School of Pharmacy
Te Kura Matauraka Wai-whakaora

SCHOOL REPORT 2015
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Staff as at December 2015

Professor and Dean
Stephen Duffull, DipPharm (CIT) MPharm(Clin) PhD (Otago) RegPharmNZ FNZCP MPS

Professors
Sarah Hook, BSc(Hons) PhD (Otago) ASI NZFSS
Pauline Norris, BA MA (Cant) PhD (Well)
Ian Tucker, BPharm(Hons) PhD (Qld) FNZCP FCRS RegPharmNZ MPS

Associate Professors
Rhiannon Braund, BSc BPharm PhD (Otago) FNZCP RegPharmNZ MPS
Natalie Medlicott, BPharm PhD (Otago) RegPharmNZ MPS
Joel Tyndall, BSc(Hons) (Monash) PhD (Qld)

Senior Lecturers
Shyamal Das, MPharm (B’lore) PhD (Monash)
James Green, BA(Hons) PhD (Otago)
Susan Heydon, BA(Hons) DHMSA (London) MA PhD (Otago) DHMSA
Arlene McDowell, BSc(Hons) MSc (Melb) PhD (Otago)
Prasad Nishtala, MPharm PhD GradDipClinPharm (Sydney) AACPA
Dorothy Saville, BPharm(Hons) MSc PhD (Syd)
Alesha Smith, BSc MSc (Otago) PhD (UQ)
June Tordoff, BPharm(Hons) MPharm (Brad) PhD (Otago) MRPharmS RegPharmNZ MPS
Greg Walker, MSc PhD (Otago)

Lecturers
Hesham Al-Sallami, BPharm PGDipClinPharm MClinPharm (Otago) ANZCP RegPharmNZ MPS
Allan Gamble, BMedChemAdv PhD GCertBus (W’gong)
Shakila Rizwan, BPharm, PhD (Otago)
Andrea Vernall, BSc (Hons) PhD (Cant)
Dan Wright, BScPharm (Dal) MA (Brist) MSc PhD (Otago) RegPharmNZ

Senior Teaching Fellow
David Schmierer, BAppSci (Swinburne) MAACB CChem MRACI MRSC

Professional Practice Fellows
Kate Farquharson, BPharm GDipBHL (Otago) RegPharmNZ MPS
John Fraser, BSc (Otago) RegPharmNZ MPS
Nicola Hewson, BPharm (Otago) RegPharmNZ MPS
Lisa Kremer, BPharm (Otago) PGDipClinPharm (Otago) RegPharmNZ MPS
Anita Olivier, DipPharm (Natal) PGCertTertT (Otago) RegPharmNZ MPS
Aynsley Peterson, BPharm PGCertPharm (Otago) RegPharmNZ MPS
James Windle, DipPharm (CIT) DipBusAdmin MBS (Massey) BPharm MClinPharm PGCertTertT (Otago) AFAiPM MNZCP RegPharmNZ MPS
David Woods, BSc(Hons) (Manch) MPharm (Otago) MPS
Research Staff
Biju Balakrishnan, BVSc AH (Kerala Ag) MVSc (IVRI) PhD (Auck)
Olaf Bork, DiplIng DrIng (Bremen)
Jasper Chiu, BPharm, PhD (Otago)
Sara de la Harpe
Rohit Jain, MSc (Greenwich), PhD (Otago)
Hu Zhang, MB (Bengbu) MD (Anhui) PhD (Otago)

Administrative Staff
Amanda Abraham MHealSci (Otago)
Denise Botting
Kathy Ferguson, DipPol
Lisa Head
Jane McAuslan, BCom (MANT) NZCE (Civil)
Vicky McLeod, Nat Cert Pharm Tech
Rewa Pene
Christine Price
Gwen Slote, BA (Washington)
Sarah Wilson

Technical Staff
Michael Broughton, MSc (Otago)
Julie Harwood, NDS
Tim Campbell, BSc (Information Science) (Otago)
Kevin Crump, BSc (Otago)
Pummy Krittaphol, BSc(Hons) RPharm (Rangsit) MSc (Mahidol) PGDip MSc PhD (Otago)
Joanne Preston, NZCS BSc (Massey)
Lisa Reid, Cert Disp Tech
Len Stevenson, NZCS PGCertHSci (Otago)
Brian Young, NZCE

Contracted Teaching Staff
Linda Bryant, BPharm MClInPharm (Otago) PhD (Auck) MPS
Bevan Clayton-Smith, BPharm MClInPharm (Otago) RegPharmNZ MPS
Keith Crump, DipPharm (CIT) RegPharmNZ
Alison Davies, DipPharm (CIT) DipHospPharm (Syd) MMEdSci (Newcastle)
John Dunlop, PGDipPharm MPharm (Otago) FACPP MCPP FNZCP MRPharm DPharm (Auck) MPS
Sunita Goyal, BSc DipPharm MClInPharm (Otago) MPS
Adele Print, BPharm MClInPharm (Otago)

Honorary Professors
David Jones, BSc (Hons Pharmacy)(Queens Belfast) PhD (Pharmaceutics)(Queens Belfast)
DSc (Queens Belfast)
John Murphy, PharmD (Florida) FCCP FCP
Thomas Rades, BSc(Pharm) (Hamburg) PhD (Braunschweig)
Clare Strachan, BPharm PhD (Otago)
# Teaching Programme

## Bachelor of Pharmacy Degree (BPharm) 2015

**Associate Dean, Academic:** Associate Professor Natalie Medlicott  
**Director, Admissions:** Dr June Tordoff  
**Director, Undergraduate Programmes:** Dr Arlene McDowell  
**Student Support Coordinator:** Dr Shakila Rizwan  
**Student Support Coordinator:** Dr Allan Gamble

### First Year (Common Health Sciences First Year)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
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<tbody>
<tr>
<td>BIOC192</td>
<td>Foundations of Biochemistry</td>
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<tr>
<td>CELS191</td>
<td>Cell and Molecular Biology</td>
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<tr>
<td>CHEM191</td>
<td>The Chemical Basis of Biology and Human Health</td>
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<td>HEAL192</td>
<td>Foundations of Epidemiology</td>
<td>18</td>
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<tr>
<td>HUBS191</td>
<td>Human Body Systems 1</td>
<td>18</td>
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<tr>
<td>HUBS192</td>
<td>Human Body Systems 2</td>
<td>18</td>
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<tr>
<td>PHSI191</td>
<td>Biological Physics</td>
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### Second Year

