

## **Bernard J. Crespi**

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### **Educational Background**

1987 Ph.D. Biology, University of Michigan, Ann Arbor, U.S.A.  
1980 B.Sc. Biology (Honors), University of Chicago, Chicago, IL, U.S.A.

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### **Employment History at Academic Institutions**

2001 - Current Professor, Biological Sciences, Simon Fraser University  
1997 - 2001 Associate Professor with tenure, Biological Sciences, Simon Fraser University  
1992 - 1997 Assistant Professor, Biological Sciences, Simon Fraser University  
1991 - 1992 NSF Environmental Biology Postdoctoral Fellow, Section of Ecology and Systematics, Corson Hall, Cornell University  
1989 - 1990 NATO-NSF Postdoctoral Fellow, Animal Behaviour Research Group Department of Zoology, Oxford University  
1988 - 1989 NSF Environmental Biology Postdoctoral Fellow, School of Biological Science, University of New South Wales

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### **Semesterly Activity at Simon Fraser University**

	Semester	Type	Course	Number	Session	Type	Hours	Enrollment
	2011-3	Leave						
	2011-2	Research						
	2011-1	Teaching	Evolution of Health and Disease	BISC 441/880		Lecture	3.00	40
	2010-3	Teaching	Evolution	BISC 300		Lecture	3.00	105
	2010-2	Research						

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	2010-1	Teaching	Undergraduate Research	BISC 498		Directed Studies	3.00	1
	2010-1	Teaching	Evolutionary Theory	BISC 806		Lecture	3.00	6
	2009-3	Teaching	Evolution	BISC 300		Lecture	3.00	123
	2009-2	Research						
	2009-2	Teaching	Undergraduate Research	BISC 499		Directed Studies	3.00	1
	2009-2	Teaching	Undergraduate Research	BISC 497		Writing-Intensive	3.00	1
	2009-1	Teaching	Undergraduate Research I	BISC 498		Directed Studies	3.00	1
	2009-1	Teaching	Evolution of Health and Disease	BISC 441/880		Lecture	3.00	
	2008-3	Teaching	Evolution	BISC 300		Lecture	3.00	144
	2008-2	Research						
	2008-1	Teaching	Evolution of Health and Disease	BISC 441/880		Lecture	3.00	30
	2005-3 to 2007-3	Research	Killam Research Fellowship					
	2005-2	Teaching	Directed Readings	BISC890	G01.00	Directed Studies	1.50	1
	2005-1	Teaching	Evolutionary Theory	BISC806	G01.00	Seminar	3.00	11
	2004-3	Teaching	Intro to Ecology	BISC204	D01.00	Lecture	3.00	88
	2004-3	Teaching	Undergraduate Research I	BISC498	D02.00	Directed Studies	1.50	1
	2004-3	Teaching	Undergraduate Research II	BISC499	D05.00	Directed Studies	1.50	1
	2004-3	Teaching	Undergraduate Research II	BISC499	D03.00	Directed Studies	1.50	1
	2004-2	Other Paid Leave					0.00	0
	2004-1	Teaching	Selected Topics in Behavioural Ecology	BISC473	D01.00	Lecture	2.80	14
	2004-1	Teaching	Social Behaviour	BISC817	G01.00	Lecture	.20	1
	2003-3	Study Leave					0.00	0

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	2003-2	Study Leave					0.00	0
	2003-1	Study Leave					0.00	0
	2002-3	Other Paid Leave					0.00	0
	2002-2	Teaching	Undergraduate Research I	BISC498	D12.00	Seminar	3.00	1
	2002-1	Teaching	Evolution	BISC400	D01.00	Lecture	1.50	155
	2001-3	Teaching	Evolutionary Theory	BISC806	G01.00	Seminar	3.00	12
	2001-2	Research						
	2001-1	Teaching	Evolution of Social Behavior	BISC471	D01.00	Lecture	2.79	13
	2001-1	Teaching	Social Behaviour	BISC817	G01.00	Seminar	.21	1
	2000-3	Teaching	Undergraduate Research I	BISC498		Directed Studies	1.50	1
	2000-2	Teaching	Evolution	BISC400		Lecture	3.00	103
	2000-2	Teaching	Undergraduate Research I	BISC498		Directed Studies	1.50	1
	2000-1	Teaching	Survival Strategies	BISC824		Seminar	3.00	5
	2000-1	Teaching	Behavioural Ecology	BISC824		Lecture	3.00	5
	1999-3	Teaching	Evolutionary Theory	BISC806		Seminar	3.00	17
	1999-2	Teaching	Evolution	BISC400		Lecture	3.00	88
	1999-1	Research					0.00	0
	1998-3	Teaching	Introduction to Ecology	BISC204		Lecture	3.00	120
	1998-2	Teaching	Evolution of Social Behaviour	BISC471		Lecture	3.00	16
	1998-2	Teaching	Evolution of Social Behaviour	BISC817		Seminar	3.00	2
	1998-1	Research	Fieldwork in Australia				0.00	0
	1998-1	Teaching	Research Design	BISC490		Directed Studies	2.50	1
	1998-1	Teaching	Research Technique	BISC491		Directed Studies	2.50	1

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	1998-1	Teaching	Research Reporting	BISC492		Directed Studies	2.0	1
	1997-3	Teaching	Evolution	BISC400		Lecture	3.00	105
	1997-2	Teaching	Evolution	BISC400		Lecture	3.00	79
	1997-1	Research	Fieldwork in Australia				0.00	0
	1997-1	Teaching	Undergrad. Research	BISC498		Directed Studies	1.50	1
	1996-3	Teaching	Evolutionary Theory	BISC806		Seminar	3.00	10
	1996-2	Teaching	Introduction to Ecology	BISC204		Lecture	3.00	47
	1996-1	Research	Research Fieldwork in Australia				0.00	0
	1995-3	Teaching	Evolution	BISC400		Lecture	3.00	138
	1995-3	Teaching	Undergraduate Research	BISC498		Directed Studies	1.50	1
	1995-3	Teaching	Social Insects	BISC817		Lecture	3.00	10
	1995-2	Teaching	Introduction to Ecology	BISC204		Lecture	3.00	38
	1995-2	Teaching	Marine Behavioural Ecology	MASC502		Other	0.00	0
	1995-1	Teaching	Research Design	BISC490		Directed Studies	2.50	1
	1995-1	Teaching	Research Technique	BISC491		Directed Studies	2.50	1
	1995-1	Teaching	Research Reporting	BISC492		Directed Studies	2.50	1
	1994-3	Teaching	Evolution	BISC400		Lecture	3.00	154
	1994-3	Teaching	Evolutionary Theory	BISC806		Seminar	3.00	8
	1994-2	Teaching	Introduction to Ecology	BISC204		Lecture	3.00	46
	1994-2	Teaching	Undergraduate Research	BISC498		Directed Studies	1.50	1
	1994-2	Teaching	Molecular Methods, Bamfield	MASC501		Other	0.00	0
	1994-1	Research					0.00	0

