Associate Professor Bryan Grieg Fry

CURRICULUM VITAE

MAILING ADDRESS

Associate Professor Bryan G Fry
ARC Future Fellow
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 – present 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

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: $2,056,000

Year	*Project Title*	*Total*	*BGF*
2011-2014	*Venom on Ice: Adaptive evolution of cephalopod venoms* **Sole Investigator**	$800,000	$800,000
2010 – 2012	*Toxinology of Australia's lesser known venomous snakes* **Chief Investigator**. Co-investigator: Wayne Hodgson	$171,000	$111,000
2007-2011	*Evolutionary venomics: Venom system diversification in the animal kingdom.* **Chief Investigator**. Co-investigators: Wayne Hodgson; Janette Norman	$715,000	$680,000
2006-2008	*Modern reptiles with ancient toxins: the molecular origin and evolution of novel bioactive proteins from squamate dental glands.* **Sole Investigator**	$145,000	$145,000
2004-2006	*Molecular evolution and toxinology of colubrid snake venom toxins.* **Chief Investigator**. 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	*Venom on Ice.* **Chief Investigator**. Co-investigators: Wayne Hodgson; Janette Norman	$23,500	$23,500
2008 Herman Slade Foundation	*Venom Evolution in Cephalopods* **Chief Investigator**. Co-investigators: Andy Hill, Wayne Hodgson, Denis Scanlon, Janette Norman	$90,000	$90,000
2008 Australian Antarctic Division	*Venom on Ice.* **Chief Investigator**. Co-investigators: Wayne Hodgson; Janette Norman	$5,500	$5,500
2007 Australian Antarctic Division	*'Venom on Ice' International Polar Year field research support* **Chief Investigator**. Co-investigators: Wayne Hodgson;	$550,000	$550,000

	Janette Norman		
2007 ANZ Charitable Trusts	*Drugs from Dragons: Novel bioactive peptides from lizard venoms* **Chief Investigator**. Co-investigator: Wayne Hodgson	$15,000	$15,000
2007 CASS Foundation	*Fish venoms: Evolution of variability in venom composition and how this influences first aid and medical treatment.* **Chief Investigator**. Co-investigators: Wayne Hodgson; Janette Norman	$60,000	$54,000
2007 DEST-FAST ISL	*Unlocking the secrets of the dragon's venom* **Chief Investigator**. Co-investigator: Janette Norman. Overseas partner investigator: Dr. Nicolas Vidal	$38,400	$19,200
2006-2008 APSF	*Stings, barbs and slime: molecular evolution of fish venoms* **Chief Investigator**. Co-investigators: Wayne Hodgson; Janette Norman	$39,000	$39,000
2006 CASS Foundation	*The biodiversity of biologically active molecules from the venoms of medically important Australian snakes* **Sole Investigator**	$38,000	$38,000
2004-2006 APSF	*Molecular phylogeny, evolution and conservation status of the Acanthophis (death adders) and Pseudechis (black snakes) genera of Australian Elapidae snake*s **Sole Investigator**	$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	*Toxinology of Australian sea snakes.* **Chief Investigator**. Co-investigator: Ken Winkel	$45,000	$45,000
2001-2004 Underwater World	*Toxinology of Australian sea snakes* **Chief Investigator**. 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	*Biodiversity of Australian elapid snakes.* **Sole Investigator**	$3,000	$3,000
2004 CSIRO Collaborative Research Grant	*From toxins to therapeutics: Study of novel toxins from snake venoms.* **Chief Investigator**. Collaborator: Kim Fung	$22,000	$15,000
2004 Collaborative Research Grant	From toxins to therapeutics: Study of novel toxins from snake venoms. **Chief Investigator**. Collaborators: Paul Monagle; Vera Ignjatovic (Murdoch Childrens Hospital)	$15,000	$13,500
2004 Early Career Grant	*Molecular evolution and toxinology of colubroid snake venoms* **Sole Investigator**	$23,800	$23,800
2001	*Toxinology of Australian sea snakes* **Chief Investigator**. Co-Chief Investigator Ken Winkel	$11,500	$11,500

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

Year	**Title**	**Total**
2010 Australian Academy of Science	Scientific Visits to Europe	$10.500