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<tr>
<th>Course Code</th>
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<th>Credit Points</th>
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<tbody>
<tr>
<td>PHCY219</td>
<td>Microbiology and Immunology (for BPharm)</td>
<td>12</td>
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<tr>
<td></td>
<td><em>Dr Judith Bateup (Microbiology)</em></td>
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<tr>
<td>PHCY231</td>
<td>Biochemistry (for BPharm)</td>
<td>7</td>
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<tr>
<td></td>
<td><em>Dr Alan Carne (Biochemistry)</em></td>
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<tr>
<td>PHCY251</td>
<td>Physiology (for BPharm)</td>
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<td><em>Associate Professor Phil Sheard (Physiology)</em></td>
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<tr>
<td>PHCY254</td>
<td>Physical Pharmacy A</td>
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<tr>
<td></td>
<td><em>Dr Shakila Rizwan</em></td>
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<tr>
<td>PHCY255</td>
<td>Physical Pharmacy B</td>
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<td><em>Dr Greg Walker</em></td>
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<tr>
<td>PHCY256</td>
<td>Biopharmaceutical Chemistry</td>
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<tr>
<td></td>
<td><em>Mr David Schmierer</em></td>
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<tr>
<td>PHCY258</td>
<td>Introduction to Drug Action</td>
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<td><em>Associate Professor Joel Tyndall</em></td>
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<tr>
<td>PHCY259</td>
<td>Quality of Medicines</td>
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<td></td>
<td><em>Dr Allan Gamble</em></td>
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<tr>
<td>PHCY263</td>
<td>Principles of Pharmacy Practice</td>
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<td><em>Dr Susan Heydon</em></td>
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### Third Year

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<tr>
<td>PHCY315</td>
<td>Human Disease</td>
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<td><em>Ms Catherine Ronayne (Pathology)</em></td>
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<tr>
<td>PHCY340</td>
<td>Essentials of Drug Action</td>
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<td></td>
<td><em>Dr Gregory Giles (Pharmacology &amp; Toxicology)</em></td>
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<tr>
<td>PHCY342</td>
<td>Drug Delivery Systems</td>
<td>12</td>
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<td></td>
<td><em>Dr Arlene McDowell</em></td>
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<tr>
<td>PHCY343</td>
<td>Drug Disposition and Pharmacokinetics</td>
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</table>
Dr Dorothy Saville
PHCY344  Professional Pharmacy Practice A
  Dr James Green
PHCY345  Quality Use of Medicines A (modules), Mr David Schmierer
  Gastrointestinal Disorders, Dr June Tordoff
  Infectious Diseases, Professor Sarah Hook
  Respiratory Disorders, Professor Stephen Duffull
  Endocrine Disorders, Mr David Schmierer
  Cardiovascular, Dr Andrea Vernall
PHCY346  Professional Pharmacy Practice B
  Mr James Windle

Fourth Year

PHCY470  Elective Study
  Mr David Schmierer
  Credit Points: 12

PHCY471  Quality Use of Medicines B (modules), Dr Hesham Al-Sallami
  Oncology & the Immunocompromised patient, Professor Sarah Hook
  Reproduction, Associate Professor Rhiannon Braund
  Musculoskeletal, Dr Hesham Al-Sallami
  Credit Points: 46

PHCY472  Professional Pharmacy Practice C
  Dr Susan Heydon
  Credit Points: 16

PHCY473  Quality Use of Medicines C (modules), Dr Prasad Nishtala
  Central Nervous System Disorders, Dr Prasad Nishtala
  Dermatology, Mrs Anita Olivier
  Haematology, Dr Hesham Al-Sallami
  Special Populations, Associate Professor Natalie Medlicott
  Medicines Management, Ms Aynsley Peterson
  Credit Points: 46

Bachelor of Pharmacy Honours Degree (BPharm Hons) 2015

Programme Co-ordinator: Dr Shyamal Das

Fourth Year

PHCY480  Honours Research Project
  Dr Shyamal Das
  Credit Points: 36

PHCY481  Quality Use of Medicines B (modules), Dr Hesham Al-Sallami
  Oncology & the Immunocompromised patient, Professor Sarah Hook
  Reproduction, Associate Professor Rhiannon Braund
  Musculoskeletal, Dr Hesham Al-Sallami
  Credit Points: 46

PHCY482  Professional Pharmacy Practice C
  Dr Susan Heydon
  Credit Points: 16

PHCY483  Quality Use of Medicines C (modules), Dr Prasad Nishtala
  Central Nervous System Disorders, Dr Prasad Nishtala
  Dermatology, Mrs Anita Olivier
  Haematology, Dr Hesham Al-Sallami
  Special Populations, Associate Professor Natalie Medlicott
  Medicines Management, Ms Aynsley Peterson
  Credit Points: 46
Postgraduate Professional Programmes

Director, Postgraduate Professional Programmes: Dr Dan Wright

Master of Clinical Pharmacy (MClinPharm)
The degree may be achieved either:
by passing PHCY506 and PHCY512, and submitting a research dissertation (PHCY590) OR
by passing PHCY506 and submitting a thesis (PHCY5A) having previously passed PHCY512.

Credit Points
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<td>PHCY506</td>
<td>Research Methods</td>
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<td>PHCY512</td>
<td>Advanced Clinical Pharmacy</td>
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<td>PHCY590</td>
<td>Dissertation</td>
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<td>Professor Pauline Norris</td>
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<tr>
<td>PHCY5A</td>
<td>Thesis</td>
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<td>Professor Pauline Norris</td>
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Postgraduate Diploma in Clinical Pharmacy (PGDipClinPharm)
The diploma may be achieved by passing any four of PHCY522, PHCY523, PHCY524, PHCY541, PHCY542; or by passing PHCY512, PHCY525, PHCY541, PHCY542.

Credit Points
<table>
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<th>Course Code</th>
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<tr>
<td>PHCY522</td>
<td>Applied Clinical Pharmacy 1</td>
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<td>Dr Linda Bryant</td>
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<td>PHCY523</td>
<td>Applied Clinical Pharmacy 2</td>
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<td>Professor John Murphy</td>
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<td>PHCY524</td>
<td>Pharmacoeconomics and Drug Evaluation</td>
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<td>Ms Alison Davies</td>
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<td>PHCY525</td>
<td>Core Clinical Pharmacy</td>
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<td>Dr Linda Bryant/ Professor John Murphy</td>
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<td>PHCY541</td>
<td>Medicines Information</td>
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<td>Mr David Woods</td>
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<td>PHCY542</td>
<td>Medicines Management</td>
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<td>Dr Dan Wright</td>
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<tr>
<td>PHCY547</td>
<td>Medicines and Culture</td>
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<td>Dr Susan Heydon</td>
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<td>PHCY548</td>
<td>Pharmaceutical Policy</td>
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<td>Professor Pauline Norris</td>
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Postgraduate Certificate in Pharmacy (PGCertPharm)
The programme shall consist of an approved paper or papers to the value of 60 points, which must be as specified in the schedule of endorsed options if the certificate is to be endorsed in an area of specialisation.

Credit Points
<table>
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<tr>
<th>Endorsed Option</th>
<th>Course Title (PGCertPharm MEMA)</th>
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<tbody>
<tr>
<td>PHCY541</td>
<td>Medicines Management (PGCertPharm MEMA)</td>
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<td>Medicines Information</td>
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<td></td>
<td>Mr David Woods</td>
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</table>
Any one of the above two papers or one other paper to the value of 30 points

Postgraduate Certificate in Pharmacist Prescribing (PGCertPharmPresc)
This programme shall consist of papers PHCY601 Principles of Prescribing and PHCY602 Prescribing Practicum, both papers have a value of 30 points each, a total of 60 points for the programme. This programme may be completed after a student gains the PGDipClinPharm.