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	1993-3	Teaching	Evolution	BISC400		Lecture	3.00	97
	1993-2	Research					0.00	0
	1993-1	Teaching	Evolution	BISC400		Lecture	3.00	153
	1992-3	Teaching	Evolutionary Theory	BISC806		Seminar	3.00	7
	1992-2	Research	Fieldwork in Australia (startup semester)				0.00	0
	1992-1	Research	Fieldwork in Australia (startup semester)				0.00	0

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## Senior Supervisory Duties of a Thesis

	Name	Degree	Project/Thesis Title	Status	Began	Completed
	Leach, Emma	MSc	Evolutionary genetics of schizophrenia	Active	20011-3	
	Dinsdale, Natalie	MSc	Personality genetics of autism and schizophrenia	Active	2009-3	
	Elliot, Mick	Ph.D.	Phylogenetics of placentation	Active	2008-1	
	Arbuthnott, Devin	M.Sc.	Mating behaviour of Timema	Completed	2007-1	2009-2
	Jeffery, Erica	M.Sc.	Evolution of sexual conflict	Completed	2005-1	2007-3
	Elliot, Mick	M.Sc.	Evolution of placentation	Completed	2004-1	2007-3
	Joy, Jeff	Ph.D.	Phylogeny of gall midges	Active	2002-3	2009-3
	Parent, Christine	Ph.D.	Phylogeny of Galapagos snails	Completed	2000-3	2008-1
	Nosil, Patrik	M.Sc.	Ecology of speciation	Completed	2000-3	2006-2
	Springer, Stevan	M.Sc.	Molecular speciation	Completed	1999-3	2003-2
	Law, Jennifer	M.Sc.	Evolution of sex	Completed	1998-3	2001-3
	Chapman, Thomas	Ph.D.	Relatedness and sociality	Completed	1994-1	2000-2
	Kranz, Brenda	Ph.D.	Ecology of gall thrips	Completed	1995-1	2000-1
	Harrison, Michelle	M.Sc.	Phylogenetics of <i>Cancer</i> crabs	Completed	1995-3	1997-3

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## Serving on a Committee of a Thesis

	Name	Degree	Project/Thesis Title	Status	Began	Completed
	Kolte, Astrid (Univ. of Copenhagen)	Ph.D.	Genetics of recurrent miscarriage	Active	2010-3	
	Watson, Corey	Ph.D.	Immunogenetics	Active	2008-1	
	Keever, Carson	Ph.D.	Phylogenetics of starfish	Active	2007-1	2010-3
	Davis, Bradley	M.Sc.	Behavior of archerfish	Active	2006-3	

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	<b>Name</b>	<b>Degree</b>	<b>Project/Thesis Title</b>	<b>Status</b>	<b>Began</b>	<b>Completed</b>
	Ablard-Hickman, Kelly	Ph.D.	Mating behavior in insects	Active	2005-1	
	Gray, Suzanne	Ph.D.	Evolution of fish polymorphism	Completed	2002-3	2006-1
	Perry, Jennifer	M.Sc.	Beetle oviposition	Completed	2001-3	2004-3
	Hoover, Shelley	Ph.D.	Honey bee genetics	Completed	2000-3	2006-1
	Alexander, Heather	Ph.D.	Guppy evolution	Completed	1999-3	2005-2
	Ragsdale, J. (Utah)	Ph.D.	Skew theory	Completed	1998-3	2007-1
	Vos, Rutger	M.Sc.	Supertrees	Completed	2001-1	2005-1
	Kuhnholz, Susanne	Ph.D.	Bark beetle phylogenetics	Completed	1995-3	2004-1
	Mitchell, Jeremy	Ph.D.	Reef fish behavior	Completed	1995-3	2002-3
	Sharpe, Fred	Ph.D.	Whale behavior	Completed	1992-3	2002-3
	Willis, Pamela	M.Sc.	Porpoise hybridization	Completed	1997-3	2001-3
	Morbey, Yolanda	Ph.D.	Salmon behavior	Completed	1996-1	2001-3
	Tyerman, Jabus	M.Sc.	Social aphids	Completed	1997-3	2001-2
	Heithaus, Michael	Ph.D.	Intraguild predation	Completed	1997-1	2001-2
	Swanson, Andrew	Ph.D.	Kelp UV adaptation	Completed	1995-3	2000-1
	Taylor, John	Ph.D.	Guppy microsatellites	Completed	1994-3	1999-3
	Vanderkist, Brett	M.Sc.	Murulet ecology	Completed	1996-3	1999-1
	Robertson, Ian	Ph.D.	Beetle behavior	Completed	1992-3	1997-3
	Pocklington, Richard	M.Sc.	Human evolution	Completed	1994-1	1996-3
	Sharpe, Fred	M.Sc.	Whale behavior	Completed	1992-3	1996-1
	Duffy, Jacqueline	Ph.D.	Risk-taking in humans	Withdrawn	1991-1	1995-3
	McGregor, Robert	Ph.D.	Selection in parasitoids	Completed	1990-3	1995-3
	Jaramillo, A	Ph.D.	Ant foraging	Withdrawn	1993-3	1995-2
	Abbot, Douglas	M.Sc.	Beetle parasite behavior	Completed	1991-1	1994-2
	Zaklan, S	M.Sc.	Crab behavior	Completed	1991-3	1994-1