2010 Australian Academy of Science	*JG Russell Award*	$4,000
2007 Universitas 21	*Edward Clarence Dyason Fellowship*	$7,000
2007 Diird Vic Gov	*Victoria Fellowship*	$18,000
2006 NWO	*Visiting Researcher Award*	$17,000
2006 Australian Academy of Science	*Scientific Visits to Europe*	$10,500
2006 CASS Foundation	*Travel Grant*	$5,000
2005 International Human Frontiers Science Program Organisation	*Short-Term Fellowship*	$7,500
2005 CASS Foundation	*Travel Grant*	$5,000
2005 Ian Potter Foundation	*Travel Grant*	$3,000
2004 Australian Academy of Science	*Scientific Visits to Europe for Young Australian Researchers*	$5,040
2004 Journal of Molecular Evolution	*Zuckerkandl Prize - Awarded for the best paper in a calendar year*	$7,500
2004 CASS Foundation	*Postdoctoral Travel Award*	$3,500
2004 European Bioinformatics Institute	*Visiting Fellowship*	$3,000
2000 University of Queensland Graduate School	*Travel Award*	$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

1. Casewell et al. & **Fry BG**. The evolution of fangs, venom and mimicry systems in blenny fishes. *Current Biology*. (In press. Accepted 22/2/17). **Impact factor:** 9.57.
2. *H. Han, et al., **Fry BG**[#], Kuruppu S[#]. (2017) The cardiovascular and neurotoxic effects of the venoms of six bony and cartilaginous fish species. *Toxins* 9(2), 67; doi:10.3390/toxins9020067 [#]joint corresponding authors **Impact factor:** 3.6. **Citations:** 0.
3. *Walker AA, Madio B, Jin J, Undheim EA, Fry BG, King GF. (2017) Melt with this kiss: Paralysing and liquefying venom of the assassin bug *Pristhesancus plagipennis* (Hemiptera: Reduviidae). *Mol Cell Proteomics*. pii: mcp.M116.063321. **Impact factor:** 5.9. **Citations:** 0.
4. *Jackson TN, et al., **Fry BG**. (2016) Rapid Radiations and the Race to Redundancy: An Investigation of the Evolution of Australian Elapid Snake Venoms. *Toxins* (Basel). 8(11). pii: E309. **Impact factor:** 3.6. **Citations:** 2.
5. *Maddock ST, Childerstone A, **Fry BG**, Williams DJ, Barlow A, Wüster W. (2016) Multi-locus phylogeny and species delimitation of Australo-Papuan blacksnakes (*Pseudechis* Wagler, 1830: Elapidae: Serpentes). *Mol Phylogenet Evol*. 107:48-55. doi: 10.1016/j.ympev.2016.09.005. **Impact factor:** 3.8. **Citations:** 0.
6. Viper Venom Botox: The Molecular Origin and Evolution of the Waglerin Peptides Used in Anti-Wrinkle Skin Cream. Debono J, Xie B, Violette A, Fourmy R, Jaeger M, Fry BG. *J Mol Evol*. [Epub ahead of print]