<table>
<thead>
<tr>
<th>Credit Points</th>
<th>PHCY601</th>
<th>Principles of Prescribing</th>
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<tr>
<td></td>
<td>PHCY602</td>
<td>Prescribing Practicum</td>
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</tbody>
</table>

Ms Adele Print
Research-Based Degree Programmes

Associate Dean, Research | Professor Sarah Hook

Doctor of Philosophy (PhD)
The degree of Doctor of Philosophy is awarded on the basis of the submission of a thesis. The thesis should give evidence of the candidate's ability to carry out research, that the candidate has shown originality and independence, and that the candidate has made a significant contribution to knowledge in the particular field. It is expected that some of the work in the thesis would be worthy of publication. The research should be of a kind which a diligent and competent student might reasonably be expected to complete within three years of full-time study.

Master of Pharmacy (MPharm)
The degree may be awarded in any area of Pharmacy.
The degree may be achieved by passing PHCY501-504, and submitting a thesis (PHCY5). In place of one of the papers PHCY501-504, candidates may take either PHCY506 or any two of HASC411, HASC412 and HASC413.

Postgraduate Diploma in Pharmacy (PGDipPharm)
The degree may be awarded in any area of Pharmacy.

<table>
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<th>Credit Points</th>
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<td>PHCY501 Elective Studies</td>
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<td>PHCY502 Elective Studies</td>
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<tr>
<td>PHCY503 Elective Studies</td>
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<td>PHCY504 Elective Studies</td>
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Postgraduate Certificate in Pharmacy (PGCertPharm)
A non-endorsed option has been undertaken by graduate students who complete a 60-point research dissertation for the award of PGCertPharm.

<table>
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<tr>
<th>Credit Points</th>
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<tr>
<td>PHCY590 Dissertation</td>
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Enrolments in 2015

Undergraduate

2015
Year 1 not applicable*
Year 2 134
Year 3 145
Year 4 152
*selection into the BPharm programme occurs at the end of the first year

Postgraduate
Programmes Student Numbers
Postgraduate Certificate in Pharmacy
   Medicines Management 43
   Research 3
   Social Pharmacy 3
   Pharmacist Prescribing 3
Postgraduate Diploma in Clinical Pharmacy 22
Postgraduate Diploma in Pharmacy* 0
Master of Clinical Pharmacy 2
Master of Pharmacy* 1
PhD 45
*currently not enrolling students into these programmes
Prizes and Awards for 2015

Undergraduate

FOURTH YEAR
Kit Yue (Jamie) Chan - Christina White prize (Student with best overall achievement in the BPharm degree overall)
Liang Kooi Kok - Pharmaceutical Society of New Zealand prize
Liang Kooi Kok - NZHPA Clinical pharmacy prize
Rebecca Lovelock - Pharmacy Defence Association prize
Rebecca Lovelock - Douglas Pharmaceuticals Pharmacy Practice Fourth Year prize
Rebecca Lovelock - Thomson Reuters Pharmacy prize

THIRD YEAR
Helen Lee - Pharmaceutical Society of New Zealand prize
Abbey Evison – Ken Campbell Memorial prize in pharmacy practice
Abbey Evison – Douglas Pharmaceuticals Pharmacy Practice Third Year prize
Natalie Fleming – NZ Hospital Pharmacists’ Association – Syd Little Memorial prize
Helen Lee – Otago Pharmacological Association prize

SECOND YEAR
Paula Sutton – TOniq prize
Ramon Wong – NZ Controlled Release Society Pharmaceutics prize
Priyanki Gandhi – Pharmacy Guild of NZ Inc. Pharmacy Practice prize
Ramon Wong – UBS Pharmaceutical Chemistry prize

Postgraduate
PGCertPharm (MEMA)
Ashleigh Eaden – Best overall grade

PGDipClinPharm
Anna Stevenson – Best overall grade

PHCY512 Advanced Clinical Pharmacy
Nil – Best overall grade
Graduates in 2015

Doctor of Philosophy

Hesham Al-Sallami
Title: Optimising patient care by individualising drug dosage
Supervisor: Prof. Stephen Duffull, Assoc Prof. Natalie Medlicott

Piyanan (Jill) Assawasuwannakit
Title: Understanding and quantifying adherence and its link to therapeutic success
Supervisor: Assoc. Prof. Rhiannon Braund, Prof. Stephen Duffull

Sharan Bobbala
Title: Novel injectable thermoresponsive hydrogels for sustained release vaccines
Supervisor: Prof. Sarah Hook, Dr Arlene McDowell

Jasper Chiu
Title: Designing oligoarginine-associated PECA nanoparticles for enhanced cellular uptake
Supervisor: Dr Arlene McDowell, Prof. Ian Tucker, Dr Bernie McLeod

Paulina Guzman
Title: Studying the physical stability of BSA at the bulk solution and oil/water interface
Supervisor: Assoc. Prof. Natalie Medlicott, Dr Stefania Baldursdottir, Prof. Thomas Rades, Dr Lene Jorgensen

Pei Ting (May) Mah
Title: Novel aspects for the analysis and optimisation of amorphous formulations
Supervisor: Assoc. Prof. Clare Strachan, Prof. Thomas Rades, Prof. Keith Gordon

Silke Neumann
Title: Long peptide vaccines for the treatment of melanoma
Supervisor: Prof. Sarah Hook, Prof. Thomas Rades, Prof. Rod Dunbar, Dr Roslyn Kemp

Vittal Shivva
Title: Pharmacometric methods in clinical pharmacology: an application to ketones
Supervisor: Prof. Stephen Duffull, Prof. Ian Tucker

Farrukh Zeeshan
Title: Protein structure in solid lipid matrices intended for potential dosage forms
Supervisor: Assoc. Prof. Natalie Medlicott, Dr Lene Jorgenson

Postgraduate Certificate in Pharmacy (no endorsement) (PGCertPharm)
Richard PRENTICE
Amber YOUNG
Master of Clinical Pharmacy (MClInPharm)
Nil

Postgraduate Diploma in Pharmacy (PGDipPharm)
Nil

Postgraduate Diploma in Clinical Pharmacy (PGDipClinPharm)
Calum ANDERSON with distinction
Lauren ASSINK with distinction
Katherine BOULTON
Julia BROOKS with distinction
Huijun (June) CHEN with credit
Mara COLER with distinction
Gail COWLES with distinction
Katie DAVIS with distinction
Rebecca DEAN with distinction
Lena ESTRIN with distinction
Claire FRASER with distinction
Kate GRIFFIN with credit
Mohammed ISSA with distinction
Tess JAMES with distinction
Tsz (Wendy) LEE with distinction
Ho Che (Arthur) LIU with credit
Samuel LOEVENDIE with distinction
Chanelle OWEN with distinction
Benny PAN with credit
Dian PHONE with distinction
Charity PNG with distinction
Jessica RICKARD with distinction
Vidhya SRITHARAN with credit
Anna STEVENSON with distinction
Brendon STEWART with credit
Michael TAYLOR with credit
Rebecca WRIGHT with distinction
Jenny WU with distinction
Sharon YANG with distinction
Sharyn YOUNG with distinction

