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Bond Urology Group

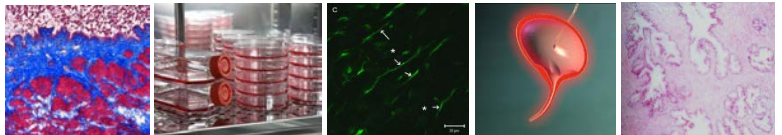
Faculty of Health Sciences and Medicine



OBJECTIVES

To enhance our knowledge of the lower urinary tract with the aim of developing new treatments or enhancing current treatments of the following conditions:

- Neurogenic and idiopathic overactive bladder
- Cancers of the lower urinary tract
- Stress incontinence
- Benign prostatic hyperplasia
- Interstitial cystitis
- Erectile dysfunction



GROUP MEMBERS & INTERESTS

Prof. Russ Chess-Williams (Pharmacologist)

Drug development for overactive bladder, stress incontinence, benign prostatic hyperplasia, erectile dysfunction & bladder carcinoma

Assoc. Prof. Peter Johnson (Pharmacologist)

Actions of drugs and natural products on bladder function

Assist. Prof. Catherine McDermott (Toxicologist)

Actions of cytotoxic drugs and their metabolites on bladder function

Assist. Prof. Anna Salinas (Biochemist)

Molecular modelling of uroplakins

Assoc. Prof. Donna Sellers (Cell Biologist)

Overactive bladder, diabetes

Assoc. Prof. Lotti Tajouri (Molecular Biologist)

Molecular biology of bladder receptors and ion channels

Assist. Prof. Desha Welsh (Physiologist)

Renal & upper urinary tract disease

Prof. Gordon Wright (Clinical Pathologist)

Lower urinary tract pathology particularly urothelial carcinoma

RESEARCH STUDENTS

Stefanie Farr (MSc)

Luke Grundy (PhD)

Sung (Stanley) Kang (PhD)

Kylie Mills (PhD)

Christian Moro (PhD)

Amanda Forbes (PhD)

Oladayo Folasire (PhD)

Helenne Nyamwaro (PhD, UK-based),

Marina Schlueter (PhD, UK-based),

Giselle Cea (Hons), **Kirsty Fuller** (Hons),

Caitlin Milligan (MBBS),

Katrina Smith (BMED), **Iris Lim** (BMED)



PRIZES & AWARDS

- Best Student Presentation, National Symposium on Advances in GU Research - **L. Grundy, 2011**
- Queensland Smart Futures Scholarship - **C. Moro, 2010**
- Best Student Presentation, National Symposium on Advances in GU Research - **C. Moro, 2010**
- RCPA (Royal College of Pathologists of Australasia) Scholarship in Pathology - **C. Milligan, 2009**
- EAU Best Poster Prize, European Association Urology Stockholm - **D. Sellers, 2009**
- Best Scientific Paper published in "European Urology" (IF 8.4) - **D. Sellers, R. Chess-Williams, 2007**

CURRENT RESEARCH FUNDING

- **Cancer Council Queensland**, \$180,000, Chess-Williams, McDermott, Rose Meyer, 2012-2014, "Cytotoxic drugs & urothelial function"
- **NHMRC**, \$434,800, Chess-Williams, Burcher, Moore, Mansfield, 2009-2012, "Non-neuronal ATP: regulation of release and action in the bladder"

COLLABORATORS

- Prof. Liz Burcher (Univ. of New South Wales),
- Prof. Christopher Chapple, (Royal Hallamshire Hospital, Sheffield, UK)
- Dr Shai Anoopkumar-Dukie, Dr Gary Grant, Prof. Andrew Davey (Griffith Univ.)
- Prof. Dave Grundy (Univ. of Sheffield, UK)
- Dr Karen Kerr (Univ. of Newcastle)
- Assoc. Prof. Kate Moore (St George's Hospital, Sydney)
- Assist. Prof. Kylie Mansfield (Univ. of Wollongong)
- Dr Neil McKay, Dr Kim Lawson (Sheffield Hallam Univ., UK)
- Dr Roselyn Rose Meyer, Dr Helen Massa (Griffith Univ.)
- Prof. Mark Schembri (Univ. of Queensland)

SELECTED PUBLICATIONS

- **McDermott C, Chess-Williams R, Grant GD, Perkins AV, McFarland AJ, Davey AK, Anoopkumar-Dukie S.** (2012) *Effects of Pseudomonas aeruginosa virulence factor pyocyanin on human urothelial cell function and viability.* **J. Urol.** 2012 187(3):1087-93.
- **Sellers DJ, Chess-Williams R.** (2012) *Muscarinic agonists and antagonists: effects on the urinary bladder.* **Handb. Exp. Pharmacol.** 208:375-400
- **Moro C, Leeds C, Chess-Williams R.** (2012) *Contractile activity of the bladder urothelium/lamina propria and its regulation by nitric oxide.* **Eur. J. Pharmacol.** 674(2-3):445-9.
- **Vahabi B, McKay NG, Lawson K, Sellers DJ.** (2011) *The role of c-kit-positive interstitial cells in mediating phasic contractions of bladder strips from streptozotocin-induced diabetic rats.* **BJU Int.** 107(9):1480-7
- **Moro C, Uchiyama J, Chess-Williams R.** (2011) *Urothelial/lamina propria spontaneous activity and the role of M3 muscarinic receptors in mediating rate responses to stretch and carbachol.* **Urology** (6):1442.e9-15.
- **Vahabi B, Lawson K, McKay NG, Sellers DJ.** (2011) *Phasic activity of urinary bladder smooth muscle in the streptozotocin-induced diabetic rat: effect of potassium channel modulators.* **Eur. J. Pharmacol.** 660(2-3):431-7.
- **Daly DM, Chess-Williams R, Chapple C, Grundy D.** (2010) *The inhibitory role of acetylcholine and muscarinic receptors in bladder afferent activity.* **Eur. Urol.** 58(1):22-8; discussion 31-2.