7. Jackson TN, Koludarov I, Ali SA, Dobson J, Zdenek CN, Dashevsky D, Op den Brouw B, Masci PP, Nouwens A, Josh P, Goldenberg J, Cipriani V, Hay C, Hendrikx I, Dunstan N, Allen L, Fry BG. (2016) Rapid Radiations and the Race to Redundancy: An Investigation of the Evolution of Australian Elapid Snake Venoms. *Toxins* (Basel). 8(11). pii: E309.
8. Yang DC, Deuis JR, Dashevsky D, Dobson J, Jackson TN, Brust A, Xie B, Koludarov I, Debono J, Hendrikx I, Hodgson WC, Josh P, Nouwens A, Baillie GJ, Bruxner TJ, Alewood PF, Lim KK, Frank N, Vetter I, Fry BG (2016) The Snake with the Scorpion's Sting: Novel Three-Finger Toxin Sodium Channel Activators from the Venom of the Long-Glanded Blue Coral Snake (*Calliophis bivirgatus*). *Toxins* (Basel). 8(10). pii: E303.
9. Jackson TN, Fry BG (2016) A Tricky Trait: Applying the Fruits of the "Function Debate" in the Philosophy of Biology to the "Venom Debate" in the Science of Toxinology. *Toxins* (Basel). 8(9). pii: E263. doi: 10.3390/toxins8090263.
10. Debono J, Cochran C, Kuruppu S, Nouwens A, Rajapakse NW, Kawasaki M, Wood K, Dobson J, Baumann K, Jouiaei M, Jackson TN, Koludarov I, Low D, Ali SA, Smith AI, Barnes A, Fry BG.(2016) Canopy Venom: Proteomic Comparison among New World Arboreal Pit-Viper Venoms. *Toxins* (Basel). 2016 Jul 8;8(7). pii: E210. doi: 10.3390/toxins8070210.
11. Walker A, Undheim EA, Fry BG, Kalbacher H, Voelter W.Walker AA, Weirauch C, Fry BG, King GF. (2016) Venoms of Heteropteran Insects: A Treasure Trove of Diverse Pharmacological Toolkits. *Toxins* (Basel). 2016 Feb 12;8(2):43. doi: 10.3390/toxins8020043. Review
12. Ali SA, Alam M, Abbasi A, Undheim EA, Fry BG, Kalbacher H, Voelter W. (2016) Structure-Activity Relationship of Chlorotoxin-Like Peptides. *Toxins* (Basel). 2016 Feb 2;8(2):36. doi: 10.3390/toxins8020036
13. Reeks T, Lavergne V, Sunagar K, Jones A, Undheim E, Dunstan N, Fry B, Alewood PF (2015) Deep venomics of the *Pseudonaja* genus reveals inter- and intra-specific variation *J Proteomics*. 133:20-32. doi: 10.1016/j.jprot.2015.11.019.
14. Ukuwela KDB, Lee MSY, Rasmussen AR, de Silva A, Mumpuni, Fry BG, Ghezellou P, Rezaie-Atagholipour M, Sanders KL (2015) Evaluating the drivers of Indo-Pacific biodiversity: speciation and dispersal of sea snakes (Elapidae: Hydrophiinae). *Journal of Biogeography* 43(2): 243-255.
15. Undheim EAB, Fry BG, King GF (2015) Centipede Venom: Recent Discoveries and Current State of Knowledge/ *Toxins* 7(3): 679-704. **Impact factor** 2.7. **Citations** 0.
16. Reeks TA, Fry BG, Alewood PF (2015) Privileged frameworks from snake venom. *Cellular And Molecular Life Sciences* 72(10): 1939-1958. **Impact factor** 4.5. **Citations** 0.
17. Jouiaei M, Yanagihara AA, Madio B, Nevalainen TJ, Alewood PF, Fry BG (2015) Ancient Venom Systems: A Review on Cnidaria Toxins. *Toxins* 7(6): 2251-2271. **Impact factor** 2.7. **Citations** 0.
18. Undheim EAB, Grimm, LL, Low CF, Morgenstern D, Herzig V, Zobel-Thropp P, Pineda SS, Habib R, Dziemborowicz S, Fry BG, Nicholson GM, Binford GJ, Mobli M, King G (2015) Weaponization of a Hormone: Convergent Recruitment of Hyperglycemic Hormone into the Venom of Arthropod Predators. *Structure* 23(7): 1283-1292. **Impact factor** 5.6. **Citations**: 0.
19. Undheim EAB, Hamilton BR, Kurniawan N, Bowlay G, Cribb B, Merritt D, Fry BG, King GF, Venter D (2015) Production and packaging of a biological arsenal: do centipede venoms evolve under morphological constraints? *Proceedings of the National Academy of Science* 112(13): 4026-4031. **Impact factor** 9.737. **Citations** 0.
20. 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:** 0.
21. Jouiaei M, Casewell NR, Yanagihara AA, Nouwens A, Cribb BW, Whitehead D, Jackson TWN, Ali SA, Wagstaff SC, Koludarov I, Alewood PF, Hansen J, **Fry BG** (2015) Firing the sting: chemically induced discharge of cnidae reveals novel proteins and peptides from box jellyfish (*Chironex fleckeri*) venom. *Toxins* 7(3): 936-950. **Impact factor** 2.4**. Citations:** 0.

