

# Dr Bryan Grieg Fry

## CURRICULUM VITAE

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### MAILING ADDRESS

Dr. Bryan Grieg Fry  
Venomics Laboratory Group Leader  
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### DEGREES CONFERRED

- 2002 **Doctor of Philosophy** – Centre for Drug Design and Development (Institute for Molecular Biosciences) and the Department of Biochemistry, University of Queensland.
- 1995 **University Honors Program: Bachelor of Science (Molecular Biology), Bachelors of Arts (Scientific Philosophy), Bachelors of Arts (minor) (Psychology)** PSU, USA

### POSITIONS HELD

- 2007-Present QEII Research Fellow, Dept. of Biochemistry & Molecular Biology, University of Melbourne
- 2003-2006 Deputy Director, Australian Venom Research Unit, University of Melbourne
- 2004-2006 Australian Research Council Australian Postdoctoral Fellow, AVRU, University of Melbourne
- 2001-2002 Research Fellow, Dept. Biological Sciences, National University of Singapore
- 2000 Research Assistant, Australian Venom Research Unit, Department of Pharmacology, University of Melbourne
- 1997-2000 Ph.D. Student, IMB, University of Queensland (PhD awarded 2-2002)
- 1990-1995 Undergraduate, University Honors Program (Dual degree in Molecular Biology and Scientific Philosophy), Portland State University, USA

### RESEARCH SCHOLARSHIPS AND FELLOWSHIPS AWARDED

#### A. Major Career Awards:

- 2007 QEII Fellowship, Australian Research Council
- 2007 J.G. Russell Award, Australian Academy of Science
- 2007 Victoria Fellowship
- 2004 APD Fellowship, Australian Research Council
- 2004 Zuckerkandl Prize, Journal of Molecular Evolution

#### B. Research fellowships and scholarships

- 2007 AFAS Fellowship
- 2007 Edward Dyason Fellowship
- 2006 Netherlands Organisation for Scientific Research
- 2006 Australian Academy of Sciences Travel Grant
- 2006, 2005, 2004 CASS Foundation Travel Grants
- 2005 Short Term Fellowship, International Human Frontiers Science Program Organisation
- 2005 Ian Potter Foundation Travel Fellowship
- 2004 Australian Academy of Sciences Research Award
- 2003 SWISS-PROT/European Bioinformatics Institute Visiting Fellowship
- 2003 Australian Academy of Science Early Career Award
- 2003 'Fresh Science' Finalist, National Science Week
- 2003 Science Meets Parliament Invitee
- 2000 University of Queensland Graduate School Research Travel Award
- 1997-2000 University of Queensland Postgraduate Research Scholarship
- 1997-2000 International Postgraduate Research Scholarship

- 1997-2000 IMB (Centre for Drug Design & Development) Postgraduate Research Scholarship
- 1991-1995 Presidential Scholarship, Portland State University

## RESEARCH GRANTS AWARDED

**Total Funding Received: \$ 2.7 million**

### Australian Research Council (ARC) Project Grants Total: \$1,085,000

Year	Project Title	Total	BGF
2010 - 2012	<i>Toxinology of Australia's lesser known venomous snakes</i> <b>Chief Investigator.</b> Co-investigator: Wayne Hodgson	\$171,000	\$111,000
2007-2011	<i>Evolutionary venomics: Venom system diversification in the animal kingdom.</i> <b>Chief Investigator.</b> Co-investigators: Wayne Hodgson; Janette Norman	\$715,000	\$680,000
2006-2008	<i>Modern reptiles with ancient toxins: the molecular origin and evolution of novel bioactive proteins from squamate dental glands.</i> <b>Sole Investigator</b>	\$145,000	\$145,000
2004-2006	<i>Molecular evolution and toxinology of colubrid snake venom toxins.</i> <b>Chief Investigator.</b> Co-investigators: Wayne Hodgson; Janette Norman	\$225,000	\$225,000

