

# PROFESSOR JOCELYN NINA O'NEIL (nee PENNEFATHER)

(current as at 1.8.2007)



- 1935 Born in Dubbo, NSW in 1935
- 1955 Educated at Presbyterian Ladies College, Pymble, NSW
- 1957 Obtained B.Sc. at University of Sydney
- 1961 Obtained M.Sc. at University of Sydney (Women's College)
- 1961 Obtained Ph.D. at University of Sydney  
Thesis title "**Pharmacological Actions of Some Simple Structural Analogues of Lysergic Acid: A Study of Sympathomimetic and Related Actions**"
- 1957-1960 Drug Houses of Australia, Research Fellow, Pharmacology, University of Sydney
- 1961-1962 Riker International Postdoctoral Fellowship, Pharmacology, School of Pharmacy, University of London
- 1967 Lecturer – Department of Pharmacology, Melbourne University.
- 1968-69 Instructor - Department of Pharmacology, University of Minnesota, USA.
- 1970-73 Lecturer – Department of Physiology, Monash University.
- 1974-75 Senior Lecturer – Department of Pharmacology, Melbourne University.
- 1976-87 Senior Lecturer – Department of Pharmacology, Monash University.
- 1976-90 Research Associate - Department of Pharmacology, Melbourne University.
- 1988-2000 Associate Professor, Department of Pharmacology, Monash University.
- 1989-90, 1992-97 Deputy Head – Department of Pharmacology, Monash University
- 1991 Head - Department of Pharmacology, Monash University
- 2000-06 Principal Fellow (Honorary), Department of Obstetrics and Gynecology, Royal Women's and Mercy Maternity Hospital, University of Melbourne
- 2001-07 Associate Professor (Honorary), Department of Pharmaceutical Biology, Victorian College of Pharmacy, Monash University, Parkville Campus
- 2005 Awarded Honorary Life Membership of ASCEPT

Served on ASCEPT council and current or former member of ASCEPT, ANS, ASMR, ASRB, AuPS, BPS, ISAN & ISN, AFUW and WISENET  
Consultant to the Editorial Board of the European Journal of Pharmacology

**120 Refereed papers** and reviews in the fields of:  
Autonomic Pharmacology,  
Genito-urinary tract  
Tachykinins

## STUDENTS OF PROFESSOR J.N. O'NEIL (nee PENNEFATHER)

### DOCTOR OF PHILOSOPHY

**Jaye Pui Fong Chin** "Hormonal regulation of responses mediated by adrenoceptors and purinoceptors in smooth muscle."

1989 (*J.N.O'Neil*<sup>8</sup>)

**Elizabeth Ann Davis** "The pharmacology of N-methyl N-n-propyl 2-aminotetralin: The possible involvement of dopamine receptors."

1991 (*J.N.O'Neil*<sup>8</sup> & *G.A.Bentley*<sup>8</sup>)

**Richard Martin DeGaris** "A pharmacological investigation of the effects of vasectomy and vasovasostomy upon sympathetic neurotransmission in the rat vas deferens."

1988 (*J.N.O'Neil*<sup>8</sup>)

**Lisa Fisher** "Tachykinins and uterine smooth muscle."

1998 (*J.N.O'Neil*<sup>8</sup>)

**Tracey Ann Gillman** "The interaction between xanthines and drugs acting at  $\beta$ 2-adrenoceptors in uterine and airway smooth muscle."

1995 (*J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Margaret Louise Hartley** "Adrenoceptors in smooth muscle of the female reproductive tract."

1985 (*J.N.O'Neil*<sup>8</sup>)

**John Michael Haynes** "Alpha-adrenoceptor subtypes in guinea-pig uterus."

1991 (*J.N.O'Neil*<sup>8</sup>)

**Edward John Nicles Ishac** "A study of the relationship between thyroid hormone and the autonomic system in the rat."

1983 (*J.N.O'Neil*<sup>8</sup>)

**Maria Kousides** "Pharmacological modulation of uterine contractility by  $\beta$ -adrenoceptor agonists and endothelins."

1995 (*J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Judith Ann Leedham** "A pharmacological investigation of noradrenergic mechanisms in the bisected vas deferens preparation from the rat."