22. Ali SA, Jackson TNW, Casewell NR, Low DHW, Rossi S, Baumann K, Fathinia B, Visser J, Nouwens A, Hendrikx I, Jones A, **Fry BG*** (2015) Extreme venom variation in Middle Eastern vipers: a proteomics comparison of *Eristicophis macmahonii, Pseudocerastes fieldi* and *Pseudocerastes persicus*. *Journal of Proteomics* 116:106-13. **Impact factor** 4.088. **Citations** 0.
23. Baumann, K, Casewell NR, Ali, SA, Jackson TNW, Vetter I, Dobson JS, Cutmore SC, Nouwens A, Lavergne V, **Fry BG** (2014) A ray of venom: Combined proteomic and transcriptomic investigation of fish venom composition using barb tissue from the blue-spotted stingray (*Neotrygon kuhlii*). *Journal of Proteomics* 109: 188-198. **Impact factor** 4.088. **Citations** 0.
24. Koludarov I, Jackson TNW, Sunagar K, Nouwens A, Hendrikx I, **Fry BG** (2014) Fossilized Venom: The Unusually Conserved Venom Profiles of *Heloderma* Species (Beaded Lizards and Gila Monsters). *Toxins* 6(12): 3582-3595 . **Impact factor** 2.4. **Citations** 0.
25. Ukuwela KDB, de Silva A, Mumpuni, **Fry BG**, Sanders KL (2014) Multilocus phylogeography of the sea snake *Hydrophis curtus* reveals historical vicariance and cryptic lineage diversity. *Zoologica Scripta* 43(5): 472-484. **Impact factor:** 2.922. **Citations:** 0.
26. Undheim E, Sunagar K, Hamilton BR, Brust A, Jones A, Morales JR, Winnen B, Vetter I, Lewis RJ,,Venter D, Alewood P, **Fry BG*** and King GF*. (2014) Multifunctional Warheads: Diversification of the toxin arsenal of centipede venoms via novel multidomain transcripts. *Journal of Proteomics* 102:1-10. **Impact factor** 4.088. **Citations** 1. * = joint corresponding authors
27. Dutertre S, Jin AI, Vetter I, Hamilton B, Sunagar K, Lavergne, Dutertre V, **Fry BG**, Antunes A,Venter DJ, Alewood PF, Lewis RJ (2014) Evolution of separate predation and defense-evoked venoms in carnivorous snails. *Nature Communications* 5:3521. doi: 10.1038/ncomms4521 **Impact factor** 11.4 **Citations** 0.
28. Pineda SS, Sollod BL, Wilson D, Darling A, Sunagar K, Undheim EAB, Kely L, Antunes A, **Fry BG**, King GF (2014) Diversification of a single ancestral gene into a successful toxin superfamily in highly venomous Australian funnel-web spiders. *BMC Genomics.* 15(177). **Impact factor** 4.397. **Citations** 0.
29. 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** 4.
30. Sunagar K, Undheim EAB, Scheib H, Gren ECK, Cochran C, Person CE, Koludarov I, Kelln W, Hayes WK, King GF, Antunes A, **Fry BG** (2014) Intraspecific venom variation in the medically significant Southern Pacific Rattlesnake (*Crotalus oreganus helleri*): Biodiscovery, clinical and evolutionary implications. *Journal of Proteomics*. http://dx.doi.org/10.1016/j.jprot.2014.01.013 **Impact factor** 4.088. **Citations** 8.
31. Jesupret C, Baumann K, Jackson TNW, Ali SA, Yang DC, Greisman L, Kern L, Steuten J, Jouiaei M, Casewell NR, Undheim EA, Koludarov I, Debono J, Low DH, Rossi S, Panagides N, Winters K, Ignjatovic V, Summerhayes R, Jones A, Nouwens A, Dunstan N, Hodgson WC, Winkel KD, Monagle P, **Fry BG** (2014) Vintage venoms: Proteomic and pharmacological stability of snake venoms stored for up to eight decades. *Journal of Proteomics*. pii: S1874-3919(14)00014-1. **Impact factor** 4.088. **Citations** 0.
32. Jackson TN, Sunagar K, Undheim EA, Koludarov I, Chan AH, Sanders K, Ali SA, Hendrikx I, Dunstan N, **Fry BG**. (2013) Venom down under: dynamic evolution of Australian elapid snake toxins. *Toxins*. 5(12):2621-2655. **Impact factor** 2.129. **Citations** 2.
33. Sunagar K, Undheim EA, Chan AH, Koludarov I, Muñoz-Gómez SA, Antunes A, **Fry BG** (2013) Evolution stings: the origin and diversification of scorpion toxin peptide scaffolds. *Toxins*. 5(12):2456-2487. **Impact factor** 2.129. **Citations** 2.
34. Undheim EAB, Sunagar K, Herzig V, Kely L, Low DHW, Jackson TNW, Jones A, Kurniawan N, King GF, Ali SA, Antunes A, Ruder T, **Fry BG** (2013) Proteomics and transcriptomics investigation of the venom from the barychelid spider *Trittame loki* (Brush-Foot Trapdoor). *Toxins* 5(12), 2488-2503. **Impact factor** 2.129. **Citations** 2.

