

Associate Professor Bryan Grieg Fry

CURRICULUM VITAE

MAILING ADDRESS

Associate Professor Bryan G Fry
Venom Evolution Laboratory
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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

- 2011- current Associate Professor, School of Biological Sciences, University of Queensland
- 2011 – 2015 Future Fellow, School of Biological Sciences, University of Queensland
- 2007-2011 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:

- 2010 Fenner Medal, Australian Academy of Science
- 2009 Woodward Medal, University of Melbourne
- 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

RESEARCH GRANTS AWARDED

Total Funding Received: >\$6 million

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

SELECTED PUBLICATIONS

1. Casewell NR, Visser JC, Baumann K, Dobson J, Han H, Kuruppu S, Morgan M, Romilio A, Weisbecker V, Mardon K, Ali SA, Debono J, Koludarov I, Que I, Bird GC, Cooke GM, Nouwens A, Hodgson WC, Wagstaff SC, Cheney KL, Vetter I, van der Weerd L, Richardson MK, **Fry BG**. The evolution of fangs, venom and mimicry systems in blenny fishes. *Current Biology*. 27(8):1184-1191. **Impact factor: 8.85. Citations: 4.**
2. Jouiaei M, Sunagar K, Gross AF, Scheib H, Alewood PF, Moran Y, **Fry BG** (2015) Evolution of an ancient venom: recognition of a novel family of cnidarian toxins and the common evolutionary origin of sodium and potassium neurotoxins in sea anemone. *Molecular Biology & Evolution* 32(6): 1598-1610. **Impact factor: 10.353. Citations: 24.**
3. Undheim EAB, Jones A, Clauser KR, Holland JW, Pineda SS, King GF, **Fry BG** (2014) Clawing through evolution: Toxin diversification and convergence in the ancient lineage Chilopoda (Centipedes). *Molecular Biology & Evolution* 31(8): 2124-2148. **Impact factor: 10.353. Citations: 32.**
4. Casewell N, Wüster W, Vonk F, Harrison R, **Fry BG** (2013) Complex cocktails: the evolutionary novelty of venoms. *Trends in Ecology and Evolution* 28(4):219-29 **Impact factor: 14.4. Citations: 191.**
5. **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: 9.737. Citations: 53.**
6. **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* 10:483-511. **Impact factor: 9.5. Citations: 300.**
7. ***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):584-588. **Impact factor: 38.597. Citations: 293. Cited by Faculty of 1000.**
8. **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: 13.608. Citations: 251.**
9. **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: 7.251. Citations: 176.**
10. **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: 10.353. Citations: 151.**