

## Curriculum Vita

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### **Education:**

2007	Grad Certificate	Clinical Epidemiology	The University of Newcastle, Australia
1985	Ph.D.	Clinical Science	Australian National University
1980	B.Sc.(hons)	Developmental Biology	Aberdeen University

### **International Development Experience:**

#### ***Principal Scientific Advisor (MERL) (2020-current):*** Compassion International

- Provide subject matter and technical expertise advice to MERL and Global Program leadership
- Develop and manage external academic research relationships
- Develop and manage external research grants and publications
- Promote and oversee MERL Principles and Standards
- Oversee internal research ethics guidelines and processes
- Coach and mentor MERL staff

#### ***Global Program Effectiveness Research Director:*** (2008-2020): Compassion International.

- Lead the global effort in empirical measurement of program effectiveness across 25 countries, 7000 partners and over 2 million beneficiaries.
- Oversee a team of managers and specialists in the development of quantitative and qualitative research studies on the effectiveness of program interventions, using rigorous approaches to generate reliable, timely and meaningful information to stakeholders.
- Develop and foster relevant and appropriate external research collaborations.
- Foster an environment of corporate and professional growth in evidence-informed programming, in alignment with compassion's strategies and objectives.
- Select, manage and develop assigned staff for continuous learning and development that enhances individual performance and organizational capability.
- Draw on complex, multi-country field exposure to advise program managers, field office staff, and senior leadership on relevant programmatic issues.
- Network with senior leaders from other departments that collect information and data (e.g., marketing, auditing and quality assurance, business intelligence, and management) in order to minimize duplication of effort, build cooperation and support the growth of quality information gathering across the organization.
- Direct subordinate managers and professionals in the presentation of research findings to large audiences in a consumable way to engage non-research staff in research results.

- Manage the annual budget and departmental expenses, ensuring accountability for on-time completion of deliverables based on department objectives, SLAs, and other Compassion standards, ensuring compliance with regulatory and board policies.

### **Academic Experience:**

- 2018-current Visiting Professor, Institute for Applied Research in Youth Development, Tufts University
- 2008-current Conjoint Professor, Faculty of Health and Medicine, The University of Newcastle
- 2007-2008 Professor of Biomedical Science, The University of Newcastle, Australia
- 2004-2006 Assistant Dean Research, The University of Newcastle, Australia
- 2002-2007 Associate Professor of Medical Biochemistry, The University of Newcastle, Australia
- 2002-2003 Deputy Head of School of Biomedical Science, The University of Newcastle, Australia
- 1999-2002 Head of Medical Biochemistry, The University of Newcastle, Australia
- 1998-1999 Senior Lecturer, Faculty of Health, The University of Newcastle, Australia
- 1992-1998 Lecturer, Faculty of Medicine, The University of Newcastle, Australia
- 1989-1992 Research Fellow, Faculty of Medicine, The University of Newcastle, Australia
- 1985-1989 Research Fellow, The University of Dundee, UK

### **Academic career output**

- 69 peer reviewed publications (Medicine, Education, International Development)
- 2 patents
- Over \$8 million grant funding
- Member of Editorial Board of The Biochemical Journal (UK)
- Member of National Health and Medical Research Council of Australia Grant Review Panels
- Grant reviewer for Medical Research Council (UK), Australian Research Council, Wellcome Foundation (UK), Alzheimer's Foundation (USA), National Heart Foundation (Aust)

### **International Development Publications:**

- **Sim, A.T.R.**, & Peters M (2014) Compassion International: Holistic Child Development through Sponsorship and Church Partnership in Watson B & Clarke M (eds). Child Sponsorship: Exploring pathways to a brighter future. Londib: Palgrave McMillan.
- King, P. E., Yoo, Y., Vaughn, JM., Tirrell, J. M., Geldhof, G. J., Iraheta, G., Williams, K., **Sim, A. T. R.**, Stephenson, P., Dowling, E., Lerner, R. M., & Lerner, J. V. (2019). Evaluating the measure of diverse adolescent spirituality in samples of Mexican and Salvadoran youth. *Psychology of Religion and Spirituality*. Advance online publication. <https://doi.org/10.1037/rel0000279>
- Tirrell, J. M., Gansert, P. K., Geldhof, G. J., Dowling, E. M., Lerner, J. V., King, P. E., **Sim, A. T. R.**, Iraheta, G., Williams, K., & Lerner, R. M. (2019). Using the specificity principle to go inside the black box of programs: The sample case of an El Salvador PYD program. In S. Verma, A. Petersen, & J. Lansford (Eds.), *Sustainable human development: Challenges and solutions for implementing the United Nations' Goals* [Special issue]: *Zeitschrift für Psychologie*.227(2), 121-128
- Lerner, R. M., Tirrell, J. M., Lerner, J. V., Geldhof, G. J., Gestsdottir, S., King, P. E., **Sim, A. T. R.**, &

Dowling, E. (2019). The end of the beginning: Evidence and absences studying PYD in a global context. *Adolescent Research Review*, 4(1), 1-14.