### Other External Research Grants Total: \$1,157,000

Year	Project Title	Total	BGF
2009 Australian Antarctic Division	<i>Venom on Ice.</i> <b>Chief Investigator.</b> Co-investigators: Wayne Hodgson; Janette Norman	\$23,500	\$23,500
2008 Herman Slade Foundation	<i>Venom Evolution in Cephalopods</i> <b>Chief Investigator.</b> Co-investigators: Andy Hill, Wayne Hodgson, Denis Scanlon, Janette Norman	\$90,000	\$90,000
2008 Australian Antarctic Division	<i>Venom on Ice.</i> <b>Chief Investigator.</b> Co-investigators: Wayne Hodgson; Janette Norman	\$5,500	\$5,500
2007 Australian Antarctic Division	<i>'Venom on Ice' International Polar Year field research support</i> <b>Chief Investigator.</b> Co-investigators: Wayne Hodgson; Janette Norman	\$550,000	\$550,000
2007 ANZ Charitable Trusts	<i>Drugs from Dragons: Novel bioactive peptides from lizard venoms</i> <b>Chief Investigator.</b> Co-investigator: Wayne Hodgson	\$15,000	\$15,000
2007 CASS Foundation	<i>Fish venoms: Evolution of variability in venom composition and how this influences first aid and medical treatment.</i> <b>Chief Investigator.</b> Co-investigators: Wayne Hodgson; Janette Norman	\$60,000	\$54,000
2007 DEST-FAST ISL	<i>Unlocking the secrets of the dragon's venom</i> <b>Chief Investigator.</b> Co-investigator: Janette Norman. Overseas partner investigator: Dr. Nicolas Vidal	\$38,400	\$19,200
2006-2008 APSF	<i>Stings, barbs and slime: molecular evolution of fish venoms</i> <b>Chief Investigator.</b> Co-investigators: Wayne Hodgson; Janette Norman	\$39,000	\$39,000
2006 CASS Foundation	<i>The biodiversity of biologically active molecules from the venoms of medically important Australian snakes</i> <b>Sole Investigator</b>	\$38,000	\$38,000
2004-2006 APSF	<i>Molecular phylogeny, evolution and conservation status of the Acanthophis (death adders) and Pseudechis (black snakes) genera of Australian Elapidae snakes</i> <b>Sole Investigator</b>	\$45,000	\$45,000
2004-2006	University of Western Australia Postdoctoral Fellowship (Declined in order to take up an ARC APD fellowship and position of Deputy Director of the Australian Venom Research Unit.)	\$195,000	\$195,000
2001-2004 APSF	<i>Toxinology of Australian sea snakes.</i> <b>Chief Investigator.</b> Co-investigator: Ken Winkel	\$45,000	\$45,000
2001-2004 Underwater World	<i>Toxinology of Australian sea snakes</i> <b>Chief Investigator.</b> Co-investigator: Ken Winkel	\$25,000	\$25,000

### University of Melbourne Research Grants Total: \$72,300

Year	Project title	Total	BGF
2000-2002 Australian Geographic Society	<i>Biodiversity of Australian elapid snakes.</i> <b>Sole Investigator</b>	\$3,000	\$3,000

2004 CSIRO Collaborative Research Grant	<i>From toxins to therapeutics: Study of novel toxins from snake venoms.</i> <b>Chief Investigator.</b> Collaborator: Kim Fung	\$22,000	\$15,000
2004 Collaborative Research Grant	From toxins to therapeutics: Study of novel toxins from snake venoms. <b>Chief Investigator.</b> Collaborators: Paul Monagle; Vera Ignjatovic (Murdoch Childrens Hospital)	\$15,000	\$13,500
2004 Early Career Grant	<i>Molecular evolution and toxinology of colubroid snake venoms</i> <b>Sole Investigator</b>	\$23,800	\$23,800
2001	<i>Toxinology of Australian sea snakes</i> <b>Chief Investigator.</b> Co-Chief Investigator Ken Winkel	\$11,500	\$11,500