Postgraduate Certificate in Pharmacy (endorsed in Medicines Management) (PGCertPharm MEMA)
Mena A-DAIM
Megan ADIE
Riani ALBERTYN
Kasey BROWN
Sarah BUSHBY
Amanda COOK
Sasha DOBIE
Ashleigh EADEN
Steven FOWKE
Stella FULTON
Sarah GRANT
Michael HAMMOND
Rachel HOOKER
Mayoorathy JEWARY
Jennifer JONES
Shiu Wei KAN
Jun Hee KANG
Karen KENNEDY
Na Eun (Emilia) KIM
Catherine LI
George MANSOUR
Caroline MARTIN
Julia McDONALD
Mary MESSEHA
Lye Finn NG
Shawei (Sacha) OUYANG
Ji Hyun (Jessy) PARK
Megan PETERS
Anna PRIVETT
Rebekah REARDON
Natascha ROUGHTON
Wilson SHEN
Vanessa (Brown) SMITH
Claire THROWER
Peggy TING
Stuart WALKER
Seung Kwon (James) YU

Postgraduate Certificate in Pharmacy (endorsed in Social Pharmacy)
(PGCertPharm SOPH)
Ka Ying (Mirabelle) AU
Katie ROSS

Postgraduate Certificate in Pharmacist Prescribing (PGCertPharm Presc)
Penny CLARK
## Research Statistics

**Publications**

- Authored Book – Research: 0
- Chapter in Book: 3
- Edited Book – Textbook & Other: 1
- Journal – Research Articles: 77
- Journal – Research Other: 6
- Journal – Professional & Non-Research: 0
- Conference Contributions:
  - Published Proceedings and Poster Presentations: 7
  - Verbal Presentation & Other Outputs: 35

**Grant Funding (approximately)**

- Research GST *exclusive*: $834,225
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<tr>
<th>Principal Investigators</th>
<th>Title of Project</th>
<th>Funder</th>
<th>Value</th>
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<tbody>
<tr>
<td>Greg Walker</td>
<td>Nano-Webs for plant protection</td>
<td>Agmardt</td>
<td>$23,000</td>
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<tr>
<td>Pauline Norris</td>
<td>Living well with mild cognitive impairments</td>
<td>Brain Research NZ</td>
<td>34,423</td>
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<tr>
<td>Alesha Smith</td>
<td>Integrating patient data to optimise medicines and reduce polypharmacy</td>
<td>Health Research Council</td>
<td>178,273</td>
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<tr>
<td>Shyamal Das</td>
<td>Formulation of anti-tuberculosis drugs for high dose pulmonary delivery</td>
<td>Health Research Council</td>
<td>143,767</td>
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<tr>
<td>Shakila Rizwan</td>
<td>The nose knows the way: An intranasal approach to treat drug-resistant epilepsy</td>
<td>Health Research Council</td>
<td>137,636</td>
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<tr>
<td>Andrea Vernall</td>
<td>Integrated preparative high pressure liquid chromatography (prep-HPLC) system</td>
<td>NZ Lottery Grant [Equipment grant]</td>
<td>19,179</td>
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<tr>
<td>Prasad Nishtala</td>
<td>Real-World incidence of diabetes and cardiovascular events with antipsychotics</td>
<td>NZ Lottery Grant</td>
<td>50,662</td>
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<tr>
<td>Sarah Hook</td>
<td>Use of the dual COX/LOZ inhibitor licofelone for treatment of cancer</td>
<td>NZ Pharmacy Education &amp; Research Foundation (NZPERF)</td>
<td>3,000</td>
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<tr>
<td>Rhiannon Braund</td>
<td>Sildenafil supply in NZ; who are accessing via pharmacist-only and how does this compare with prescriptions supply</td>
<td>NZ Pharmacy Education &amp; Research Foundation (NZPERF)</td>
<td>5,792</td>
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<td>Rhiannon Braund</td>
<td>Medicines information needs in NZ general practice</td>
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<td>Allan Gamble, Sarah Hook</td>
<td>New approaches to triggered drug delivery with responsive nano-vesicles</td>
<td>NZ Pharmacy Education &amp; Research Foundation (NZPERF)</td>
<td>10,950</td>
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<td>Greg Walker, Roland Broadbent</td>
<td>A new omeprazole formulation designed for paediatric patients</td>
<td>NZ Pharmacy Education &amp; Research Foundation (NZPERF)</td>
<td>7,110</td>
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<td>Natalie Medlicott, Roland Broadbent</td>
<td>Aldosterone and diuretic treatment in pre-term neonates</td>
<td>NZ Pharmacy Education &amp; Research Foundation (NZPERF)</td>
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<tr>
<td>Name</td>
<td>Project Description</td>
<td>Institution</td>
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<td>Sarah Hook</td>
<td>Use of the dual COX/LOX inhibitor licofelone for treatment of cancer</td>
<td>Otago Medical Research Foundation</td>
<td>11,484</td>
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<td>Shyamal Das</td>
<td>Can powders for inhalation which are made by spray-drying be stabilised? Development of a physically stable high dose powder for inhalation for lung infections by spray-drying</td>
<td>University of Otago Research Grant</td>
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<td>Allan Gamble</td>
<td>Prodrug strategies for treating cognitive decline and Alzheimer’s Disease</td>
<td>University of Otago Research Grant</td>
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<td>Joel Tyndall</td>
<td>Development of future drugs for chlamydia targeting HtrA using structure based drug design</td>
<td>University of Otago Research Grant</td>
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<td>Andrea Vernall</td>
<td>Development of fluorescent ligands for the cannabinoid type two receptor</td>
<td>University of Otago Research Grant</td>
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<tr>
<td>Dan Wright</td>
<td>Towards a revised dosing strategy for metformin in patients with impaired kidney function</td>
<td>University of Otago Research Grant</td>
<td>35,165</td>
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</tbody>
</table>

**TOTAL GRANTS**  $834,225
Current PhD Students

As at 31 December 2015

Ayodeji Agbowuro, “Design, synthesis and optimisation of chlamydia trachomatis protease inhibitors”, with Associate Professor Joel Tyndall, Dr Allan Gamble

Nagham Ailabouni, “De-prescribing: discontinuation of unnecessary medicines in frail older people in New Zealand”, with Dr Prasad Nishtala, Associate Professor Derelie Mangin (General Practice)

Hanisah Azhari, “Modified cubosomes for drug delivery to the brain”, with Dr Shakila Rizwan, Professor Sarah Hook, Professor Ben Boyd (Monash)

Chloe Campbell, “The optimal use of medicines: information needs of New Zealand health professionals”, with Associate Professor Rhiannon Braund, Dr Caroline Morris (Primary Health Care & General Practice)

Anna Cooper, “Development of fluorescent ligands for the type 2 cannabinoid receptors”, with Dr Andrea Vernall, Professor Sarah Hook, Associate Professor Joel Tyndall

Sumit Dadhwal, “Polymersomes: a contemporary method of targeted drug delivery against cancer”, with Dr Allan Gamble, Professor Sarah Hook