- Tirrell, J. M., Geldhof, G. J., King, P. E., Dowling, E., **Sim, A.**, Williams, K., Iraheta, G., Lerner, J. V., & Lerner, R. M. (2019). Measuring spirituality, hope, and thriving among Salvadoran youth: Initial findings from the Compassion International Study of Positive Youth Development. *Child & Youth Care Forum*, 48(2), 241-268.
- Lerner, RM., Lerner, JV., Geldhof, GJ., Gestsdottir, S., King, PE., **Sim, ATR.**, Batanova, M., Tirrell, JM & Dowling, E (2018) Study Positive Youth Development in Different Nations : Theoretical and Methodological Issues, in *Handbook of Adolescent Development Research and its Impact on Global Policy*, Oxford University Press. Eds Landsford JE & Banati P.
- Tirrell, JM., Dowling, EM., Gansert, P., Buckingham M., Wong, CA., Suzuki, S, Naliaka., Kibbedi P., Namurinda, E., Williams, K., Geldhof, GJ., Lerner, JV., King, PE., Sim, ATR., & Lerner, RM (2020) Towards a measure for assessing features of effective youth development programs: Contextual safety and the “big 3” components of positive youth development programs in Rwanda. *Child and Youth Care Forum*, 49, 201-222
- King, PE., Vaughn, J., Yoo, Y., Tirrell, J., Dowling, E., Lerner, R., Geldhof, J., Lerner, JV., Iraheta, G., Williams, K., & Sim, ATR (2020) Exploring Religiousness and Hope: Examining the roles of spirituality and social connections among Salvadoran youth. *Religions*, 11(2), 75

#### POSTERS & PRESENTATIONS:

- Tirrell, J. M., Dowling, E. M., Gansert, P., Lerner, J. V., King, P. E., Naliaka, C., Kibbedi, P., Namurinda, E., Williams, K., **Sim, A. T. R.**, & Lerner, R. M. (2019, March). *Assessing effective out-of-school-time programs: Development of a measure for the “Big Three” features of positive youth development programs*. Paper presented at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.
- Yoo, Y., King, P. E., Vaughn, J. M., Tirrell, J. M., Iraheta, G., William, K., **Sim, A.**, Dowling E., Lerner, R. M., & Lerner, J. V. (2019, March). *Profiles of Youth Strengths and PYD Outcomes for Salvadoran Youth*. Paper presented at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.
- Vaughn, J. M., Yoo, Y., King, P. E., Tirrell, J. M., Iraheta, G., William, K., **Sim, A.**, Dowling E., Lerner, R. M., & Lerner, J. V. (2019, March). *Exploring ecological assets and personal strengths among Salvadoran youth: The complex relation between religion and hope*. Paper presented at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.
- Gansert, P., Tirrell, J., Dowling, E., Lerner, J., King, E., Williams, K., Iraheta, G., & **Sim, A.** (2018, October). *Using the specificity principle to go inside the black box of program evaluation: The sample case of an international PYD program*. Poster presented at the Society for Research in Child Development Special Topic Meeting: Promoting Character Development Among Diverse Children

and Adolescents: The Roles of Families, Schools, and Out-Of-School-Time Youth Development, Philadelphia, PA.

- King, P. E., Yoo, Y., Tirrell, J. M., Geldhof, G. J., Iraheta, G., Williams, K., **Sim, A.**, Stephenson, P., Dowling E., Lerner, R. M., & Lerner, J. V. (2018, October). *Measure of Diverse Adolescent Spirituality in Mexican & Salvadoran Youth: Confirmatory factor analysis and measurement invariance*. Paper presented at the Society for Research in Child Development Special Topic Meeting: Promoting Character Development Among Diverse Children and Adolescents: The Roles of Families, Schools, and Out-Of-School-Time Youth Development, Philadelphia, PA.
- Tirrell, J. M., Geldhof, G. J., King, P. E., Dowling, E., **Sim, A.**, Williams, K., Iraheta, G., Lerner, J. V., & Lerner, R. M. (2018, April). *Measuring spirituality, hope, and thriving among Salvadoran youth: Initial findings from the Compassion International Study of Positive Youth Development*. Paper presented at the 2018 Biennial Meeting of the Society for Research on Adolescence, Minneapolis, MN.