## **Supervision of Research Personnel**

	September 2011-current	Part time, Manal Abdur Rahman. Lab Manager
	May 2011-current	Part time, Helen Crofts, Undergraduate assistant
	May 2011-August 2011	Part time, Lorraine Schembri, Undergraduate assistant
	December 2010-current	Full time, Daryn Stover, PDF
	January 2008-current	Full Time, Laura Weir, NSERC PDF and Research Assistant
	May 2010-August 2010	Full Time, Kendra Morgan, NSERC Undergraduate Research Award
	May 2009-August 2009	Full Time, Philip Stead, NSERC Undergraduate Research Award
	September 2008-Aug. 2011	Part Time, Kevin Simonetto, Research Assistant, Funded by NSERC
	September 2008-April 2009	Part Time, Lisa Raeburn, Lab Technician, Funded by NSERC
	June 2007- January 2010	Full Time, Tanja Schwander, Postdoctoral Fellow, Funded by Swiss NSF
	September 2004 - January 2006	Part Time, Sampson Wu, Lab Technician, Funded by NSERC
	September 2004 - September 2006	Full Time, Bono, J, Ph.D., Postdoctoral Fellow, Funded by: NSF
	September 2001 - September 2003	Full Time, Loeb, M, Ph.D., Postdoctoral Fellow, Funded by: NSF
	September 2001 - September 2003	Full Time, Thompson, G, Ph.D., Postdoctoral Fellow, Funded by: NSERC
	September 2001 - September 2003	Full Time, Young, K, Ph.D., Postdoctoral Fellow, Funded by: NSERC
	September 2000 - April 2001	Full Time, VanKoeveringe, M, Lab. Manager, Funded by: NSERC and B.C. First Jobs program
	September 1999 - April 2000	Full Time, Bertrand, M, Lab. Manager, Funded by: NSERC and B.C. First Jobs program
	January 1994 - January 1996	Full Time, Brown, W. D. Postdoctoral Fellow, Funded by: NSERC
	January 1993 - January 1995	Part Time, Carmean, D., Lab. Manager, Funded by: NSERC



***Completed Works***

**REFEREED PUBLICATIONS**

Dinsdale, N., and Crespi, B. (2011) The borderline empathy paradox: evidence and conceptual models for empathic enhancements in borderline personality disorder. *J. Personality Res.* (in review).

Crespi B. and Thiselton DL. (2011) Comparative immunogenetics of autism and schizophrenia. *Genes Brain Behavior* (in press). DOI: 10.1111/j.1601-183X.2011.00710.x

Antolin MF, Jenkins K, Crespi B, Hanley KA, Omenn GS, Stearns SC. 2011 Evolutionary medicine in pre-medical undergraduate education: treating the patient In front of us. *Evolution* (in review).

Henry, L., Schwander, T. and B. J. Crespi (2011) Deleterious mutation accumulation in asexual *Timema* stick insects. *Molecular Biology and Evolution* (in press).

Schwander, T., Henry, L., and B. J. Crespi (2011) Molecular evidence for ancient asexuality in *Timema* stick insects. *Current Biology* 21:1129-1134. (cover article)

Frank, S. A. and Crespi, B. J. (2011) Pathology from evolutionary conflict, with a new theory of X versus autosome conflict over sexually-antagonistic traits. *Proceedings of the National Academy of Sciences*, 108: 10886-10893.

Crespi, B. J. (2011) Cancer risk and autism. *Autism Research* 4:302-310.

Somjee, U., K. Ablard, B. Crespi, P. W. Schaefer and G. Gries (2011) Local mate competition in the solitary parasitoid wasp *Ooencyrtus kuvanae*. *Behavioral Ecology and Sociobiology* 65:1071-1077.

Crespi, B. J. (2011) The evolutionary biology of child health. *Proceedings of the Royal Society of London B*. 278: 1441-1449.

Crespi, B. J. (2011) One hundred years of insanity: genomic, psychological and evolutionary models of autism in relation to schizophrenia. In: *Textbook of Schizophrenia-Spectrum Disorders*, edited by M. Ritsner, Springer.

Springer, S. A., B. J. Crespi and W. J. Swanson (2011) Beyond the phenotypic gambit: molecular behavioral ecology and the evolution of genetic architecture. *Molecular Ecology* 20:2240-2257.

Abbot P, Abe J, Alcock J, ... Crespi, B ... et al. (2011) Inclusive fitness theory and eusociality. *Nature* 471:E1-4.

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Crespi, B. J. (2010) The origins and evolution of genetic disease risk in modern humans. *Year in Evolutionary Biology (Annals New York Academy of Sciences)* 1206:80-109.

Summers, K. and B. Crespi (2010) Xmrks the spot: life-history tradeoffs, sexual selection, and the evolutionary ecology of carcinogenesis. *Molecular Ecology* 19:3022-3024,

Crespi, B. J. (2010) Revisiting Bleuler: the relationship of autism with schizophrenia. *British Journal of Psychiatry* 196:496.

Crespi, B. J. (2010) The emergence of human-evolutionary medical genomics. *Evolutionary Applications* (in press) DOI: 10.1111/j.1752-4571.2010.00156.x

Crespi, B., P. Stead and M. Elliot (2010) Comparative genomics of autism and schizophrenia. *Proceedings of the National Academy of Sciences, USA* 107:1736-1741

Arbuthnott, D., M. Elliot, M. McPeck and B. Crespi (2010) Divergent patterns of diversification in courtship and genitalic characters of *Timema* walking-sticks. *Journal of Evolutionary Biology* 23:1399-1411.

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Schwander T., Vuilleumier S., Dubman J., Crespi B. (2010) Positive feedback in the transition from sexual reproduction to parthenogenesis. *Proceedings of the Royal Society of London B*. 277:1435-1442.

Crespi, B. (2010) The strategies of the genes: genomic conflicts, attachment theory and development of the social brain. Chapter in Art Petronis and Jonathon Mill (Editors). *Brain, Behavior and Epigenetics*.