1984 (*J.N.O'Neil*<sup>8</sup>)

**George Joseph Mammen** "Agents which modify uterine contractility: influence of ovarian steroids."

1987 (*J.N.O'Neil*<sup>8</sup>)

**Karen Mardel** "Cellular Activity and Anti-toxin effects of a series of anti viral dendrimers."

2000 (*G. Holan*<sup>26</sup>, *B Jarrott*<sup>8</sup> & *J.N. O'Neil*<sup>8</sup>)

**Eva Nicole Patak** "Modulation of mammalian uterine contractility by tachykinins."

2003 (*J.N.O'Neil*<sup>8&13</sup> & *M.E.Story*<sup>8</sup>)

**Joane Elizabeth Stevenson** "The role of neuronal nicotinic receptors in nociception"

1998 (*R.A. Westerman*<sup>9</sup> & *J.N. O'Neil*<sup>8</sup>)

**Sabatino Ventura** "Sympathetic neurotransmission in the rat cauda epididymis."

1992 (*J.N.O'Neil*<sup>8</sup>)

**Kim Margaret Webber** "Endothelin interactions with brain dopamine."

1999 (*J.N.O'Neil*<sup>8</sup> & *M.Van der Buuse*<sup>2</sup>)

## MASTER OF SCIENCE

**Winnie Aik Kwong Lau** “Neurotransmission to the prostate: role of acetylcholine.”  
1998 (*J.N.O’Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Thu Nguyen** “Characterisation of NANC nerves and substance P-induced bronchoconstriction in the airways.”  
1992 (*J.N.O’Neil*<sup>8</sup>)

**Jiang Qining** “Effect of endothelin on sympathetic neurotransmission in rat vas deferens.”  
1992 (*J.N.O’Neil*<sup>8</sup>)

**Yan Lee Yoong** “The influence of thyroid hormone upon the rat portal vein.”  
1983 (*J.N.O’Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

## BACHELOR OF MEDICAL SCIENCE

**David Joseph Fox** “The effect of peptides and prostaglandins on the rat costo-uterine muscle.”  
1984 (*J.N.O’Neil*<sup>8</sup>)

## BACHELOR OF SCIENCE WITH HONOURS

**Susan Patricia Adam** “The effects of ovarian hormones on the adrenoceptors of the circular and longitudinal myometrial layers of the guinea-pig.”  
1981 (*G.M.Handberg*<sup>8</sup>, *J.N.O’Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Sretna Buljbasich** “Effects of tachykinins on the smooth muscle of the rat and guinea-pig prostate.”  
1998 (*W.A.K.Lau*<sup>8</sup>, *J.N.O’Neil*<sup>8</sup> & *S.Ventura*<sup>8</sup>)

**May Yin Chang** “Effects of purinoceptor agonists on rat atria: influence of hypothyroidism.”  
1989 (*J.P.C.Chin*<sup>8</sup> & *J.N.O’Neil*<sup>8</sup>)

**Robyn Ann Charlwood** “The effect of age, castration and steroids on the post-synaptic alpha-adrenoreceptors in rat vas deferens.”  
1977 (*G.N.Handberg*<sup>8</sup> & *J.N.O’Neil*<sup>8</sup>)

**Meng Lai Chiew** “The effects of altered thyroid state upon sympathetic function within the rat isolated vas deferens and right atrium.”  
1983 (*G.M.Handberg*<sup>8</sup> & *J.N.O’Neil*<sup>8</sup>)

**Jaye Pui Fong Chin** “Studies on responses mediated by  $\beta$ -adrenoceptors in the guinea-pig uterus: effects of ovarian steroids.”  
1985 (*J.N.O’Neil*<sup>8</sup>)

**Catherine Jean Cook** “Cholinoceptors in the rat costo-uterine muscle.”  
1984 (*J.N.O’Neil*<sup>8</sup>)

**Richard Martin DeGaris** “Sympathetic function in the epididymal and prostatic halves of the rat vas deferens after vasectomy.”  
1982 (*J.N.O’Neil*<sup>8</sup>)

**Maria Dimitriadis** “The effects of diabetes on responses of rat isolated uterine horns to inhibitory and excitatory agonists.”

1989 (*J.N.O'Neil*<sup>8</sup>)

**Lisa Fisher** “Actions of tachykinin peptides on smooth muscle of the rat genitourinary tract: influence of hormones and pregnancy on enzymatic breakdown.”

1992 (*J.N.O'Neil*<sup>8</sup>)

**Anna Jane Fleming** “Tachykinin receptors in the mouse and human uterus.”

1998 (*J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Tracey Ann Gillman** “Pharmacological classification of receptors for adenylyl purines on the rat uterus: effect of ovarian steroids.”

1990 (*J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Diana Gould** “Effects of calcitonin gene-related peptide, substance P and neurokinin A on the rat isolated uterus.”

1990 (*J.N.O'Neil*<sup>8</sup>)

**Melanie Heavey** “Tachykinin receptor subtypes in the guinea-pig bronchus: their role in neurotransmission.”

1994 (*W.A.K.Lau*<sup>8</sup> & *J.N.O'Neil*<sup>8</sup>)

**Jan Elizabeth Irving** “The effects of changes in Ca<sup>2+</sup>:Mg<sup>2+</sup> ratio upon nerve function and agonist potencies in the isolated vas deferens of the rat.”