*Travel Grants, Awards and Scholarships Total: \$252,540*

<b>Year</b>	<b>Title</b>	<b>Total</b>
2007 Australian Academy of Science	<i>JG Russell Award</i>	\$4,000
2007 Universitas 21	<i>Edward Clarence Dyason Fellowship</i>	\$7,000
2007 Diird Vic Gov	<i>Victoria Fellowship</i>	\$18,000
2006 NOW	<i>Visiting Researcher Award</i>	\$17,000
2006 Australian Academy of Science	<i>Scientific Visits to Europe</i>	\$10,500
2006 CASS Foundation	<i>Travel Grant</i>	\$5,000
2005 International Human Frontiers Science Program Organisation	<i>Short-Term Fellowship</i>	\$7,500
2005 CASS Foundation	<i>Travel Grant</i>	\$5,000
2005 Ian Potter Foundation	<i>Travel Grant</i>	\$3,000
2004 Australian Academy of Science	<i>Scientific Visits to Europe for Young Australian Researchers</i>	\$5,040
2004 Journal of Molecular Evolution	<i>Zuckerlandl Prize - Awarded for the best paper in a calendar year</i>	\$7,500
2004 CASS Foundation	<i>Postdoctoral Travel Award</i>	\$3,500
2004 European Bioinformatics Institute	<i>Visiting Fellowship</i>	\$3,000
2000 University of Queensland Graduate School	<i>Travel Award</i>	\$5,000
1997-2000 University of Queensland	International Postgraduate Research Scholarship	\$48,000
1997-2000 University of Queensland	Postgraduate Research Scholarship	\$48,000
1997-2000 IMB	Postgraduate Research Scholarship	\$21,000
1995 American Foundation for Aging Research	Undergraduate Award	\$1,500
1991-1995 Portland State University	Presidential Scholarship	\$40,000

#### **PATENTS**

PCT US 60/588243 UNITED STATES 2004 Paul Alewood, Geoff Head and Bryan Fry "Novel natriuretic peptides from snake venoms: Proteinaceous compounds and uses there for" Pending: Uni of Queensland/Baker Heart Research Institute

#### **PUBLICATIONS**

Citations (699) and h-index (15) as of 28/10/09

42. **Fry BG**, Roelants K, Winter K, Hodgson WC, Griesman L, Kwok HF, Scanlon D, Karas J, Shaw C, Wong L, Berg M, Norman J (2009) Novel venom proteins produced by differential domain-expression strategies in Beaded Lizards and Gila Monsters (genus *Heloderma*). *Molecular Biology and Evolution* (In-press). **Impact factor 7.8**
41. **Fry BG**, Wroe S, Teeuwisse W, van Osch MJP, Moreno K, Ingle J, McHenry C, Ferrara T, Clausen P, Scheib H, Winter KL, Greisman L, Roelants K, van der Weerd L, Clemente CJ, Giannakis E, Hodgson WC, Luz S, Martelli P, Krishnasamy K, Kochva E, Kwok HF, Scanlon D, Karas J, Citron DM, Goldstein EJC, Mcnaughtan JE, Norman JA (2009) A central role for venom in predation by *Varanus komodoensis* (Komodo Dragon) and the extinct giant *Varanus (Megalania) prisca*. *Proceedings of the National Academy of Science* **106**(22):8969-8974. **Impact factor: 9.8**
40. **Fry BG**, Vidal N, Van der Weerd L, Kochva E, Renjifo C. (2009) Evolution and diversification of the Toxicofera reptile venom system. *Journal of Proteomics* **72**:127-136 **Impact factor: 3 Citations 1**
39. **Fry BG**, Roelants K, Norman J, King G, Tyndal J, Lewis R, Norton R, Renjifo C, Rodriguez de la Vega RC. (2009) Toxicogenomic multiverse: convergent recruitment of proteins into animal venoms *Annual Reviews: Genomics and Human Genetics* (In-press). **Impact factor: 10.7**