Crespi, B. J., K. Summers and S. Dorus (2010) Evolutionary genomics of human intellectual disability. *Evolutionary Applications* 3:52-63.

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Crespi, B. (2009) Gender, biology and mathematics performance. *Proceedings of the National Academy of Sciences, USA* 196:E102.

Parent, C. E. and B. Crespi (2009) Ecological opportunity in adaptive radiation of Galapagos endemic land snails. *American Naturalist* 174:898-905.

Elliot, M. and B. Crespi (2009) Phylogenetic evidence for early hemochorial placentation in Eutheria. *Placenta* 30:949-967.

Arbuthnott, D. and B. Crespi (2009) Courtship and mate discrimination within and between species of *Timema* walking-sticks. *Animal Behaviour* 78:53-59.

Schwander, T. and B. Crespi (2009) Evidence for multiple direct transitions from sexual reproduction to apomictic parthenogenesis in *Timema* stick insects. *Evolution*

Schwander, T. and B. Crespi (2009) Twigs on the tree of life? Neutral and selective models for integrating macroevolutionary patterns with microevolutionary processes in the analysis of asexuality. *Molecular Ecology* 18:24-82.

Crespi, B. J. (2009) Evolutionary genetics of affective disorders. IN: *Depression: Translational Approaches to Understanding and Treating*, edited by C. Pariante and R. Nesse. Oxford University Press.

Crespi, B. J. (2009) Social conflict resolution, life history theory, and the reconstruction of skew. IN: *Reproductive Skew in Vertebrates*, edited by C. Jones and R. Hager, Cambridge University Press.

Crespi, B. J., K. Summers and S. Dorus (2009) Genomic sister-disorders of neurodevelopment: an evolutionary approach. *Evolutionary Applications* 2:81-100.

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Badcock, C. and B. Crespi (2008) Battle of the sexes may set the brain. *Nature* 454:1054-1055.

Crespi, B. J. (2008) Turner syndrome and the evolution of human sexual dimorphism. *Evolutionary Applications* 1:449-461.

Bono, J. and B. Crespi (2008) Cofoundress relatedness and group productivity in colonies of social *Dunatothrips* (Insecta: Thysanoptera) on Australian *Acacia*. *Behavioral Ecology and Sociobiology* 62:1489-1498.

Summers, K. and B. Crespi (2008) Molecular evolution of the prostate cancer susceptibility locus RNASEL: Evidence for positive selection. *Infection, Genetics and Evolution* 8:297-301.

Summers K, Crespi B. (2008) The androgen receptor and prostate cancer: A role for sexual selection and sexual conflict? *Medical Hypotheses* 70: 435-443.

Crespi, B. J. (2008) Language unbound: genomic conflict and psychosis in the origin of modern humans. IN: *Social Communication*, edited by David Hughes and Patricia D'Ettorre.

Crespi B. J. and C. Badcock (2008) Psychosis and autism as diametrical disorders of the social brain. *Behavioral and Brain Sciences* 31:284-320.

Crespi, B. J. (2008) Genomic imprinting in the development and evolution of psychosis. *Biological Reviews* 83:441-493.

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Elliot, M. and B. Crespi (2008) Divergent brain-body allometry between mammals with invasive vs non-invasive placentation. *Journal of Evolutionary Biology* 21:1766-1776.

Sandoval, C. and B. Crespi (2008 ) Adaptive parallel evolution of dorsal stripes in *Timema* walking-sticks. *Biological Journal of the Linnean Society* 94:1-5.

Chapman, T.W. and B.J. Crespi (2008) The Evolutionary Ecology of Eusociality in Australian Gall Thrips: a 'Model Clades' Approach. In: *Ecology of Social Evolution* (editors Judith Korb and Jurgen Heinze). Princeton University Press.

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Thompson G. J. , Lenz, M., Crozier, R. H., and Crespi, B. J. (2007) Molecular-genetic analyses of dispersal and breeding behaviour in the Australian termite *Coptotermes lacteus*: evidence for non-random mating in a swarm-dispersal mating system. *Australian Journal of Zoology* 55: 219-227.

Crespi B.J., K. Summers and S. Dorus (2007) Adaptive evolution of genes underlying schizophrenia. *Proceedings of the Royal Society of London B* 274:2801-2810.

Crespi B. J. (2007) Sly FOXP2: Genomic conflict in the evolution of language. *Trends in Ecology and Evolution* 22:174-175.

Crespi B. (2007) Comparative Evolutionary Ecology of Social and Sexual systems: Water-breathing Insects Come of Age. Pages 442-460, IN: E. Duffy and M. Thiel (Editors). *Evolutionary Ecology of Crustacea*, Oxford University Press.

Joy J. and Crespi, B. (2007) Adaptive radiation of gall-inducing insects on a single host plant. *Evolution* 61: 784-795.

Nosil P., B. J. Crespi, R. Gries, G. Gries. (2007) Natural selection and divergence in mate preference during speciation. *Genetica* 129:309-27.

McLeish M. J., Crespi, B. J., Chapman, T. W., and Schwarz, M. P. (2007) Parallel diversification of Australian gall-thrips on *Acacia*. *Molecular Phylogenetics and Evolution* 43:714-725.

Springer S. A. and B. J. Crespi (2007) Adaptive gamete-recognition divergence in a hybridizing *Mytilus* population. *Evolution* 61:772-83.

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Parent C. E. and Crespi B. J. (2006) Sequential colonization and diversification of Galapagos endemic land snail Genus *Bulimulus* (Gastropoda, Stylommatophora). *Evolution* 60:2311-28.

Bono J and B. J. Crespi (2006) Costs and benefits of joint colony founding in Australian *Acacia* thrips. *Insectes Sociaux* 53:489-495.

McLeish M. J., Chapman, T. W., Crespi, B J. (2006) Inbreeding ancestors: the role of sibmating in the social evolution of gall thrips. *Journal of Heredity* 97:31-38.

Nosil P, Crespi B. J. (2006) Ecological divergence promotes the evolution of cryptic reproductive isolation *Proceedings of the Royal Society of London B* 273:991-997.