### **Medicine and Health Publications:**

- 2013 Mate K, **Sim A**, Weidenhofer J, Milward L, Scott J, 'Investigation of the human disease osteogenesis imperfecta: A research-based introduction to concepts and skills in biomolecular analysis', *Biochemistry & Molecular Biology Education*, 41 103-109.
- 2011 Verrills NM, Irwin JA, He XY, Wood LG, Powell H, Simpson JL, McDonald, V, **Sim, ATR** & Gibson, PG., 'Identification of novel diagnostic biomarkers for asthma and chronic obstructive pulmonary disease', *American Journal of Respiratory and Critical Care Medicine*, 183 1633-1643.
- 2010 Roberts KG1, Smith AM, McDougall F, Carpenter H, Horan M, Neviani P, Powell JA, Thomas D, Guthridge MA, Perrotti D, **Sim AT**, Ashman LK, Verrills NM., 'Essential requirement for PP2A inhibition by the oncogenic receptor c-KIT suggests PP2A reactivation as a strategy to treat c-KIT+ cancers', *Cancer Research*, 70 5438-544 Kranias G1, Watt LF, Carpenter H, Holst J, Ludowyke R, Strack S, Sim AT, Verrills NM.
- 2010 Kranias G1, Watt LF, Carpenter H, Holst J, Ludowyke R, Strack S, **Sim AT**, Verrills NM., 'Protein phosphatase 2A carboxymethylation and regulatory B subunits differentially regulate mast cell degranulation', *Cellular Signalling*, 22 1882-1890 .
- 2008 Skelding KA, Verrills NM, Fluechter L, **Sim AT**, Dickson PW, Rostas JA, 'Development of a novel method for the identification of CaMKII binding proteins', *Journal of Neurochemistry*, 106 51.
- 2006 **Sim AT**, Ludowyke RI, Verrills NM, 'Mast cell function: Regulation of degranulation by serine/threonine phosphatases', *Pharmacology & Therapeutics*, 112 425-439.
- 2006 **Sim AT**, Herd LM, Proctor DT, Baldwin ML, Meunier FA, Rostas JA, 'High throughput analysis of endogenous glutamate release using a fluorescence plate reader', *Journal of Neuroscience Methods*, 153 43-47.

