatotoxicity** – Samuel Ho, The University of Sydney, p53
1200 – 1215	**Hydrogen sulfide elicits vasoprotection by scavenging superoxide anions and inhibiting vascular NADPH oxidase** – Joanne Hart, RMIT University, p84	1200 – 1215	**Human health risk assessment of dioxin contamination in a pesticide** – Edward Cram, Department of Health and Ageing, p183
1215 – 1230	**Effect of a CXCR2 antagonist on brain inflammation and infarct volume after stroke in mice** – Vanessa Brait, Monash University, p59	1215 – 1230	**The effects of chironex fleckeri crude venom extract on isolated cardiac and vascular tissues** – Richard Hughes, The University of Melbourne, p138
1230 – 1245	**G protein-coupled estrogen receptor signalling in the brain worsens stroke outcome in males but protects in females** – Brad Broughton, Monash University, p147	1230 – 1245	**Optimising Gentamicin use in a tertiary hospital setting** – Jennifer Martin, UQ, p177
1245 – 1300	**Anti-inflammatory peptide annexin-a1 (ANX-A1) postconditions cardiac function in the intact rodent heart subjected to ischaemia-reperfusion (I-R) injury** – Rebecca Ritchie, Baker IDI Heart & Diabetes Institute, p145	1245 – 1300	**Outcomes in patients with gram negative sepsis treated with gentamicin** – Peter Pillans, Princess Alexandra Hospital, p83
1300 – 1400	**Lunch and Poster Presentations** ROOM: Grand Lobby		
1300 – 1400	**Gastro-Urogenital SIG** ROOM: Grand 3		
1300 – 1400	**Education SIG** ROOM: Grand 2		
1400 – 1600	**ASCEPT Oral Session** CHAIR: Barb Kemp Harper ROOM: Grand 5 & 6		
1400 – 1415	**Vasorelaxant and anti-aggregatory actions of nitroxyl (HNO) are preserved, yet those to nitric oxide (NO.) compromised, in hypercholesterolemic mice** – Michelle Bullen, Monash University, p116		
1415 – 1430	**Growth factor-mediated changes in purinergic receptor signaling in breast cancer cells** – Felicity Davis, The University of Queensland, p9		
1430 – 1445	**MyD88-dependent signalling following stroke** – Catherine Downes, Melbourne University, p126		
1445 – 1500	**Drug Burden Index (DBI) and mortality in Australian Veteran Population** – Danijela Gnjidic, University of Sydney and Royal North Shore Hospital, p117		
1500 – 1515	**Differential expression of ATP7A, ATP7B and CTR1 in adult rat dorsal root ganglion tissue** – Virgina Ip, University of Auckland, p88		
1515 – 1530	**Investigating the role of the low density lipoprotein class A (LDLA) module in mediating activation of the relaxin family receptor (RXFP) 1 and RXFP2** – Roy Chze Khai Kong, Howard Florey Institute, p75		
1530 – 1545	**Age-related loss of fenestrations impairs hepatic uptake of the water soluble substrate paracetamol** – Sarah Mitchell, Royal North Shore Hospital and University of Sydney, p15		
1545 – 1600	**CYP1A2 activity in south asians and Europeans** – Vidya Perera, The University of Sydney, p32		
1600 – 1630	**Afternoon Tea** ROOM: Grand Lobby		
1630 – 1830	**ASCEPT Annual General Meeting** ROOM: Grand 5 & 6		
1930	**Conference Dinner, Sebel Ballroom**		

Wednesday 1st December

0730 – 0830	**Breakfast** ROOM: Grand Lobby		
0830 – 1030	**Medication Safety: Innovations** CHAIR: Ric Day, Johanna Westbrook ROOM: Grand 5 & 6	0830 – 1030	**Oral Presentations 5** CHAIR: Tom Polasek, Betty Exintaris ROOM: Grand 3 & 4
0830 – 0855	**As you like it** – Mukesh Haikerwal, National E-Health Transition Authority	0830 – 0845	**Protein kinase C regulates the internalization and function of the human organic anion tranpsoring polypeptide** – Fanfan Zhou, The University of Sydney, p2
0855 – 0915	**Mindlines: Sources of medication errors** – William Runciman, University of South Australia	0845 – 0900	**Inhibition of proliferation and migration of COX-2-overexpressing breast cancer cells by synthetic omega-3 monounsaturated fatty acids** – Pei Cui, University of Sydney, p44
0915 – 0935	**Trials and tribulations of implementing electronic medication management systems** – Ric Day, University of New South Wales, p224	0900 – 0915	**Dimeric complexes containing the leucine zipper factors c-JUN and MafG activate transcription of the human CYP2J2 epoxygenase gene** – Michael Murray, University of Sydney, p81
0935 – 0955	**The impact of electronic medication management systems on prescribing errors in hospitals** – Johanna Westbrook, The University of Sydney, p189	0915 – 0930	**Prediction of paclitaxel clearance from in vitro kinetic data** – Tom Polasek, Flinders University, p21
0955 – 1015	**The impact of computerised decision support on selecting medicines for prescription** – Melissa Baysari, University of New South Wales, p205	0930 – 0945	**Neurotransmitters regulating tone of the internal anal sphincter** – Natasha Hausman, Bond University, p89
		0945 – 1000	**Adrenoceptor subtypes regulating urothelial spontaneous contraction** – Christian Moro, Bond University, p107
1015 – 1030	**Panel Discussion**	1000 – 1015	**Investigation of receptors and mediator release in the porcine bladder mucosa – a role for tachykinins and other endogenous agonists?** – Elizabeth Burcher, University of New South Wales, p150
		1015 – 1030	**Acid and acid-sensitive receptors in the porcine urinary bladder** – Felicity Kao, University of New South Wales, p156
1030 – 1100	**Morning Tea** ROOM: Grand Lobby		
1100 – 1200	**Plenary Speaker** – British Toxicological Society Prof Timothy Gant, Medical Research Council Toxicology Unit and Reader in Genetics, University of Leicester, UK CHAIR: David Le Couteur ROOM: Grand 5 & 6		
1200 – 1230	**Prize Giving and Conference Close** CHAIR: David Le Couteur ROOM: Grand 5 & 6		