Nosil P., Crespi B. J. Sandoval C. P., Kirkpatrick M. (2006) Migration and the genetic covariance between habitat preference and performance. *American Naturalist* 167:E66-78

Nosil P, Sandoval C. P., Crespi B. J. (2006) The evolution of host preference in allopatric vs. parapatric populations of *Timema cristinae* walking-sticks. *Journal of Evolutionary Biology* 19:929-942.

Nosil P, Crespi B. J. (2006) Experimental evidence that predation promotes divergence in adaptive radiation. *Proceedings of the National Academy of Sciences U S A.* 103:9090-9095.

Crespi B. J. (2006) The natural selection of psychosis. *Behavioral and Brain Sciences* 29:410-411

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Elliot M. G., Crespi B. J. (2006) Placental invasiveness mediates the evolution of in viability in mammals. *American Naturalist* 168:114-120.

Crespi B. J. (2006) Cooperation: close friends and common enemies. *Current Biology* 16:414-415.

Badcock C, Crespi B. J. (2006) Imbalanced genomic imprinting in brain development: an evolutionary for the aetiology of autism. *Journal of Evolutionary Biology* 19:1007-1032.

Crespi B. J., Summers K. (2006) Positive selection in the evolution of cancer. *Biological Reviews* 81:407-424.

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Crespi, B. J. (2005) Parent-offspring conflict in farmers and foragers: a comparative approach. *Current Anthropology* 46:40-41

Summers K., B. Crespi (2005) Cadherins in maternal-foetal interactions: red queen with a green beard? *Proceedings Royal Society of London B* 272:643-649.

Crespi, B. J. and Summers, K. (2005) Evolutionary biology of cancer. *Trends in Ecology and Evolution* 20: 545-552.

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Willis P. M, Crespi B. J., Dill L. M., Baird R. W, Hanson M. B (2004) Hybridization between Dall's porpoises (*Phocoenoides dalli*) and harbour porpoises (*Phocoena phocoena*). *Canadian Journal of Zoology* 82: 828-834

Nosil, P. and B. J. Crespi. (2004) Does gene flow constrain adaptive divergence or vice versa? A test using ecomorphology in *Timema cristinae* walking-sticks. *Evolution* 58:102-112

Hallet, R.H., B. J. Crespi, & J.H. Borden (2004) Synonymy of *Rhyncophorus ferrugineus* (Olivier) and *R. vulneratus* (Panzer) (Coleoptera, Curculionidae, Rhynchophorinae). *Journal of Natural History* 38: 2863-2882

Crespi, B. J. and C. Semeniuk (2004) Parent-offspring conflict in the evolution of vertebrate reproductive mode. *American Naturalist* 163:635-653.

Crespi B. J. (2004) Vicious circles: positive feedback in major evolutionary and ecological transitions. *Trends in Ecology and Evolution* 19:627-633.

Crespi B. J. & M J. Fulton (2004) Molecular systematics of Salmonidae: combined nuclear data yields a robust phylogeny. *Molecular Phylogenetics and Evolution* 31:658-679.

Perry S. P., T. W. Chapman, M. P. Schwarz and B. J. Crespi (2004) Deadly sons and daughters: willingness and effectiveness in defense by soldiers of Australian gall-inducing thrips and the advantages of morphological castes. *Behavioral Ecology and Sociobiology* 56:602-610

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Miller D. & B. J. Crespi. (2003) The evolution of inquilinism, host-plant use and mitochondrial substitution rates in *Tamalia* gall aphids. *Journal of Evolutionary Biology* 16: 731-743

Nosil P., B. J. Crespi, & C.P. Sandoval. (2003) Reproductive isolation driven by the combined effects of ecological adaptation and reinforcement. *Proceedings of the Royal Society of London B* 270: 1911-1918

Crespi B. J. and S. Springer. (2003) Social slime molds meet their match. *Science* 299:56-57.

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Nosil P., Crespi, B. J. and C. P. Sandoval (2002) Host-plant adaptation drives the parallel evolution of reproductive isolation. *Nature* 417:440-443.

Morris D. C., Schwarz, M. P. and Crespi, B. J. (2002) Pleometrosis in phyllode-gluing thrips on Australian Acacia. *Biological Journal of the Linnean Society*. 75:467-474.

## Dr. Bernard Crespi / Professor / Biological Sciences

Crespi B. J. and R. Teo (2002) Comparative phylogenetic analysis of the evolution of semelparity and life history in salmonid fishes. *Evolution* 56:1008-1020.

Chapman T. W., B. D. Kranz, K. Bejah, D. Morris, M. P. Schwarz, and B. J. Crespi (2002) The evolution of soldier reproduction in social thrips. *Behavioral Ecology* 13:519-525.

Law J. and B. J. Crespi (2002) Recent and ancient parthenogenesis in *Timema* walking-sticks. *Evolution* 56:1711-1717.

Law J. and B. J. Crespi (2002) The evolution of geographic parthenogenesis in *Timema* walking-sticks. *Molecular Ecology* 11: 1471-1489.

Kranz B. D., Schwarz, M. P., Morris, D. C. and Crespi, B. J. (2002) Life history of *Kladothrips ellobus* and *Oncothrips rodwayi*: insight into the origin and loss of soldiers in gall-inducing thrips. *Ecological Entomology* 27:49-57.

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Crespi B. J. (2001) The evolution of social behavior in microorganisms. *Trends in Ecology and Evolution* 16:178-183.

Kranz B.D., Chapman, T.W., Crespi, B.J. and Schwarz, M.P. (2001). Social biology and sex ratios in the gall-inducing thrips, *Oncothrips waterhousei* and *Oncothrips habrus*. *Insectes Sociaux* 48: 315-323.

Morris D. C., Schwarz, M.P., Crespi, B.J. and Cooper, S.J.B. (2001). Phylogenetics of gall-inducing thrips on Australian *Acacia*. *Biological Journal of the Linnean Society* 74:73-86.

Crespi B. J. (2001) Altruism in the outback. *Natural History* 110:56-62.