35. Sunagar K, **Fry BG**, Jackson TNW, Vidal N, Casewell N, Vasudevan K, Vasconcelos V, Antunes A (2013) Molecular Evolution of Vertebrate Neurotrophins: Co-Option of the Highly Conserved Nerve Growth Factor Gene into the Advanced Snake Venom Arsenal. *PLoS One* Nov 29;8(11):e81827. doi: 10.1371/journal.pone.0081827 **Impact factor** 3.730. **Citations** 4.
36. Sunagar K, Jackson TN, Undheim EA, Ali SA, Antunes A, **Fry BG**. (2013) Three-Fingered RAVERs: Rapid accumulation of variations in exposed residues of snake venom toxins. *Toxins*. 5(11):2172-208. **Impact factor** 2.129. **Citations** 6.
37. Lomonte B, Tsai WC, Ureña-Diaz JM, Sanz L, Mora-Obando D, Sánchez EE, **Fry BG**, Gutiérrez JM, Gibbs HL, Sovic MG, Calvete JJ. (2013) Venomics of New World pit vipers: Genus-wide comparisons of venom proteomes across *Agkistrodon*. *Journal of Proteomics*. doi:pii: S1874-3919(13)00551-4. **Impact factor** 4.088. **Citations** 7.
38. Terrat Y, Sunagar K, **Fry BG**, Jackson TN, Scheib H, Fourmy R, Verdenaud M, Blanchet G, Antunes A, Ducancel F. 2013 *Atractaspis aterrima* toxins: The first insight into the molecular evolution of venom in side-stabbers. *Toxins*. 5(11):1948-64. **Impact factor** 2.129. **Citations** 5.
39. Nekaris A, Moore RS, Rode J, **Fry BG** (2013) Mad, bad and dangerous to know: the biochemistry, ecology and evolution of slow loris venom Journal of Venomous Animals and Toxins including Tropical Diseases 19:21 doi:10.1186/1678-9199-19-21 **Impact factor** 0.6. **Citations** 6.
40. Ruder T, Ali SA, Ormerod K, Brust A, Manchadi MLR, Ventura S, Undheim EAB, Jackson TNW, Mercier AJ, King GF, Alewood PF, **Fry BG** (2013) Functional characterization on invertebrate and vertebrate tissues of tachykinin peptides from octopus venoms. *Peptides* 47:71-6. **Impact factor** 2.52. **Citations** 1.
41. Ali SA, Baumann K, Wood K, Mason S, Jackson NW, Undheim EAB, Koludarov I, Jones A, Nouwens A, Hendrikx I, **Fry BG** (2013) Proteomic comparison of *Hypnale hypnale* (Hump-Nosed Pit-Viper) and *Calloselasma rhodostoma* (Malayan Pit-Viper) venoms. *Journal of Proteomics*. 8;91:338-43. **Impact factor** 4.088. **Citations** 1.
42. Roelants K, **Fry BG**, Ye L, Norman JA, Stijlemans B, Kok P, Clynen E, Schoofs L, Cornelis P, Franky Bossuyt F. Origin and functional diversification of an amphibian defense peptide arsenal, *PLoS Genetics 2013;9(8):e1003662. doi: 10.1371/journal.pgen.1003662. Epub 2013 Aug 1*. **Impact factor** 8.517. **Citations** 1.
43. Low, DHW Sunagar K, Undheim EAB, Ali SA, Alagon AC, Ruder , Jackson TNW, Gonzalez SP, King GF, Jones A, Antunes A, **Fry BG** (2013) Dracula's children: Molecular evolution of vampire bat venom. *Journal of Proteomics*. **Impact factor** 4.088. **Citations** 14.
44. **Fry BG**, Undheim EAB, Ali SAA, Debono J, Scheib H, Ruder , Jackson TNW, Morgenstern D, Cadwallader L, Whitehead D, Nabuurs R, van der Weerd L, Vidal N, Roelants K, Hendrikx I, Gonzalez SP, Jones A, King GF, Antunes A, Sunagar K (2013) Squeezers and leaf-cutters: differential diversification and degeneration of the venom system in toxicoferan reptiles. *Molecular and Cellular Proteomics*. **Impact factor** 7.251. **Citations** 9.
45. Ali Sa, Yang D, Jackson TNW, Undheim EAB, Koludarov I, Wood K, Jones A, Hodgson WC, McCarthy S, Ruder T, **Fry BG** (2013) Venom proteomic characterization and relative antivenom neutralization of two medically important Pakistani elapid snakes (*Bungarus sindanus* and *Naja naja*) *Journal of Proteomics*. **Impact factor** 4.088. **Citations** 6.
46. Ruder T, Sunagar K, Undheim EAB, Ali SAA, Wai TK, Low DHW, Jackson TNW, King GF, Antunes A, **Fry BG** (2013) Molecular phylogeny and evolution of the proteins encoded by coleoid (cuttlefish, octopus, squid) posterior venom glands. *Journal of Molecular Evolution* 76(4):192-204 **Impact factor** 2.145. **Citations** 11.
47. Goldstein EJC, Tyrrell KL, Citron DM, Cox CR, Recchio IM, Okimoto B, Bryja J, **Fry BG** (2013) The anaerobic and aerobic bacteriology of the saliva and gingiva from 16 captive komodo dragons (*Varanus komodoensis*): new implications for the "bacteria as venom" model. *Journal of Zoo and Wildlife Medicine* 44(2):262-72. **Impact factor** 0.381. **Citations** 2.
48. Brust A, Sunagar K, Undheim EAB, Vetter I, Yang DC, Casewell NR, Jackson TNW, Koludarov I, Alewood PF, Hodgson WC, Lewis RJ, King GF, Antunes A, Hendrikx I, **Fry BG** (2013)