- 2006 Baldwin ML, Cammarota MP, **Sim AT**, Rostas JA, 'Src family tyrosine kinases differentially modulate exocytosis from rat brain nerve terminals', *Neurochemistry International*, 49 80-86.
- 2006 Miguez PV, Lehmann IT, Fluechter L, Cammarota MP, Gurd JW, **Sim AT**, et al., 'Phosphorylation of CaMKII at Thr253 occurs in vivo and enhances binding to isolated postsynaptic densities', *Journal of Neurochemistry*, 98 289-299.
- 2003 Baldwin ML, Rostas JA, **Sim AT**, 'Two modes of exocytosis from synaptosomes are differentially regulated by protein phosphatase types 2A and 2B', *Journal of Neurochemistry*, 85 1190-1199.
- 2003 Bevilaqua L, Cammarota MP, Dickson PW, **Sim AT**, Dunkley PR, 'Role of protein phosphatase 2C from bovine adrenal chromaffin cells in the dephosphorylation of phospho-serine 40 tyrosine hydroxylase', *Journal of Neurochemistry*, 85 1368-1373.
- 2003 **Sim ATR**, Holst J, Ludowyke RI, '[10] Protein Phosphatase Translocation in RBL-2H3 Cells', *Methods in Enzymology*, 366 113-124.
- 2003 **Sim AT**, Baldwin ML, Rostas JA, Holst J, Ludowyke RI, 'The role of serine/threonine protein phosphatases in exocytosis', *Biochemical Journal*, 373 641-659.
- 2002 McCluskey A, **Sim A**, Sakoff J, 'Serine-threonine protein phosphatase inhibitors: Development of potential therapeutic strategies', *Journal of Medicinal Chemistry*, 45 1151-1175.
- 2002 Leal R, **Sim AT**, Goncalves C, Dunkley PR, 'Tyrosine Hydroxylase Dephosphorylation by Protein Phosphatase 2A in Bovine Adrenal Chromaffin Cells', *Neurochemical Research*, 27, No 3 207-213.
- 2002 McCluskey A, Atherton MA, Walkom CC, Bowyer M, **Sim A**, Young D, Sakoff J, 'The first two cantharidin analogues displaying PP1 selectivity', *Bioorganic & Medicinal Chemistry Letters*, 12 391-393.
- 2002 **Sim AT**, Ludowyke R, 'The Complex Nature of Protein Phosphatases', *IUBMB Life*, 53 283-286.
- 2002 Holst J, **Sim AT**, Ludowyke R, 'Protein Phosphatases 1 and 2A Transiently Associate with Myosin during the Peak Rate of Secretion from Mast Cells', *Molecular Biology of the Cell*, 13 1083-1098.
- 2001 Schillace R, Voltz J, **Sim AT**, Shenolikar S, Scott J, 'Multiple Interactions within the AKAP220 Signaling Complex Contribute to Protein Phosphatase 1 Regulation', *Journal of Biological Chemistry*, 276.
- 2001 Michell BJ1, Chen Zp, Tiganis T, Stapleton D, Katsis F, Power DA, **Sim AT**, Kemp BE, 'Coordinated Control of Endothelial Nitric-oxide Synthase Phosphorylation by Protein Kinase C and the cAMP-dependent Protein Kinase', *Journal of Biological Chemistry*, 276 17625-17628.
- 2001 **Sim AT**, 'Protein Phosphatases: Regulating the Regulators', *Australian Biochemist*, 32 No. 1 13-15.
- 2000 Ludowyke RI, Holst J, Mudge L-M, **Sim AT**, 'Transient Translocation and Activation of

Protein Phosphatase 2A during Mast Cell Secretion', *The Journal of Biological Chemistry*, 275 No. 9 March 3 6144-6152.

- 2000 Lengyel I, Fieuw-Makaroff S, Hall AL, **Sim AT**, Rostas JA, Dunkley PR, 'Modulation of the Phosphorylation and Activity of Calcium/Calmodulin-Dependent Protein Kinase II by Zinc', *Journal of Neurochemistry*, 75 No. 2 594-605.
- 2000 McCluskey A, Atherton MA, Mudgee L, **Sim A**, Sakoff JA, Quinn R, 'Anhydride modified cantharidin analogues. Is ring opening important in the inhibition of protein phosphatase 2A?', *European Journal of Medicinal Chemistry*, 35 957-964.
- 2000 McCluskey A1, Bowyer MC, Collins E, **Sim ATR**, Sakoff JA, Baldwin ML, 'Anhydride Modified Cantharidin Analogues: Synthesis, Inhibition of Protein Phosphatases 1 and 2A and Anticancer Activity', *Bioorganic & Medicinal Chemistry Letters*, 10 1687-1690.
- 1999 Lengyel I, Hall AL, Fieuw-Makaroff S, **Sim ATR**, Rostas JAP, Dunkley PR, 'Characterization of the zinc-dependent autophosphorylation sites on calcium/calmodulin-dependent protein kinase II', *Journal Of Neurochemistry*, 73 S33-S33
- 1999 **Sim AT**, Scott J, 'Targeting of PKA, PKC and protein phosphatases to cellular microdomains', *Cell Calcium*, 26 No. 5 209-217
- 1998 Capon RJ, Rooney F, Murray LM, Collins E, **Sim AT**, Rostas JA, et al., 'Dragmacidins: New protein phosphatase inhibitors from a Southern Australian deep-water marine sponge *Spongosorites* sp', *Journal of Natural Products*, 61 660-662
- 1998 **Sim AT**, Collins E, Mudge LM, Rostas JA, 'Developmental regulation of protein phosphatase types 1 and 2A in post-hatch chicken brain', *Neurochemical Research*, 23(4) 487-491
- 1998 Ludowyke RI, **Sim ATR**, 'Potential role of protein phosphatase PP2A in mast cell secretion', *Molecular Biology Of The Cell*, 9 202A-202A
- 1998 Collins E, **Sim AT**, 'Regulation of neuronal PP1 and PP2A during development.', *Methods in molecular biology (Clifton, N.J.)*, 93 79-102
- 1997 Brent PJ, Herd L, Saunders H, **Sim ATR**, Dunkley PR, 'Protein phosphorylation and calcium uptake into rat forebrain synaptosomes: Modulation by the sigma (F) ligand 1,3-ditolylguanidine.', *J.Neurochem*, 68 2201-2211
- 1997 Goncalves CA, Hall A, **Sim ATR**, Bunn SJ, Marley P, Cheah TB, Dunkley PR, 'Tyrosine hydroxylase phosphorylation in digitonin permeabilised bovine adrenal chromaffin cells: The effect of protein kinase and phosphatase inhibitors on Ser-19 and Ser-40 phosphorylation.', *J.Neurochem*, 69 2387-2396
- 1997 Brent PJ, Herd L, Saunders H, **Sim ATR**, Dunkley PR, 'Protein phosphorylation and calcium uptake into rat forebrain synaptosomes: Modulation by the sigma (sigma) ligand, 1,3-ditolylguanidine', *Journal Of Neurochemistry*, 69 S206-S206
- 1997 Goncalves CA, Hall A, **Sim ATR**, Bunn SJ, Marley PD, Cheah TB, Dunkley PR, 'Tyrosine hydroxylase phosphorylation in digitonin-permeabilised bovine adrenal chromaffin cells', *Journal Of Neurochemistry*, 69 S207-S207