38. **Fry BG**, Roelants K, Norman J (2009) Tentacles of venom: Toxic protein convergence in the Kingdom Animalia. *Journal of Molecular Evolution* **68**(4):311. **Impact factor: 3 Citations 1**
37. Vonk FJ, Admiraal JF, Jackson K, Reshef R, de Bakker MA, Vanderschoot K, van den Berge I, van Atten M, Burgerhout E, Beck A, Mirtschin PJ, Kochva E, Witte F, **Fry BG**, Woods AE, Richardson MK. (2008) Evolutionary origin and development of snake fangs. *Nature*. **454**(7204):630-3. **Impact factor: 32.182 Citations 6**
36. **Fry BG**, Scheib H, van der Weerd L, Young B, McNaughtan J, Ramjan SFR, Vidal N, Poelmann RE, Norman JA (2008) Evolution of an arsenal: structural and functional diversification of the venom system in the advanced snakes (Caenophidia). *Molecular & Cellular Proteomics* **7**(2):215-46 **Impact factor: 9.6; Citations 22.**
35. Thompson GG, Clemente CJ, Withers PC, **Fry BG**, Norman JA (2008) Is body shape of varanid lizards linked with retreat choice? *Australian Journal of Zoology* **56**(5):351-362 **Impact factor: 1 Citations 2**
34. Steuten J, Winkel K, Carrol T, Williamson N, Ignjatovic V, Fung K, Purcell T, **Fry BG** (2007) The molecular basis of cross-reactivity in the Australian sVDK (snake venom detection kit) *Toxicon* . **50**(8):1041-52. **Impact factor: 2.509**
33. Kuruppu S, Robinson S, Hodgson WC, **Fry BG** (2007) The *in vitro* neurotoxic and myotoxic effects of the venom from the Suta genus (Curl Snakes) of elapid snakes. *Basic Clin. Pharmacol.* **101**(6):407-10. **Impact factor: 1.788**
32. **Fry BG**, Vidal N, Norman JA, Vonk FJ, Scheib H, Ramjan R, Kuruppu S, Fung K, Hedges SB, Richardson MK, Hodgson WC, Ignjatovic V, Summerhayes R and Kochva E (2006) Early evolution of the venom system in lizards and snakes. *Nature* **439**(7076):509-632; Advance online publication November 17, 2005 doi:10.1038/nature04328. **Impact factor: 32.182; Citations 93.** Cited by Faculty of 1000.
31. Pahari S, Bickford D, **Fry BG**, Kini RM. (2006) Expression pattern of three-finger toxin and phospholipase A2 genes in the venom glands of two sea snakes, *Lapemis curtus* and *Acalyptophis peronii*: comparison of evolution of these toxins in land snakes, sea kraits and sea snakes. *BMC Evol Biol.* **7**:175. **Impact factor: 4.09; Citations 4.**
30. Pawlak J, Mackessy SP, **Fry BG**, Bhatia M, Mourier G, Fruchart-Gaillard C, Servent D, Menez R, Stura E, Menez A, Kini RM. (2006) Denmotoxin: a three-finger toxin from colubrid snake *Boiga dendrophila* (mangrove catsnake) with bird-specific activity. *J Biol Chem.* **Impact factor: 7.385; Citations 16.**
29. Nair DG, **Fry BG**, Alewood P, Kumar PP, Kini RM. (2006) "Antimicrobial activity of Omwaprin, a new member of Waprin family of snake venom proteins." *Biochem J* **402**:93. **Impact factor: 4.224; Citations 12**