Differential evolution and neofunctionalization of snake venom metalloprotease domains. *Molecular & Cellular Proteomics* 12(3):651-63 **Impact factor** 7.251. **Citations** 16.

49. 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** 15.389. **Citations** 40.
50. Ukuwela KDB, de Silva A, Mumpuni, **Fry BG**, Lee MSY, Sanders KL (2013) Molecular evidence that the deadliest sea snake *Enhydrina schistosa* (Elapidae: Hydrophiinae) consists of two convergent species. *Molecular Phylogenetics and Evolution* 66(1):262-9 **Impact factor** 4.066. **Citations** 3.
51. Koludarov I, Undheim EAB, Sunagar K, Jackson TNW, Ruder T, Whitehead D, Saucedo AC, Mora GR, Alagon AC, King G, **Fry BG** (2012) Structural and molecular diversification of the Anguimorpha lizard mandibular gland venom system in the arboreal species *Abronia graminea*. *Journal of Molecular Evolution* 75(5-6): 169-193. **Impact factor** 2.145. **Citations** 6.
52. Pycroft K, **Fry BG**, Isbister GK, O'Leary M, Kuruppu S, Lawrence J, Smith IA, Hodgson WC (2012) Toxinology of venoms from five Australian lesser known elapid snakes. *Basic & Clinical Pharmacology & Toxicology* 111:268–274. **Impact factor** 2.179. **Citations** 3.
53. Vidal N, Marin J, Sassi J, Battistuzzi FU, Donnellan S, Fitch AJ, **Fry BG**, Vonk FJ, de la Vega RCR, Couloux A, Hedges SB (2012) Molecular evidence for an Asian origin of monitor lizards followed by Tertiary dispersals to Africa and Australasia. *Biology Letters* 5:853-855. **Impact factor** 3.348. **Citations** 12.
54. Sanders KL, Rasmussen AR, Elmberg J, Mumpun M, Guinea M, Blias P, Lee MSY, **Fry BG** (2012) *Aipysurus mosaicus*, a new species of egg-eating sea snake (Elapidae: Hydrophiinae), with a redescription of *Aipysurus eydouxii*. *Zootaxa* 3431:1 –18. **Impact factor** 0.927. **Citations** 4.
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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