- 1997 **Sim ATR**, Collins E, Mudge LM, 'Subcellular pools of protein phosphatases in neuronal control', *Journal Of Neurochemistry*, 69 S163-S163
- 1996 Lengyel I, Nichol KA, **Sim ATR**, Bennett MR, Dunkley PR, Rostas JAP, 'Characterization of protein kinase and phosphatase systems in chick ciliary ganglion', *Neuroscience*, 70 577-588
- 1995 Brent PJ Haynes H, Jarvie PE, Mudge L, **Sim ATR**, Dunkley PR, 'Phosphorylation Of Synapsin I And Dynamin In Rat Forebrain Synaptosomes - Modulation By Sigma (Sigma) Ligands', *Neuroscience Letters*, 191 71-74
- 1995 Agrez MV, Meldrum CJ, **Sim ATR**, Aebersold RH, Clark IM, Cawston TE, Burns GF, 'A Fibroblast Elongation-Factor Purified From Colon-Carcinoma Cells Shares Sequence Identity With Timp-1', *Biochemical And Biophysical Research Communications*, 206 590-600 (1995)
- 1995 Bunn SJ, **Sim ATR**, Herd LM Austin LM, Dunkley PR, 'Tyrosine-Hydroxylase Phosphorylation In Bovine Adrenal Chromaffin Cells - The Role Of Intracellular Ca<sup>2+</sup> In The Histamine H-1 Receptor-Stimulated Phosphorylation Of Ser(8), Ser(19), Ser(31), And Ser(40)', *Journal Of Neurochemistry*, 64
- 1995 Dunkley PR, Bunn SJ, **Sim ATR**, Austin L, Herd L, Hall A, Buckenham AJ, 'Intracellular Calcium-Dependent Phosphorylation Of Tyrosine-Hydroxylase In Bovine Adrenal Chromaffin Cells', *Journal Of Neurochemistry*, 65 S5-S5
- 1995 **Sim ATR**, Ratcliffe E, Rostas JAP, 'Differential Regulation Of Membrane-Bound Protein Phosphatases In Brain', *Journal Of Neurochemistry*, 65 S93-S93
- 1994 Liu JP, **Sim ATR**, Robinson PJ, 'Calcineurin Inhibition Of Dynamin-I Gtpase Activity Coupled To Nerve-Terminal Depolarization', *Science*, 265 970-973 (1994)
- 1994 **Sim ATR**, Ratcliffe E, Mumby MC, Villamoruzzi E, Rostas JAP, 'Differential Activities Of Protein Phosphatase Type-1 And Type-2a In Cytosolic And Particulate Fractions From Rat Forebrain', *Journal Of Neurochemistry*, 62 1552-1559
- **Sim ATR**, Ratcliffe E, Rostas JAP, 'Selective Regulation Of Protein Phosphatase-I During Development In Chicken Forebrain And Cerebellum', *Journal Of Neurochemistry*, 63 S73-S73
- 1993 **Sim ATR**, Mudge LM, 'Protein Phosphatase-Activity In Cyanobacteria - Consequences For Microcystin Toxicity Analysis', *Toxicon*, 31 1179-1186
- 1993 Murray L, **Sim ATR**, Rostas JAP, Capon RJ, 'Isopalinurin - A Mild Protein Phosphatase Inhibitor From A Southern Australian Marine Sponge, *Dysidea Sp*', *Australian Journal Of Chemistry*, 46 1291-1294
- 1993 Murray L, **Sim ATR**, Rostas JAP, Capon RJ, 'Isopalinurin - A Mild Protein Phosphatase Inhibitor From A Southern Australian Marine Sponge, *Dysidea Sp* (Vol 46, Pg 1291-1294, 1993)', *Australian Journal Of Chemistry*, 46 1824-1824
- 1993 Capon RJ, Elsbury K, Butler MS, Lu CC, Hooper JNA, Rostas JAP, **Sim, ATR Et Al.**, 'Extraordinary Levels Of Cadmium And Zinc In A Marine Sponge, *Tedania-Charcoti* Topsent - Inorganic Chemical Defense Agents', *Experientia*, 49 263-264