Kranz B. D., T. E. Wills, T. W. Chapman, D. C. Morris, B. J. Crespi and M. P. Schwarz (2001) A fully reproductive fighting morph in a soldier clade of gall-inducing thrips. *Behavioral Ecology and Sociobiology* 50:151-161.

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Crespi B. J. and J. E. Ragsdale (2000). The evolution of sociality via manipulation: why it is better to be feared than loved. *Proceedings Royal Society of London. B.* 267:821-828.

Crespi B. J. (2000) The evolution of maladaptation. *Heredity* 84:623-629.

Kranz B. J., M. P. Schwarz, L. Giles and B. J. Crespi (2000) Split sex ratios and virginity in a gall-inducing thrips. *Journal of Evolutionary Biology* 13:700-706.

Chapman T., B. J. Crespi, M. Schwarz and B. Kranz (2000) High relatedness and inbreeding at the origin of eusociality in Australian gall thrips. *Proceedings of the National Academy of Sciences, USA* 97:1648-1650.

Crespi B. J. and C. P. Sandoval. (2000) Phylogenetic evidence for the evolution of ecological specialization in *Timema* walking-sticks. *Journal of Evolutionary Biology* 13: 249-262.

Crespi B. J. (2000) Selection: Levels and Units. In *Encyclopedia of the Life Sciences*, MacMillan Publishers, London. <http://www.els.net>.

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Kranz B., M. Schwarz, L. Mound and B. J. Crespi. (1999) Social biology and sex ratio in the eusocial gall-inducing thrips *Kladothrips hamiltoni*. *Ecological Entomology* 24:432-442.

Harrison M. and B. J. Crespi. (1999) Phylogenetics of *Cancer* crabs. *Molecular Phylogenetics and Evolution* 12:186-199.

## **Dr. Bernard Crespi / Professor / Biological Sciences**

Crespi B. J. and P. Abbot (1999) The behavioral ecology and evolution of kleptoparasitism in Australian gall thrips. *Florida Entomologist* (Behavioral Ecology Symposium Issue) 82:147-164.

Harrison M. H. and B. J. Crespi. (1999) A phylogenetic test of ecomorphological adaptation in *Cancer* crabs. *Evolution* 53:961-965.

Morris D. L. A. Mound, M. P. Schwarz and B. J. Crespi. (1999) Morphological phylogenetics of Australian gall-inducing thrips and their allies: the evolution of host-plant affiliations, domicile use, and social behaviour. *Systematic Entomology* 24:289-299.

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Crespi B. J. and M. Worobey. (1998) Comparative analysis of gall morphology in Australian gall thrips: the evolution of extended phenotypes. *Evolution* 52:1686-1696.

Sandoval C., D. A. Carmean, and B. J. Crespi. (1998) Molecular phylogenetics of sexual and asexual *Timema* walking-sticks. *Proceedings Royal Society of London B* 265:589-595.

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Chapman T. C. and B. J. Crespi. (1998) High relatedness and inbreeding in eusocial Australian gall thrips revealed by microsatellite analysis. *Behavioral Ecology and Sociobiology* 43:301-306.

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Crespi B. J., D. Carmean, L. A. Mound, M. Worobey and D. Morris. (1997) Phylogenetics of social evolution in Australian gall-forming thrips: evidence from mitochondrial DNA sequence, adult morphology, and gall morphology. *Molecular Phylogenetics and Evolution* 9:163-180.

Crespi B. J. and B. Vanderkist. (1997) Fluctuating asymmetry in functional and vestigial traits in a haplodiploid insect. *Heredity* 79:624-630.

Crespi B. J., D. Carmean, and T. Chapman (1997) The ecology and evolution of galling thrips and their allies. *Annual Review of Entomology* 42:51-71.

Crespi B. J. and J. C. Choe (1997) Evolution and explanation of social systems. Pp. 499-524 in: The Evolution of Social Behavior in Insects and Arachnids. Edited by J. Choe and B. Crespi. Cambridge University Press.

Smith D. R., B. J. Crespi, and F. L. Bookstein (1997) Asymmetry and morphological abnormality in bees *Apis mellifera*: effects of ploidy and hybridization. *Journal of Evolutionary Biology* 10: 551-574.

Brown W. D., B. J. Crespi and J. C. Choe (1997) Sexual conflict and the evolution of mating systems. Pp. 352-377, IN: The Evolution of Mating Systems in Insects and Arachnids. Edited by J. Choe and B. Crespi. Cambridge University Press.

Crespi B. J. and L. A. Mound (1997) Ecology and evolution of social behavior among Australian gall thrips and their allies. Pp. 166-180 in: The Evolution of Social Behavior in Insects and Arachnids. Edited by J. Choe and B. Crespi. Cambridge University.

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## **Dr. Bernard Crespi / Professor / Biological Sciences**

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Crespi, B.J. and D. Yanega. (1995) The definition of eusociality. *Behavioral Ecology* 6: 109-115.

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Crespi B. J. (1992) Eusociality in Australian gall thrips. *Nature* 359: 724-726.

Crespi B. J. (1992) Natural selection and morphometrics. Pp. 55-64. In: J.T. Sorensen and R. Footit (eds.) *Ordinations in the Study of Morphology, Evolution, and Systematics in Insects*. Elsevier.

Crespi B. J. (1992) The behavioral ecology of Australian gall thrips. *Journal of Natural History* 26: 769-809.

Crespi B.J. (1992) Cannibalism and trophic eggs in subsocial and eusocial insects. In: M. Elgar and B.J. Crespi (eds.). *Cannibalism: Ecology and Evolution among Diverse Taxa*. Oxford University Press, Oxford U.K.

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Elgar M. and B.J. Crespi. (1992). *Cannibalism: Ecology and Evolution among Diverse Taxa*. Oxford University Press, Oxford, U.K. (edited volume)

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Crespi B.J. (1991). Heterozygosity in the haplodiploid Thysanoptera. *Evolution* 45: 458-464.

Alexander R.D., K. Noonan, and B.J. Crespi. (1991). The evolution of eusociality, pp. 3-44 In: P.W. Sherman, J. Jarvis, and R.D. Alexander (eds.) *The Biology of the Naked Mole Rat*. Princeton University Press.