Basanth Eedera, “Inhalable lipid-drug micro-particles for treatment of pulmonary tuberculosis”, with Dr Shyamal Das, Professor Ian Tucker

Jessica Fairhall, “Bioorthogonal prodrug activation for targeted chemotherapy”, with Dr Allan Gamble, Professor Sarah Hook

Feifei Feng, “Delivering drugs through the blood brain barrier”, with Professor Ian Tucker, Associate Professor Paul Fawcett

Bhuvan K.C., “Medicines, tourism and healthcare: an investigation into a pharmacist led travel health service and improved access to medicines in Western Nepal”, with Dr Susan Heydon, Professor Pauline Norris

Kan Kaneko, “Development and characterization of oral alpha-galactosylceramide liposomal formulation for use in atopy”, with Professor Sarah Hook, Dr Arlene McDowell

Under Examination

Shirley Keown, “Prescription medicines use among Maori in Gisborne: equity and access”, with Professor Pauline Norris, and Dr Simon Horsburgh (Preventive & Social Medicine)

Kathrin Kramer, “Bio-conjugate approaches for improved adjuvant vaccines”, with Dr Greg Walker, and Dr Sarah Young (Anatomy)
Eeva-Katri Kumpula, “Investigating emergency department (ED) presentations for intentional self-poisoning”, with Prof. Pauline Norris, Dr Shyamala Nada-Raja (Preventive & Social Medicine)

Arnold Lee, “pH sensitive materials for the delivery of vaccines from the endosome to the cytoplasm, with Professor Sarah Hook, Dr Allan Gamble

Andrew McLaughlin, “Development of controlled release devices for the local delivery of drugs to the brain for the treatment of stroke”, with Dr Greg Walker, and Dr Andrew Clarkson (Anatomy)

Siddharth Matikonda, “Tumour targeted prodrugs”, with Dr Allan Gamble, Professor Sarah Hook

Shamin Mohd Saffian, “The dose individualization of oral anticoagulants”, with Dr Dan Wright, Professor Stephen Duffull, Dr Paul Chin (Christchurch School of Medicine)

Mohammad Momin, “Spray-dried powder particles containing single or combination of drugs for treating multidrug resistant tuberculosis”, with Dr Shyamal Das, Professor Ian Tucker

Younus Mohammad, “Endogenous lipid carriers for drug delivery to the brain”, with Dr Shakila Rizwan, Dr Andrew Clarkson (Anatomy), Professor Ben Boyd (Monash)

Himang Mujoo, “Use of bilosomes to deliver drugs across the blood brain barrier”, with Professor Ian Tucker, Associate Professor John Reynolds (Anatomy) – Under examination

Patti Napier, “Investigation of the potential of advanced roles for New Zealand pharmacy technicians”, with Associate Professor Rhiannon Braund, Professor Pauline Norris

Sujita Narayan, “Pharmacoepidemiological approaches to examine preventive medicines and multimorbidity in older people”, with Dr Prasad Nishtala, Dr June Tordoff

Henry Ndukwe, “Utilisation of psychotropic medicines in older people in New Zealand: a pharmacoepidemiological approach”, with Dr Prasad Nishtala, Dr June Tordoff, and Dr Ting Wang (Maths & Statistics)

Qing Xi Ooi, “Effects of vitamin K and fresh frozen plasma on reversal of warfarin overdose”, with Prof. Stephen Duffull, Dr Dan Wright, Associate Professor Geoff Isbister (University of Newcastle)

Shan Pan, “Development of a population PKPD model for methotrexate and methotrexate polyglutamates in red blood cells”, with Professor Stephen Duffull, Professor Lisa Stamp (Medicine), Dr Julia Korell (Model Answers) – Under examination

Noni (Allison) Richards, “Understanding antiepileptic medicine exposure in pregnancy”, with Dr Alesha Smith, Associate Professor David Reith, Associate Professor Mike Stitely (both of Women’s and Children’s Health)
Mohammed Salahudeen, “Anticholinergic indices for commonly prescribed medicines”, with Dr Prasad Nishtala, Professor Stephen Duffull – Under examination

Emma Salis, “Insulin pharmacokinetics and pharmacodynamics (PKPD) in paediatrics and neonates”, with Associate Professor Natalie Medlicott, Associate Professor David Reith (SDHB)

Bryan Simpson, “Personalised medicine through information technology (PerMIT)”, with Dr Alesha Smith, Associate Professor David Reith (Children’s and Women’s Health), Associate Professor Natalie Medlicott

Sameek Singh, “Development of fluorescent ligands for the cannabinoid receptors”, with Dr Andrea Vernall, Associate Professor Joel Tyndall

Vijay Siripuram, “Understanding azathioprine metabolism using a systems pharmacology approach”, with Professor Stephen Duffull, Professor Murray Barclay (Medicine), Dr Dan Wright

Vanda Symon, “Fact and fiction: Communicating science through the crime fiction of Ngaio Marsh”, with Associate Professor Natalie Medlicott, Dr Susan Heydon, Professor Warwick Duncan (Oral Sciences)

Thi Hong Hanh Vu, “Preparation and evaluation of oral nanoformulations for the antioxidant rutin”, with Dr Arlene McDowell, Professor Sarah Hook

Anna Widayanti, “Health-seeking behavior of Indonesian communities”, with Professor Pauline Norris, Dr Sue Heydon, Dr James Green

James Windle, “Learning and assessment connections occurring between the undergraduate years of the Otago BPharm degree and pre-registration internship, a longitudinal study”, with Professor Ian Tucker, Professor Jeffrey Smith (University College of Education), and Professor Rachel Spronken-Smith (HEDC)

Sasi Yarragudi, “Mucoadhesive microparticulate drug delivery system for nose-to-brain delivery”, with Dr Shakila Rizwan, Dr Andrew Clarkson (Anatomy), Dr Greg Walker

Bettina Zadehvakili, “Design, synthesis and structure-activity relationships of some novel glutathione peroxidase mimics”, with Dr Gregory Giles (Pharmacology), Associate Professor Paul Fawcett
BPharm Honours Programme

The School re-introduced its Bachelor of Pharmacy Honours (BPharm (Hons)) Programme for the 2015 academic year, with Honours’ students beginning their research project (PHCY480) in early November 2014.

All together 33 students from third year of the undergraduate pharmacy programme applied for entry to the Honour’s programme. Students are selected based upon their GPA up to and including first semester P3, research experience and interest perceived by their cover letter and student-teacher interviews, and the availability of preferred research projects. 11 places were offered in the programme. Although the minimum allowable entry grade is a GPA of B+, most students who entered the programme have a minimum GPA of A.

All students received scholarships to cover the 10-week research period over the summer between years 3 and 4 (PHCY480). The School is grateful for financial support from a range of funders as shown below.

Although students are also eligible to join the programme and self-fund their living expenses over this period, this year there were sufficient scholarships to cover available projects. Ultimately places were limited by the number of available projects.