- 1993 **Sim ATR**, Ratcliffe E, Dunkley PR, Rostas JAP, 'Membrane-Bound Forms Of Protein Phosphatase Type-1 And Type-2a Have Lower Activity Than Cytosolic Forms In Brain', *Journal Of Neurochemistry*, 61 S136-S136
- 1993 **Sim ATR**, Lloyd HGE, Jarvie PE, Morrison M, Rostas JAP, Dunkley PR, 'Synaptosomal Amino-Acid Release - Effect Of Inhibiting Protein Phosphatases With Okadaic Acid', *Neuroscience Letters*, 160 181-184
- 1991 **Sim ATR**, Dunkley PR, Jarvie PE, Rostas JAP, 'Modulation Of Synaptosomal Protein-Phosphorylation Dephosphorylation By Calcium Is Antagonized By Inhibition Of Protein Phosphatases With Okadaic Acid', *Neuroscience Letters*, 126 203-206
- 1991 Hardie DG, Haystead TAJ, **Sim ATR**, 'Use Of Okadaic Acid To Inhibit Protein Phosphatases In Intact-Cells', *Methods In Enzymology*, 201 469-476
- 1990 Davies SP, **Sim ATR**, Hardie DG, 'Location And Function Of Three Sites Phosphorylated On Rat Acetyl-Coa Carboxylase By The Amp-Activated Protein Kinase', *European Journal Of Biochemistry*, 187
- 1989 Haystead TAJ, **Sim ATR**, Carling D, Honnor RC, Tsukitani Y, Cohen P, Hardie DG, 'Effects Of The Tumor Promoter Okadaic Acid On Intracellular Protein-Phosphorylation And Metabolism', *Nature*, 337 78-81
- 1988 **Sim ATR**, Hardie DG, 'The Low Activity Of Acetyl-Coa Carboxylase In Basal And Glucagon-Stimulated Hepatocytes Is Due To Phosphorylation By The Amp-Activated Protein Kinase And Not Cyclic Amp-Dependent Protein Kinase', *Febs Letters*, 233 294-298
- 1987 Jones SMA, **Sim ATR**, Hardie DG, Yeaman SJ, 'Phosphorylation Of Branched-Chain 2-Oxo Acid Dehydrogenase Complex In Isolated Hepatocytes', *Biochemical And Biophysical Research Communications*, 144 628-633
- **Sim ATR**, White MD, Denborough MA, 'Effects Of Adenylate Cyclase Activators On Porcine Skeletal Muscle In Malignant Hyperpyrexia', *British Journal Of Anaesthesia*, 59 1557-1562
- **Sim ATR**, White MD, Denborough MA, 'The effects of chlorbutol on skeletal muscle sarcoplasmic reticulum function in porcine malignant hyperpyrexia', *International Journal of Biochemistry*, 19 827-830
- 1987 **Sim ATR**, White MD, Denborough MA, 'Thiophosphorylation of skeletal muscle sarcoplasmic reticulum in porcine malignant hyperpyrexia', *International Journal of Biochemistry*, 19 1217-1224 (1987)
- 1987 **Sim ATR**, White MD, Denborough MA, 'The Effect Of Oxytocin On Porcine Malignant Hyperpyrexia Susceptible Skeletal Muscle', *Clinical and Experimental Pharmacology and Physiology*, 14 605-610