Conference Venue and Registration

All sessions will be held at The Sebel Albert Park, Level One. Phone: + 61 3 9529 4300 Fax: + 61 3 9521 3111

The Registration Desk will be located on Level One in the Grand Lobby. The desk is open as follows:

Sunday November 28: 0900 – 0730
Monday November 29: 0730 – 1830
Tuesday November 30: 0730 – 1830
Wednesday December 1: 0730 – 1230

Internet access is via wireless only. Wireless access cards can be purchased from the Sebel Main Reception Desk. A Business Centre is also available for delegate use, please see the Sebel Main Reception for further details.

Speakers

Speakers are asked to load their presentations no later than ONE hour before their session begins in the Speakers Preparation Room. Presentations must be provided on a USB (memory stick), with the file in a Power Point PC format. Please note that there will be NO time to swap computers over between presentations.

Poster Presentations

Posters presenters are requested to be in attendance on either Sunday evening (1730 – 1930) or on Monday at morning tea, lunch and afternoon tea (1030 – 1100; 1300 – 1400; 1600 – 1630) as per their allocated session. Student poster presenters are eligible for either the Percy or Whelan Poster Prizes and should be prepared to provide a two minute synopsis of their posters when requested by judging panels. Following poster presentations on Sunday & Monday, students will be shortlisted for the Percy & Whelan Prizes and finalists will be asked to present their poster again on Tuesday (1300 – 1400) in a dedicated Prize Judging Session.

Social Program

The Welcome Drinks and Poster Presentations will be held at The Sebel Albert Park on Level One in the Exhibition Area on Sunday November 28 from 1730 – 1930.

The Conference Dinner will be held at The Sebel Albert Park in the Sebel Grand Ballroom, Level One, on Tuesday November 30 from 1930.

Parking

Parking is available at The Sebel Albert Park. Conveniently located beneath the hotel and accessible via Lorne Street, Mirvac's car park has 400 parking bays for your convenience. At the time of writing the rate is $16.00 per vehicle flat rate per day. However, please note parking rates are subject to change without notification. There is one further car park in close proximity to the hotel to ensure ample space is available. Please note the ceiling height of the car park is 2.1m on level one, and 1.9m on level two.

Public Transport:

Trams travel down St Kilda Rd (numbers 3, 5, 6, 16, 64 and 67). Tram stop 27 is the closest to The Sebel Albert Park Melbourne and is a short walk down Lorne Street to the hotel. The closest train stations to the hotel are Prahran and Flinders Street. For further information on public transport, please log on to www.victrip.com.au

General Information

Mobile phones, pagers: In the interests of courtesy to speakers and other delegates, please switch off these devices during sessions or switch them to vibration mode.

Dress code: Dress for the conference sessions and Annual Dinner is informal (smart casual).

Daily notices/messages: All information on changes to the program and other items of interest to participants will be posted daily on a notice board at the Registration Desk. Delegates should check the noticeboard regularly for incoming messages and faxes.

Disclaimer: The organising committee reserves the right to make program changes if deemed necessary.

Name badges: Conference delegates are requested to wear their name badges to all conference activities.

No Liability: In the event of any disruption or event leading to losses or added expense being incurred in respect of the conference, there shall be no liability attached to ASCEPT or the Conference Organisers.

Privacy: Any information relevant to your attendance at the conference will be shared and used between ASCEPT and the conference organisers for the purposes of this conference. A list of delegates will be made available to conference delegates and sponsors.

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CONFERENCE LINKS AND EVENT MANAGEMENT SERVICES

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