**Honours Students 2015**

**Philip Arnold**  
Project: The chemical synthesis and secondary structure of hemopressin analogues as cannabinoid receptor antagonists.  
Supervised by Dr Andrea Vernall  
Sponsored by Fred Fastier Trust

**Jamie (Kit Yue) Chan**  
Project: Cationic role of resident mast cells in ischemia reperfusion induced (IRI) kidney injury.  
Supervised by Dr Vishal Diwan  
Sponsored by Fred Fastier Trust

**Lily Chen**  
Project: High dose drug delivery to the lung by engineering drug powders using spray drying technique  
Supervised by Dr Shyamal Das  
Sponsored by Douglas Pharmaceuticals

**Nalini Ganaeswaren**  
Project: Drug delivery to the lung - the influence of lung surfactants on dissolution of drugs.  
Supervised by Dr Shyamal Das  
Sponsored by Fred Fastier Trust
Yen Qi Hew  
Project: Optimised formulations of indomethacin.  
Supervised by Dr Dorothy Saville  
Sponsored by the Christina White Trust  

Ha-Lam Jeong  
Project: Medicines use amongst people with diabetes  
Supervised by Prof. Pauline Norris and Dr Alesha Smith  
Sponsored by NZPERF  

Liang Kooi Kok  
Project: Enzyme inhibitors from cabbage as drugs for inflammatory disease.  
Supervised by Assoc. Prof. Joel Tyndall and Dr Allan Gamble  
Sponsored by Fred Fastier Trust  

Isabelle Kuan  
Project: Model-based estimation of glomerular filtration rate  
Supervised by Dr Dan Wright and Prof. Steve Duffull  
Sponsored by NZPERF  

Catherine Ross  
Project: pH responsive delivery of vaccines  
Supervised by Prof. Sarah Hook  
Sponsored by the School of Pharmacy  

Wei Kiet Tey  
Project: Interaction of surface modified nano-carriers with immortalized human endothelial cells  
Supervised by Dr Shakila Rizwan  
Sponsored by School of Pharmacy Research Committee  

Fang Juinn Yu  
Project: Optimising the use of vitamin D supplementation in pregnant women and their infants  
Supervised by Mr Hesham Al-Sallami  
Sponsored by NZPERF
Publications – Journal

Di – Journal, Research Article


amino acid substitution (P370L) in the cthrA gene shows reduced elementary body production. *BMC Microbiology, 15*, 194 (2015)


*Staphylococcus aureus*, *Streptococcus uberis* and *Str. dysgalactiae* from New Zealand and the USA as assessed by the disk diffusion test. *Australian Veterinary Journal*, 93(7), 227-233 (2015)


Saffian, S.M., Zhang, M., Chin, P.K.L., Jensen, B.P. Quantification of dabigatran and indirect quantification of dabigatran acylglucuronides in human plasma by LC-MS/MS. *Bioanalysis*, 7(8), 957-966 (2015)


Conference Presentations

**E1 - CONFERENCE CONTRIBUTION – PUBLISHED PROCEEDINGS: FULL ABSTRACT**


**E2 - CONFERENCE CONTRIBUTION – PUBLISHED PROCEEDINGS: ABSTRACT**


Campbell, C., Braund, R., Morris, C. Optimal delivery of information regarding medicines at the point of care. In J. Young (Ed.), *Proceedings of the Annual General Practice and


Ergler, C. R., Green, J., Guiney, T. Tertiary students’ wellbeing in a neoliberal climate: Coping with exam times. *Proceedings of the Public Health Association Conference.* Dunedin, NZ, 7-9 September, 2015


Green, J., Gauchet, A., Zerhouni, O. Using the affect misattribution procedure to measure attitudes towards conventional and herbal medicines and adherence. *Abstracts of the 29th Conference of the European Health Psychology Society.* Limassol, Cyprus, 1-5 September, 2015


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**E4 - Conference Contribution – Poster Presentation**

Azhari, H., Hook, S., Boyd, B.J., Rizwan, S.B. *Zebrafish can be used to determine permeability of nanoparticles across the blood-brain barrier in vivo*. Poster session presented at the 11th International Conference on Cerebral Vascular Biology, Paris, France, 6-9 July, 2015


Medlicott, N., Thomas, L., Broadbent, R., Reith, D. *Slow infusions of gentamicin are associated with high variability in peak gentamicin concentrations in low gestation age (GA) neonates*. Poster session presented at the 15th Biennial European Society for
Developmental, Perinatal and Paediatric Pharmacology (ESDPPP) Congress, Belgrade, Serbia, 23-26 June, 2015


E5 - CONFERENCE CONTRIBUTION – VERBAL PRESENTATION


Kuan, I.H.S., Wright, D.F.B., Putt, T.L., Walker, R.J., Duffull, S.B. Are conventional methods for measuring isotopic GFR really the gold standard? Verbal presentation at the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists New Zealand Section (ASCEPT-NZ) Annual Scientific Meeting, Queenstown, New Zealand, 1-3 September 2015 [Student presentation]


Pan, S., Duffull, S. Automated proper lumping for the simplification of linear systems. Abstracts of the Population Approach Group Australia and New Zealand (PAGANZ) conference, Melbourne, Australia, 28-30 January 2015

Rizwan, S. Nanoparticle technology for drug delivery to the brain. Verbal presentation at the 9th Annual Brain Health Research Centre Conference: Science for a Healthy Brain, Dunedin, New Zealand, 19 June 2015


**Salis, E.R.,** Reith, D.M., Broadbent, R.S., Wheeler, B.J., **Medlicott, N.J.** Extremely premature neonates exhibit insulin resistance. Verbal presentation at the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists New Zealand Section (ASCEPT-NZ) Annual Scientific Meeting, Queenstown, New Zealand, 1-3 September, 2015


**Vernall, A.** Fluorescent probes as drug discovery tools. Auckland GPCR Symposium, Auckland, NZ, 20 February, 2015


**Wright, D.** Building covariate models. Workshop presentation at the 17th Annual Population Approach Group in Australia and New Zealand Meeting (PAGANZ), Melbourne, Australia, 28-30 January, 2015

**Wright, D.** Critical appraisal and discussion. Workshop presentation at the 17th Annual Population Approach Group in Australia and New Zealand Meeting (PAGANZ), Melbourne, Australia, 28-30 January, 2015


Yu, F.J., Milne, T., Knight, J., Grant, C.C., Al-Sallami, H.S. Exploring the influence of patient covariates on the dose-response of vitamin D supplementation in pregnant women and their infants. Verbal presentation at the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists New Zealand Section (ASCEPT-NZ) Annual Scientific Meeting, Queenstown, New Zealand, 1-3 September, 2015 [Student presentation]

Zare, D., Medlicott, N., McGrath, K. M. Surface visco-elasticity of milk protein. Verbal presentation at the Seventh International Conference on Advanced Materials & Nanotechnology (AMN-7), Nelson, New Zealand, 8-12 February, 2015
Conference Attendance

The School is pleased to be able to support staff and postgraduate students to attend national and international conferences. This is essential to ensure that the academic staff are abreast of developments in their field, to allow them to network with potential international collaborators and to provide opportunity to present research data where it can be peer-reviewed and critically assessed.