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Crespi B. J. (1990) Subsociality and female reproductive success in a mycophagous thrips: an observational and experimental analysis. *Journal of Insect Behavior* 3:61-74.

Crespi B. J. (1990) The measurement of selection on phenotypic interaction systems. *American Naturalist* 135:32-47.

## Dr. Bernard Crespi / Professor / Biological Sciences

Crespi B. J. and P.D. Taylor. (1990). Dispersal rates under variable patch density. *American Naturalist* 135:48-62.

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Crespi B. J. (1989) Facultative viviparity in a thrips. *Nature* 337:357-358.

Crespi B. J. and F. L. Bookstein. (1989) A path-analytic model for the measurement of selection on morphology. *Evolution* 43:18-28.

Frank S. A. and B. J. Crespi (1989) Synergism between sib-rearing and female-biased sex ratios. *Behavioral Ecology and Sociobiology* 24:155-162.

Crespi B.J. (1989) Variable selection and size-related mating patterns in natural populations of *Elaphrothrips tuberculatus*: A path analysis. *American Midland Naturalist* 122: 142-150.

Crespi B. J. (1989) Causes of assortative mating in arthropods. *Animal Behaviour* 38:980-1000.

Crespi B. J. (1989) Sexual selection and assortative mating in subdivided populations of the thrips *Elaphrothrips tuberculatus* (Insecta: Thysanoptera). *Ethology* 3:265-278.

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Crespi B. J. (1988) Sex ratio selection in a bivoltine thrips: Conditional sex ratio manipulation and fitness variation. *Evolution* 42:1199-1211.

Crespi B. J. (1988) Risks and benefits of lethal male fighting in the polygynous, colonial thrips *Hoplothrips karnyi*. *Behavioral Ecology and Sociobiology* 22: 293-301.

Crespi B. J. (1988) Adaptation, compromise and constraint: the development, morphometrics and behavioral basis of a fighter-flier polymorphism in male *Hoplothrips karnyi*. *Behavioral Ecology and Sociobiology* 23: 93-104.

Crespi B. J. (1988) Alternative male mating tactics in a thrips: effects of sex ratio variation and body size. *American Midland Naturalist* 119: 83-92.

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Crespi B. J. (1986) Size assessment and alternative fighting tactics in *Elaphrothrips tuberculatus* (Insecta: Thysanoptera). *Animal Behaviour* 34: 1324-1335.

Crespi B. J. (1986) Territoriality and fighting in a colonial thrips, *Hoplothrips pedicularius*, and sexual dimorphism in Thysanoptera. *Ecological Entomology* 11: 119-130.

### Other Publications, If Any: (e.g. technical reports, books)

Crespi B. J., D. C. Morris and L. A. Mound (2004) *Evolution of Ecological and Behavioural Diversity: Australian Acacia Thrips as Model Organisms*. Australian Biological Resources Study & CSIRO Entomology: Canberra, Australia. Book, 328 pages.

Crespi B.J. (2000) Closing the loop. *Molecular Evolution: A Phylogenetic Approach*. *Bioessays* 22:405. (book review)

Crozier R. and B.J. Crespi (2000) A life of insight - in Memoriam William D. Hamilton (1936-2000). *Obituary*. *Insectes Sociaux* 47:1.

Crespi B.J. (2000) From genes to religion, and back. *Levels and Units of Selection: Journal of Evolutionary Biology*. 13:732-733. (book review)

Crespi B. J. (1998). *Thysanoptera, An Identification Guide*, 2nd Edition. *Systematic Entomology*. 24:101. (book review)

Choe J. and B. J. Crespi. (1997) *The Evolution of Mating Systems in Insects and Arachnids*. Cambridge University Press. (edited volume).



## **Dr. Bernard Crespi / Professor / Biological Sciences**

Choe J. and B.J. Crespi. (1997) The Evolution of Social Behavior in Insects and Arachnids. Cambridge University Press. (edited volume).

Crespi B. J. (1996) Thrips Biology and Management. Quart. Rev. Biol. 71:584. (book review)

Crespi B. J. (1995) Food for thought. Nutrition and Evolution in Insect Societies. Journal of Insect Behavior 8: 731-733. (book review)

Crespi B. J. (1995) Chemical Ecology of Thrips-Host Plant Interactions. Bulletin Entomological Society of Canada 27:105-106. (book review)

### **Other Publications**

Crespi B. J. (1990) The social and sexual behavior of Australian gall thrips. pp. 297-298. In: Social Insects and the Environment. Proceedings of the XX1st International Congress of Entomology, Bangalore.

Crespi B. J. (1987) Fighting behaviour in male tubuliferan thrips. pp. 424-425. In: J. Holman, J. Pelikan, A.F.G. Dixon and L. Weismann (eds.). Population Structure, Genetics and Taxonomy of Aphids and Thysanoptera. SPB Academic Publishing, The Hague, Netherlands.

Crespi B. J. (1987) Behavioral Ecology of Mycophagous Thysanoptera. Ph.D. Thesis. University of Michigan, Ann Arbor.

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## **Conferences, Workshops and Presentations**

### **Invited Talks**

2011	UBC, Biodiversity series
2011	European Society for Evolution, Invited symposium talk, evolutionary medicine
2011	Society for the Study of Evolution, Evolutionary Medicine Symposium, Invited talk
2010	Gordon Conference, Genes & Behaviour, Invited Plenary Speaker, Ventura, California
2010	University of British Columbia, Mood Disorders Clinic, Grand Rounds
2009	University of British Columbia, Brain Research Institute
2009	Canadian Society of Physical Anthropology, Invited Plenary Speaker, Vancouver.
2009	'Darwin and Your Brain' Public Lecture, Harbour Centre, Simon Fraser University.