28. Williams D, Wuster W, **Fry BG**. (2006) "The good, the bad and the ugly: Australian snake taxonomists and a history of the taxonomy of Australia's venomous snakes." *Toxicon.* **48**(7):919-30. Epub 2006 Jul 14. **Impact factor: 1.862; Citations 2.**
27. **Fry, BG** (2005) "From genome to 'venome': Molecular origin and evolution of the snake venom proteome inferred from phylogenetic analysis of toxin sequences and related body proteins." *Genome Research* **15**:403-420. **Impact factor: 10.382; Citations 79.**
26. Li M, **Fry BG**, Kini RM (2005) "Putting the brakes on snake venom evolution: the unique molecular evolutionary patterns of *Aipysurus eydouxii* (Marbled sea snake) phospholipase A<sub>2</sub> toxins." *Molecular Biology and Evolution* **22**(4):934-941. **Impact factor: 6.355; Citations 17.**
25. **Fry BG**, Wickramaratana J, Lemme S, Beuve A, Garbers D, Hodgson WC, Alewood P (2005) "Novel natriuretic peptides from the venom of the inland taipan (*Oxyuranus microlepidotus*): Isolation, chemical and biological characterization" *Biochemical and Biophysical Research Communications* **327**:1011-1015. **Impact factor: 2.904; Citations 13**
24. Li M, **Fry BG**, Kini RM (2005) "Eggs only diet: the shift in preferred prey by the Marbled sea snake (*Aipysurus eydouxii*) resulting in a loss of postsynaptic neurotoxicity." *Journal of Molecular Evolution* **60**(1):81-9. **Impact factor: 2.751; Citations 17.**
23. Pung YF, Kumar SV, Rajagopalan N, **Fry BG**, Kumar PP, Kini RM (2005) "Ohanin, a novel protein from king cobra venom: Its cDNA and genomic organization" *Gene* **371**(2):246-56. **Impact factor: 2.705; Citations 6.**
22. Lumsden NG, **Fry BG**, Ventura S, Kini RM, Hodgson WC. (2005) "Pharmacological characterisation of a neurotoxin from the venom of *Boiga dendrophila* (Mangrove snake)." *Toxicon* **45**(3):329-334. **Impact factor: 1.862; Citations 11.**
21. Kuruppu S., **Fry BG**, Hodgson WC (2005) "Presynaptic neuromuscular activity of venom from the Brown-Headed Snake (*Glyphodon tristis*)" *Toxicon* **45**(3):383-388. **Impact factor: 1.862; Citations 4.**
20. Ramasamy S, **Fry BG**, Hodgson WC (2005) "The neurotoxic effects of venoms from seven species of Australasian black snakes (*Pseudechis*): efficacy of CSL black and CSL tiger snake antivenoms" *Clin Exp Pharmacol and Physiol* **32**(1-2):7-12. **Impact factor: 1.672; Citations 8**
19. Kuruppu S, **Fry BG**, Hodgson WC (2005) "*In vitro* neurotoxic and myotoxic effects of the venom from the Black Whip Snake (*Demansia papuensis*)" *Clin Exp Pharmacol and Physiol* **32**:7. **Impact factor: 1.672; Citations 5.**
18. Westhoff G, **Fry BG**, Bleckmann H (2005) "Sea snakes (*Lapemis curtus*) are sensitive to low-amplitude water motions." *Zoology* **108**:195-200. **Impact factor: 1.092; Citations 2.**
17. **Fry BG**, Wüster W (2004) "Assembling an arsenal: Origin and evolution of the snake venom proteome inferred from phylogenetic analysis of toxin sequences". *Molecular Biology and Evolution* **21**(5): 870-883. **Impact factor: 6.335; Citations 67.**

