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Robert Moss

Appointments 2014-2016	University of Melbourne, Australia Research Fellow, Melbourne School of Population and Global Health.
2012-2014	Duke University, USA Visiting Assistant Professor, Department of Mathematics.
2010-2012	CNRS, France Postdoc, IR4M CNRS UMR8081, Université Paris-Sud.
2009-2010	University of Melbourne, Australia Research Officer, Melbourne School of Population and Global Health.
Education 2005–2008	University of Melbourne, Australia PhD, Renal modelling. • Stawell Scholarship recipient, 2008 • Australian Postgraduate Award
2000-2004	BSc(Pure Maths), BE(Software, First Class Honors)
Publications May 2014	Peer-reviewed journal articles Moss & Layton. "Dominant factors that govern pressure natriuresis in diure-
	sis and antidiuresis: a mathematical model", AJP Renal 306(9): F952–F969.
Jan 2014	Moss & Thomas. "Hormonal regulation of salt and water excretion: a mathematical model of whole-kidney function and pressure-natriuresis", <i>AJP Renal</i> 306(2): F224–248. Selected for an Editorial Focus article (link)
Dec 2012	Dafilis et al. "Drivers and consequences of influenza antiviral resistant-strain emergence in a capacity-constrained pandemic response", <i>Epidemics</i> 4(4): 219–226.
Jun 2012	Moss et al. "Virtual Patients and Sensitivity Analysis of the Guyton Model of Blood Pressure Regulation: Towards Individualized Models of Whole-Body Physiology", <i>PLoS Comp Biol</i> 8(6): e1002571.
Apr 2012	Bolton et al. "An analysis of the likely effectiveness of pharmaceutical and non-pharmaceutical interventions for mitigating influenza transmission in Mongolia", <i>Bull WHO</i> 90(4): 264–271.
Oct 2011	Hernández et al. "Integration of detailed modules in a core model of body fluid homeostasis and blood pressure regulation", <i>Prog Biophys Mol Biol</i> 107(1): 169–182.
May 2011	McCaw et al. "A decision support tool for evaluating the impact of a diagnostic-capacity and antiviral-delivery constrained intervention strategy on an influenza pandemic", <i>Influenza Other Respi Viruses 5</i> (Suppl. 1): 212–215.
Feb 2011	Moss et al. "Diagnosis and Antiviral Intervention Strategies for Mitigating an Influenza Epidemic", <i>PLoS ONE</i> 6(2): e14505.
Nov 2009	Moss et al. "Discrete network models of interacting nephrons, <i>Physica D</i> 238(22): 2166–2176.
May 2009	Moss et al. "A computational model for emergent dynamics in the kidney, <i>Phil. Trans. R. Soc. A</i> 367(1896): 2125–2140.
May 2009	Harris et al. "The Virtual Kidney: an e-Science interface and Grid Portal", <i>Phil. Trans. R. Soc. A</i> 367(1896): 2141–2159.

	Invited Talks Australia & New Zealand Mathematics Convention. The University of Melbourne.
May 2014	Molecular to Systems Physiology. Mathematical Biosciences Institute, Ohio State University.
May 2011	Conferences French Society of Theoretical Biology (presented in French). Autrans, France.
Apr 2010	NSW Epidemiology Special Interest Group. NSW Department of Health.
Mar 2010	MISMS Oceania Regional Influenza Meeting. Melbourne Business School.
Dec 2009	NHMRC H1N1 workshop. Canberra, ACT.
Sep 2008	UK e-Science 2008 All Hands Meeting. University of Edinburgh, Scotland.
Jul 2007	Complex 07: 8th Asia-Pacific Complex Systems Conference. Gold Coast, Queensland. • Best Talk in Track.
Feb 2007	The Kidney: Cellular, Tubular, and Vascular Physiology. Mathematical Biosciences Institute, Ohio State University.
Sep 2014	Seminars MathBio Interest Group, University of Melbourne.
Aug 2013	Department of Biomedical Physiology and Kinesiology, Simon Frasier University.
Sep 2009	Department of Nephrology, Austin Hospital.
May 2009	Mathematics Department, University of Melbourne.
Dec 2008	Laboratory IBISC, Université d'Evry Val d'Essonne.
Aug 2008	PhD Completion Seminar. Department of Computer Science and Software Engineering. University of Melbourne.
	Posters
Apr 2014	Experimental Biology 2014.
Apr 2013 Apr 2012	Experimental Biology 2013. Experimental Biology 2012.
Apr 2012 Apr 2011	Experimental Biology 2011.
Sep 2010	VPH 2010 Annual Conference.
Teaching 2013	Lecturer Multivariable Calculus, Duke University
2007-2008	Team Supervisor Software Engineering Project, University of Melbourne
2005-2008 2001-2004	Tutor Software Engineering Methods & Testing, University of Melbourne Software Engineering Principles & Tools, University of Melbourne
ants & Awards	
2010 2008	The Origins of Renal Physiology, MDIBL. Stawell Scholarship recipient.
2008	Stawen Scholarship recipient.

Page 2 of 3 Robert Moss

Grants

Professional Service Manuscript Reviewer

American Journal of Physiology – Renal Physiology

BMC Infectious Diseases

Mathematical Medicine & Biology

PLoS ONE

Affiliations

2014- Australian Mathematical Society (AMS)

2014- Australia & New Zealand Industrial and Applied Mathematics (ANZIAM)

References Available upon request

Robert Moss Page 3 of 3