PhD students are given a grant-in-aid to attend national and international conferences to present their PhD research in second and third years of their programme. Support is also provided by the Division of Health Sciences.

*Not all were financially supported by the School*

<table>
<thead>
<tr>
<th>Name</th>
<th>Conference name</th>
<th>Location</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hesham Al-Sallami</td>
<td>Population Approach Group Australia &amp; New Zealand (PAGANZ)</td>
<td>Melbourne, Australia</td>
<td>28-30 January</td>
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<tr>
<td>Jill Assawasuwannakit</td>
<td>Population Approach Group Australia &amp; New Zealand (PAGANZ)</td>
<td>Melbourne, Australia</td>
<td>28-30 January</td>
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<td>Steve Duffull</td>
<td>Population Approach Group Australia &amp; New Zealand (PAGANZ)</td>
<td>Melbourne, Australia</td>
<td>28-30 January</td>
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<td>Shan Pan</td>
<td>Population Approach Group Australia &amp; New Zealand (PAGANZ)</td>
<td>Melbourne, Australia</td>
<td>28-30 January</td>
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<td>Shamin Mohd Saffian</td>
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<td>Mohammad Salahudeen</td>
<td>Population Approach Group Australia &amp; New Zealand (PAGANZ)</td>
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<td>Vittal Shivva</td>
<td>Population Approach Group Australia &amp; New Zealand (PAGANZ)</td>
<td>Melbourne, Australia</td>
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<td>Melbourne, Australia</td>
<td>28-30 January</td>
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<td>Hanish Azhari</td>
<td>27th National Conference on Microscopy</td>
<td>Dunedin, NZ</td>
<td>2-6 February</td>
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<tr>
<td>Shakila Rizwan</td>
<td>27th National Conference on Microscopy</td>
<td>Dunedin, NZ</td>
<td>2-6 February</td>
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<tr>
<td>Younus Mohammad</td>
<td>27th National Conference on Microscopy</td>
<td>Dunedin, NZ</td>
<td>2-6 February</td>
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<tr>
<td>Sasi Yarragudi</td>
<td>27th National Conference on Microscopy</td>
<td>Dunedin, NZ</td>
<td>2-6 February</td>
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<td>Andrea Vernall</td>
<td>Auckland G protein-coupled receptor symposium</td>
<td>Auckland, NZ</td>
<td>20 February</td>
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<td>Sue Heydon</td>
<td>British Society for the History of Pharmacy</td>
<td>Sunderland, UK</td>
<td>27-29 March</td>
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<td>Shyamal Das</td>
<td>Respiratory Drug Delivery Europe</td>
<td>Nice, France</td>
<td>5-8 May</td>
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<td>Sarah Hook</td>
<td>Immunology 2015 AAI annual meeting</td>
<td>New Orleans, USA</td>
<td>8-12 May</td>
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<tr>
<td>Sarah Hook</td>
<td>Modern Vaccines Adjuvants &amp; Delivery Systems</td>
<td>Leiden, Netherlands</td>
<td>18-20 May</td>
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<tr>
<td>Hesham Al-Sallami</td>
<td>Population Approach Group Europe</td>
<td>Crete, Greece</td>
<td>1-5 June</td>
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<tr>
<td>Steve Duffull</td>
<td>Population Approach Group Europe</td>
<td>Crete, Greece</td>
<td>1-5 June</td>
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<tr>
<td>Shan Pan</td>
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<td>1-5 June</td>
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<tr>
<td>Dan Wright</td>
<td>Population Approach Group Europe</td>
<td>Crete, Greece</td>
<td>1-5 June</td>
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<tr>
<td>Pauline Norris</td>
<td>Nordic Social Pharmacy and Health Services Research conference</td>
<td>Tartu, Estonia</td>
<td>3-5 June</td>
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<tr>
<td>June Tordoff</td>
<td>Nordic Social Pharmacy and Health Services Research conference</td>
<td>Tartu, Estonia</td>
<td>3-5 June</td>
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<tr>
<td>Shakila Rizwan</td>
<td>9th annual Brain Health Research Centre conference: Science for a Health Brain</td>
<td>Dunedin, NZ</td>
<td>19 June</td>
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<tr>
<td>Natalie Medicott</td>
<td>European Society for Developmental, Perinatal and Paediatric Pharmacology Congress</td>
<td>Belgrade, Serbia</td>
<td>23-26 June</td>
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<tr>
<td>Emma Salis</td>
<td>European Society for Developmental, Perinatal and Paediatric Pharmacology Congress</td>
<td>Belgrade, Serbia</td>
<td>23-26 June</td>
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<tr>
<td>Emma Salis</td>
<td>12th Congress of the European Association for Clinical Pharmacology and Therapeutics</td>
<td>Madrid, Spain</td>
<td>27-30 June</td>
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<tr>
<td>Shakila Rizwan</td>
<td>11th International Conference on Cerebral Vascular Biology</td>
<td>Paris, France</td>
<td>5-9 July</td>
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<tr>
<td>Hanisah Azhari</td>
<td>11th International Conference on Cerebral Vascular Biology</td>
<td>Paris, France</td>
<td>5-9 July</td>
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<tr>
<td>Andrew McLaughlin</td>
<td>42nd Annual Meeting &amp; Exposition of the Controlled Release Society</td>
<td>Edinburgh, Scotland</td>
<td>26-29 July</td>
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<tr>
<td>Greg Walker</td>
<td>42nd Annual Meeting &amp; Exposition of the Controlled Release Society</td>
<td>Edinburgh, Scotland</td>
<td>26-29 July</td>
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<tr>
<td>Nagham Ailabouni</td>
<td>New Zealand Hospital Pharmacists' conference</td>
<td>Napier, NZ</td>
<td>28-30 August</td>
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<tr>
<td>Hesham Al-Sallami</td>
<td>New Zealand Hospital Pharmacists' conference</td>
<td>Napier, NZ</td>
<td>28-30 August</td>
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<tr>
<td>Rhiannon Braund</td>
<td>New Zealand Hospital Pharmacists' conference</td>
<td>Napier, NZ</td>
<td>28-30 August</td>
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<tr>
<td>Chloe Campbell</td>
<td>New Zealand Hospital Pharmacists' conference</td>
<td>Napier, NZ</td>
<td>28-30 August</td>
</tr>
<tr>
<td>James Green</td>
<td>European Health Psychology Society Conference</td>
<td>Limassol, Cyprus</td>
<td>1-5 September</td>
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<tr>
<td>Name</td>
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<tr>
<td>Bhuvan KC</td>
<td>9th European Congress on Tropical Medicine &amp; International Health</td>
<td>Basel, Switzerland</td>
<td>6-9 September</td>
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<tr>
<td>Sujita Narayan</td>
<td>Pacific Postgraduate Symposium: Pacific Voices XII</td>
<td>Dunedin, NZ</td>
<td>24 September</td>
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<tr>
<td>Pauline Norris</td>
<td>Pacific Postgraduate Symposium: Pacific Voices XII</td>
<td>Dunedin, NZ</td>
<td>24 September</td>
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<tr>
<td>Vanda Symon</td>
<td>Pacific Postgraduate Symposium: Pacific Voices XII</td>
<td>Dunedin, NZ</td>
<td>24 September</td>
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<tr>
<td>Sarah Hook</td>
<td>Drug Delivery Australia 2015 Conference</td>
<td>Brisbane, Australia</td>
<td>19-20 November</td>
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<tr>
<td>Arlene McDowell</td>
<td>Drug Delivery Australia 2015 Conference</td>
<td>Brisbane, Australia</td>
<td>19-20 November</td>
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<tr>
<td>Ian Tucker</td>
<td>Drug Delivery Australia 2015 Conference</td>
<td>Brisbane, Australia</td>
<td>19-20 November</td>
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<tr>
<td>Ayodiji Agbowuro</td>
<td>D4 = Diagnostic Drug Device Discovery conference 2015</td>
<td>Dunedin, NZ</td>
<td>25-26 November</td>
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<tr>
<td>Allan Gamble</td>
<td>Pacifichem 2015</td>
<td>Hawaii, USA</td>
<td>15-20 December</td>
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<td>Joel Tyndall</td>
<td>Pacifichem 2015</td>
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# Seminars