1984 (*J.N.O'Neil*<sup>8</sup>)

**Edward John Nicles Ishac** “The effects of changes in thyroid state upon cardiac alpha and beta-adrenoceptors: adenylate cyclase; and upon tissue catecholamine concentration in the rat.”

1978 (*J.N.O'Neil*<sup>8</sup>)

**Judith Ann Leedham** “The response of the vas deferens to adrenoceptor agonists following treatment of rats with the anti- thyroid drug propylthiouracil.”

1979 (*G.M.Handberg*<sup>8</sup> & *J.N.O'Neil*<sup>8</sup>)

**Sherie Lynn Ma** “Characterisation of neurotransmission to the female mouse urinary bladder.”

2000 (*J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**George Joseph Mammen** “Effect of altered thyroid state on adrenoceptor mediated vasoconstrictor response and noradrenaline uptake in the mesenteric vasculature of the rat.”

1982 (*J.N.O'Neil*<sup>8</sup>)

**Theo Mavromihalis** “Neurotransmission to the smooth muscle of the guinea-pig and rat seminal vesicles.”

1996 (*J.N.O'Neil*<sup>8</sup>)

**Karen Janelle Mclean** “Purinoceptors in the costo-uterine muscle and the fallopian tube of the guinea-pig: effects of steroid-treatment and late pregnancy.”

1993 (*J.Haynes*<sup>8</sup>, *J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Nallini Moodley** “The effects of tachykinins on isolated uterus from the rat during the oestrous cycle.”

1997 (*J.N.Pennefather*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Melinda Joy Munns** “Characterisation of muscarinic receptors in the rat uterus.”

1994 (*J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Maxine Orre** “Purinoceptors in the guinea-pig portal vein and aorta: the effects of steroid treatment and pregnancy on purinoceptor-mediated responses.”

1993 (*J.M.Haynes*<sup>8</sup>, *J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Eva Nicole Patak** “Endothelin interactions with uterotonins in gravid and non-gravid uterus.”

1997 (*M.Kousides*<sup>8</sup>, *J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Ashley Preston** “The role of purine nucleotides in neurotransmission to the smooth muscle of the rat prostate gland.”

1999 (*W.A.K.Lau*<sup>8</sup>, *J.N.O'Neil*<sup>8</sup> & *S.Ventura*<sup>8</sup>)

**Angela Marina Salamoussa** “The role of endothelins in the rat prostate gland.”

1999 (*J.N.O'Neil*<sup>8</sup> & *S.Ventura*<sup>8</sup>)

**Jane Shennan** “Endothelial receptors in the longitudinal layer of guinea-pig isolated myometrium.”

1996 (*J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Stephen David Shipley** “An investigation of adrenoreceptors mediating inhibition of neurotransmission in the rat vas deferens.”

1977 (*G.M.Handberg*<sup>8</sup> & *J.N.O'Neil*<sup>8</sup>)

**Matthew Craig Sing** “Tackykinin receptors in the rat duodenum.”

1996 (*J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Karen Smith** “Investigation of possible cholinergic effects of novel compounds.”

1991 (*J.N.O'Neil*<sup>8</sup>)

**Cheryl Kaye Stead** “Degeneration contraction and sensitivity changes in the rat vas deferens following vasectomy.”

1987 (*R.M.Degaris*<sup>8</sup> & *J.N.O'Neil*<sup>8</sup>)

**Karen Walsh** “Muscarinic receptors in the mammalian vas deferens.”

1995 (*J.N.O'Neil*<sup>8</sup> & *K.Smith*<sup>8</sup>)

**Susan Elizabeth Warming** “The effects of drugs on inhibitory adrenoreceptors and on the neuronal uptake of <sup>3</sup>H-noradrenaline in the rat vas deferens.”

1978 (*G.M.Handberg*<sup>8</sup> & *J.N.O'Neil*<sup>8</sup>)

**Kim Margaret Webber** “Influence of platelet-activating factor (PAF) on the response of the circular layer of the myometrium to various agents.”

1994 (*J.N.O'Neil*<sup>8</sup> & *M.E.Story*<sup>8</sup>)

**Yan Lee Yoong** “The effects of hypothyroidism on vascular adrenoreceptors.”

1981 (*J.N.O'Neil*<sup>8</sup>)

2 Baker Medical Research Institute  
8 Monash University Department of Pharmacology  
9 Monash University Department of Physiology  
13 Victorian College of Pharmacy  
26 CSIRO