16. Wüster W, Dumbrell AJ, Hay C, Pook CE, Williams DJ, Fry BG (2004) "Snakes across the Strait: Trans-Torresian Phylogeographic Relationships in Three Genera of Australasian Snakes (Serpentes: Elapidae: *Acanthophis*, *Oxyuranus* and *Pseudechis*)" *Molecular Phylogenetics and Evolution* **34**: 1- 14. **Impact factor: 4.213; Citations 19.**
15. Wickramaratna J, Fry BG, Loiacono RE, Aguilar MI, Hodgson WC (2004) "Isolation and characterization at cholinergic nicotinic receptors of a neurotoxin from the venom of the *Acanthophis* sp. seram death adder." *Biochemical Pharmacology* **68**:383-394. **Impact factor: 3.436; Citations 10**
14. Lumsden NG, Fry BG, Ventura S, Kini RM, Hodgson WC (2004) The *in vitro* and *in vivo* pharmacological activity of *Boiga dendrophila* (Mangrove Catsnake) venom. *Autonomic and Autacoid Pharmacology* **24**:107-113. **Impact factor: 2.286; Citations 9.**
13. Lumsden NG, Fry BG, Kini RM, Hodgson WC (2004) "*In vitro* neuromuscular activity of 'colubrid' snake venoms: clinical and evolutionary implications." *Toxicon* **43**(7):819-827. **Impact factor: 1.862; Citations 9.**
12. Chetty N, Du A, Hodgson WC, Winkel K and Fry BG (2004) "A pharmacological examination of Indo-Pacific sea-snake venoms: efficacy of antivenom." *Toxicon* **44**(2):193-200. **Impact factor: 1.862; Citations 7.**
11. Wickramaratna JC, Fry BG, Hodgson WC. (2003) "Species dependent variations in the *in vitro* myotoxicity of death adder (*Acanthophis*) venoms." *Toxicological Sciences* **74**(2): 352-360. **Impact factor: 3.391; Citations 10.**
10. Wickramaratna JC, Fry BG, Aguilar MI, Kini RM, Hodgson WC (2003) "Isolation and pharmacological characterisation of a phospholipase A<sub>2</sub> myotoxin from the venom of the Irian Jayan death adder (*Acanthophis rugosus*)" *British Journal of Pharmacology* **138**, 333 – 342 **Impact factor: 3.325; Citations 11.**
9. Fry BG, Lumsden N, Wüster W, Wickramaratna J, Hodgson WC, Kini RM. (2003) "Isolation of a neurotoxin (alpha-colubritoxin) from a 'non-venomous' colubrid: evidence for early origin of venom in snakes. *Journal of Molecular Evolution* **57**(4):446-452. **Impact factor: 2.751; Citations 42.**
8. Fry BG, Wuster W, Kini RM., Brusich V, Khan A, Venkataraman D, Rooney AP. (2003) "Molecular evolution and phylogeny of elapid snake venom three finger toxins" *Journal of Molecular Evolution* **57**(1):110-129. **Impact factor: 2.751; Citations 53.**
7. Fry BG, Wüster W, Ramjan SFR, Jackson T, Martelli P, Kini RM. (2003) "Analysis of Colubroidea snake venoms by liquid chromatography with mass spectrometry: evolutionary and toxinological implications." *Rapid Communications in Mass Spectrometry* **17**: 2047-2062. **Impact factor: 2.75; Citations 42.**
6. Hodgson WC, Eriksson CO, Alewood PF, Fry BG. (2003) A comparison of the *in vitro* neuromuscular activity of venom from three Australian snakes, *Hoplocephalus stephensi*, *Austrelaps superbus* and *Notechis scutatus*: efficacy of tiger snake antivenom. *Clinical and Experimental Pharmacology and Physiology* **30**(3):127-132. **Impact factor: 1.672; Citations 11**
5. Fry BG, Wickramaratna JC, Hodgson WC, Winkel K, Wuster W. (2003) "Effectiveness of snake antivenom: species and regional venom variation and its clinical impact" *Journal of Toxicology-Toxin Reviews*. **22**, No. 1, pp. 23–34 **Impact factor: 0.63; Citations 17.**
4. Fry BG, Wickramaratna JC, Hodgson WC, Alewood PF, Kini RM, Ho H, Wuster W. (2002) "Electrospray liquid chromatography/mass spectrometry fingerprinting of *Acanthophis* (death adder) venoms: taxonomic and toxinological implications" *Rapid Communications in Mass Spectrometry* **16**:600-608. **Impact factor: 2.75; Citations 30.**
3. Fry BG, Wickramaratna JC, Jones A, Alewood P, Hodgson WC (2001) "Species and regional variations in the effectiveness of antivenom against the *in vitro* neurotoxicity of death adder (*Acanthophis*) venoms." *Toxicology and Applied Pharmacology* **175**, 140–148. **Impact factor: 2.618; Citations 17.**
2. Winkel KD, Fry BG, Hawdon GM, Carroll T. (2001) "Black snake, brown snake or mistake? A cautionary tale." *Australian Family Physician*. 2001 **30**(9):832; **Citations 1.**
1. Fry BG (1999) "Structure-function properties of venom from Australian elapids." *Toxicon* **37**(1):11-32. **Impact factor: 1.862; Citations 36.**