In addition to Journal Clubs, the School has a weekly Seminar programme.

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<tr>
<th>Date</th>
<th>Speaker</th>
<th>Title of presentation</th>
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<tbody>
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<td>9 February</td>
<td>Dr Greg Walker</td>
<td>Electrospun nanofibers for delivery of protein bioactives</td>
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<tr>
<td>16 February</td>
<td>Jill Assawasuwannakit</td>
<td>Final presentation: Understanding and quantifying adherence and its link to therapeutic success</td>
</tr>
<tr>
<td>2 March</td>
<td>Dr Sarah Baird</td>
<td>Proteases as signalling molecules in cancer development and metastasis</td>
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<tr>
<td>9 March</td>
<td>Assoc. Prof. Jeff Smith &amp; Dr Michelle Coleman</td>
<td>PBRF for academic staff</td>
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<tr>
<td>16 March</td>
<td>Dr Ben Wheeler</td>
<td>Insulin pump-associated adverse events in adults and children with type 1 diabetes mellitus</td>
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<tr>
<td>23 March</td>
<td>Ms Patti Napier</td>
<td>Changing roles in pharmacy</td>
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<tr>
<td>30 March</td>
<td>Dr Pete Jones</td>
<td>The cardiac ryanodine receptor: the cause and cure of arrhythmias?</td>
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<tr>
<td>13 April</td>
<td>Mr Hesham Al-Sallami</td>
<td>Final presentation: The influence of fat-free mass on the dose-response of heparin in children</td>
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<tr>
<td>20 April</td>
<td>Dr Prasad Nishtala</td>
<td>Trends, propensity score matching and comparative safety using real world data</td>
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<tr>
<td>18 May</td>
<td>Dr Joanna Kirman</td>
<td>Deciphering the memory immune response to tuberculosis</td>
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<tr>
<td>8 June</td>
<td>Richard White</td>
<td>Copyright information seminar</td>
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<td>15 June</td>
<td>School of Pharmacy</td>
<td>Competitors: Deji Agbowuro on ‘Design and synthesis of chlamydia trachomatis protease inhibitors’</td>
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<tr>
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<tr>
<td>22 June</td>
<td>Assoc. Prof. John Reynolds</td>
<td>The importance of being timely: emulating the effects of natural neurochemical release</td>
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<td>Dept. of Anatomy, University of Otago</td>
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<tr>
<td>29 June</td>
<td>Dr Alexander Tups</td>
<td>Leptin resistance and hypothalamic inflammation: key to pathogenesis of obesity, diabetes, and Alzheimer</td>
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<td>6 July</td>
<td>Dr Stephen Robertson</td>
<td>Rare syndromes, common biology – A new signalling pathway regulating mammalian neurogenesis</td>
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<td>Women's and Children’s Health, Dunedin School of Medicine</td>
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<tr>
<td>27 July</td>
<td>Ms Jane Astley</td>
<td>The role of an instructional designer</td>
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<tr>
<td>4 August</td>
<td>Sharan Bobbala PhD Candidate</td>
<td>Final presentation: Novel injectable thermoresponsive hydrogels for sustained release vaccines</td>
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<tr>
<td>10 August</td>
<td>Dr Allan Gamble</td>
<td>Prodrug activation strategies for cancer therapy</td>
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<td>17 August</td>
<td>Dr Roland Broadbent</td>
<td>Aldosterone in the extremely premature infant: does it do anything good? Does it do anything bad?</td>
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<td>24 August</td>
<td>Prof. Ben Boyd</td>
<td>Structuring of lipids during digestion – implications for nutrition and drug delivery</td>
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<td>Monash Institute of Pharmaceutical Sciences, Melbourne, Australia</td>
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<tr>
<td>14 September</td>
<td>Prof. Pauline Norris &amp; Chris Higgs</td>
<td>Pacific matters: pharmacy and physiotherapy perspectives</td>
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<td>School of Pharmacy &amp; Dept. of Physiotherapy</td>
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<td>21 September</td>
<td>Assoc. Prof. Ralph Pinnock &amp; Tracy-Lee Fisher</td>
<td>Think aloud to teach and assess clinical reasoning. An interactive module</td>
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<td>Professional Practice Fellow Paediatrics/ Women’s and Children’s Health University of Otago</td>
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<tr>
<td>5 October</td>
<td>Prof. Sue Dovey General Practice and Rural Health Dunedin School of Medicine</td>
<td>A story of the exploration of patient safety in primary care</td>
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<td>12 October</td>
<td>Shan Pan PhD Candidate School of Pharmacy</td>
<td>Final presentation: Application of pharmacometric methods to quantify the effects of methotrexate in rheumatoid arthritis</td>
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<tr>
<td>19 October</td>
<td>Vittal Shivva PhD Candidate School of Pharmacy</td>
<td>Final presentation: Pharmometric methods in clinical pharmacology: an application to ketones</td>
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<tr>
<td>2 November</td>
<td>Anna Cooper, and Sumit Dadhwal PhD Candidates School of Pharmacy</td>
<td>18 month presentation: AC – Development of fluorescent ligands for the type 2 cannabinoid receptor SD – Design and synthesis of block copolymer for the development of tumour-targeted polymersomes</td>
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<td>9 November</td>
<td>Dr Dorothy Saville School of Pharmacy</td>
<td>Grapefruit-medicine interaction – the continuing story</td>
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<td>Prof. Pauline Norris, Mr James Windle, and Margot Skinner</td>
<td>Interprofessional education: a case study in Tairawhiti</td>
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<td>23 November</td>
<td>Momin Mohammad Motalib PhD Candidate School of Pharmacy</td>
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<td>Hannah Vu PhD Candidate School of Pharmacy</td>
<td>18 month presentation: Preparation and elevation of oral nanoformulations containing the antioxidant rutin</td>
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<tr>
<td>7 December</td>
<td>Dr Chris Thompson Senior Lecturer Faculty of Science School of Chemistry Monash University Melbourne, Australia</td>
<td>A recipe for inquiry</td>
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