## Contribution to academic, institutional and public life

### Services to the Research Community

- Invitation/selection as speaker or session chair of workshops, national and international conferences.
- Reviewer of research grant applications for NH&MRC, ARC, National University of Singapore, NERC (UK), National Science Foundation (USA), European Science Foundation.
- Reviewer of manuscripts (~10 per year) submitted to reputable international journals such as *Nature*, *Molecular Biology and Evolution*, *DNA Research*, *Journal of Molecular Evolution*, *PLoS Medicine*, *Proteomics*, *Rapid Communications in Mass Spectrometry* and *Medical Journal of Australia*.
- External examiner of PhD and M.Sc theses: University of Technology Sydney (2), University of Queensland (1), Queensland University of Technology (1), James Cook University (1), National University of Singapore (2).
- Associate Editor for the *Journal of Molecular Evolution* (2005 – current)

### Administration and Community Services

- Deputy Director of the Australian Venom Research Unit 2003-2006.
- Guest Lecturer at GTAC, University High School, Melbourne
- Member of the Australian Natural History Medallion Award Committee

### Conferences and seminars

#### *Session Chair of International Conferences*

- 2008 International Society for Toxinology  
2008 World Congress of Herpetology  
2007 Venom Week, Tuscon Arizona (chairperson, Venom evolution session)

#### *Invited Guest Speaker in National and International Conferences*

- 2009 Venom Week, New Mexico USA (Plenary Speaker)  
2009 ComBio  
2008 Lorne Protein Conference  
2008 Lorne Genome Conference  
2007 Venom Week, Tuscon USA (Plenary Speaker, 2 talks)  
2007 International Society for Toxinology, Queretaro Mexico (Plenary Speaker)  
2006 International Society for Toxinology, Glasgow, Scotland  
2005 Snakebites in the New Millennium Conference, Nebraska USA (Plenary Speaker, 2 talks)  
2005 Society of European Herpetologists, Bonn Germany  
2004 Squamate Conference: In Honour of Garth Underwood. Linnean Society, London  
2002 International Society for Toxinology, Cairns Australia

#### *Invited seminar speaker at overseas institutions*

- 2008 Cambridge University  
2008 Queens University, Belfast  
2008 University of Liverpool  
2007 Arizona State University  
2007 National Autonomous University of Mexico  
2006 Muséum National d'Histoire Naturelle, France  
2006 Stanford University, USA  
2005 Bonn University, Germany  
2005 Leiden University, The Netherlands  
2005 Swiss Institute for Bioinformatics  
2005 Harvard University, USA  
2005 Penn State University, USA  
2005 University of Chicago, USA  
2005 Lewis & Clark College, USA  
2004 European Bioinformatics Institute, UK

#### *Invited seminar speaker at Australian institutions*

- 2008 University of Queensland  
2006 CSIRO  
2006 Monash University  
2006 Bio21, University of Melbourne  
2006 Zoology, University of Melbourne  
2005 University of Sydney  
2005 Genetics, University of Melbourne  
2004 University of Western Australia

### Society Memberships

- Australian Society of Herpetologists
- Genetics Society Australia
- International Society for Toxinology
- Society for Molecular Biology and Evolution

### Contributions to the scientific community

- Associate Editor of the Journal of Molecular Evolution.
- Member of the Australian Natural History Medallion Award Committee

Contributions of research expertise to the general community

- Regular guest Lecturer at Gene Technology Access Centre, University High.
- Co-host of 'Einstein a Go-Go' on RRR radio 2002-2005.
- Regularly and widely featured in international press and media for my research achievements.
- 2004 Australian Science Festival *Featured Presenter 'Vital Venom'; Rated by public as the best exhibit/speaker of the week long festival.*
- 2003 Science Meets Parliament *Invitee*
- 2003 'Fresh Science' competition, National Science Week *Finalist*

Administration at the Faculty/Departmental Level

- Deputy Director of the Australian Venom Research Unit 2003-2006.

Contribution to the internationalisation initiatives of the University of Melbourne

- Co-supervision of students at Leiden University, The Netherlands and the Norwegian University of Science and Technology.
- In addition to my collaborative links in the US Europe, I established the collaborative links with researchers in a U21 member university: The Swire Institute of Marine Science (SWIMS), The University of Hong Kong, to work with Dr. Gray A. Williams and Dr. Cynthia Yau.
- I have assessed research grant applications for the National University of Singapore, the National Science Foundation (USA) and NEERC (UK). Moreover, I have served as external examiner of theses for the National University of Singapore.

Contributions of professional expertise to the community

- Featured presenter by the Australian Research Council as a newly awarded QEII Fellow during the grants announcement in October 2006
- Member of the Australian Natural History Medallion Award Committee