## **Dr. Bernard Crespi / Professor / Biological Sciences**

2008	Departmental Seminar SFU Department of Biosciences
2008	Departmental Seminar SFU Department of Archaeology
2008	Departmental Seminar SFU Department of Psychology
2008	Departmental Seminar SFU Department of Engineering Sciences
2008	US National Academy Sackler Symposium, Washington DC
2008	Invited Seminar, Yale University, Conference on Evolutionary Medicine
2007	Invited Seminar, UBC Brain Research Institute
2007	Invited Plenary Speaker, Conference on Depression, London UK
2002	University of Massachusetts. "The Charles P. Alexander Lecture"
2001-2007	Almost all invitations declined due to three small children at home
2000	Plenary Speaker. North American Section, International Union for the Study of Social Insects, Arkansas
1999	University of Puget Sound
1999	University of Guelph
1998	Santa Fe Institute Meeting on Social Evolution
1998	University of California, Davis
1998	University of Paris (Jussieu Campus).
1998	University of Victoria
1998	Plenary Speaker, International Union for the Study of Social Insects, Adelaide.
1998	Penn State University
1998	University of Alberta
1997	European Science Foundation Workshop on Social Behavior, Castleton, U.K.
1997	University of Santa Barbara
1997	University of Maryland
1996	University of Calgary
1996	University of Alberta
1995	University of Kansas
1994	University of Montana, Missoula
1994	Plenary Speaker, Northeast Regional Animal Behavior Meetings, New Hampshire
1994	Animal Behavior Society, Invited Symposium Speaker, Seattle
1994	Society of the Study of Evolution, Athens, Georgia
1994	Animal Behavior Society, Seattle
1994	Northeast Regional Animal Behavior Meetings, New Hampshire

## **Dr. Bernard Crespi / Professor / Biological Sciences**

1992	Harvard University, Cambridge, Mass.
1992	University of Connecticut, Storrs
1992	University of British Columbia
1992	Simon Fraser University, Burnaby, B.C.
1992	LaTrobe University, Melbourne
1991	Cornell University, Ithaca
1991	Penn State University, University Park, P.A.
1991	University of Toronto
1991	Queen's University Biological Station, Ont.
1991	Simon Fraser University, Burnaby, B.C.
1990	Syracuse University, N.Y.
1990	University of Sheffield, U.K.
1990	Brown University, Providence, R.I.
1990	Imperial College at Silwood Park, U.K.
1990	University of New Mexico, Albuquerque, N.M.
1990	University of Keele, U.K.
1990	University of Rochester, Rochester, N.Y.
1989	Australian National University, Canberra, ACT.
1989	Oxford University, Oxford, U.K.
1989	Cambridge University, Cambridge, U.K.
1989	University of Illinois, IL.
1989	Princeton University, N.J.
1989	University of New South Wales, NSW
1989	University of Queensland, Brisbane, QLD.
1988	University of California, Irvine, CA.
1988	University of Florida, Gainesville, FL.
1988	Simon Fraser University, Burnaby, B.C.
1987	University of Rochester, Rochester, N.Y.
1986	University of Georgia, Athens, GA.
1985	Oxford University, Oxford, U.K.

### **Presentations**

2004-2010	Talks presented by 2-4 of my students and PDFs every year (except 2006) at Society for the Study of Evolution
2004	Society for the Study of Evolution (4 talks)
2004	International Congress of Entomology, Brisbane (1 talk)
2003	Society for the Study of Evolution (3 talks)

## **Dr. Bernard Crespi / Professor / Biological Sciences**

- 2002 Society for the Study of Evolution (3 talks, 1 poster, with P. Nosil, C. Parent, S.Springer, J. Joy).
- 2002 Invited Symposium Speaker, International Union for the Study of Social Insects, Sapporo, Japan. 2002.
- 2001 Society for the Study of Evolution (2 talks, 1 poster, with P. Nosil, T. Chapman, B. Kranz, D., K. Bejah, M. Schwarz, J. Law)
- 2000 North American Section, International Union for the Study of Social Insects, Arkansas
- 1998 International Union for the Study of Social Insects, Adelaide, Australia. (with B. Kranz, first author and M.P. Schwarz)
- 1998 Society for the Study of Evolution (with M. Worobey)
- 1998 Society for the Study of Evolution (with T. Chapman, first author).
- 1998 Society for the Study of Evolution (with M. Harrison, first author).
- 1998 Society for the Study of Evolution (with C. Sandoval, first author, and D. Carmean)
- 1997 Society for the Study of Evolution (with B. Kranz, first author, M.P. Schwarz and L. Mound)
- 1997 Society for the Study of Evolution. (with T. Chapman, first author)
- 1997 Society for the Study of Evolution (with M. Harrison, first author).
- 1996 Behavioral Ecology Society, Canberra. (with T. Chapman)
- 1996 Speciation Meeting. "Speciation Meeting" Endless Forms: Species and Speciation" Asilomar, CA, (with \*C. Sandoval, first author and D. Carmean)
- 1996 International Congress of Entomology, Florence. (with \*B. Kranz, first author, M.P. Schwarz and L.A. Mound)
- 1996 Behavioral Ecology Society, Canberra (with B. Kranz, first author, and M.P. Schwarz)
- 1995 Entomological Society of Canada, Victoria
- 1995 Society for the Study of Evolution, Montreal
- 1995 Entomological Society of Canada, Victoria
- 1995 Society of the Study of Evolution, Montreal. (with P. Abbot and D. Carmean)
- 1994 Society of the Study of Evolution, Athens, Georgie
- 1992 Society for the Study of Evolution, Berkeley
- 1991 European Society of Evolutionary Biology, Debrecen, Hungary
- 1990 International Union for the Study of Social Insects, Bangalore, India
- 1989 Society for the Study of Evolution, Penn. State
- 1988 Society for the Study of Evolution, Asilomar, CA.
- 1988 International Congress of Entomology, Vancouver, B.C.
- 1987 Society for the Study of Evolution, Bozeman, MT.
- 1987 International Ethological Conference, Madison, WI.
- 1987 Animal Behavior Society, Williamstown, M.A.
- 1986 Animal Behavior Society, Tucson, AZ.

## Research Funding

**Contract/Grant:** Discovery Grant **Awarded:** 2009 **Period:** 2009 – 2014

**Project Title:** Integrating Phylogenetics, Evolutionary Genetics & Molecular Ecology in the Study of Diversification

**Funding:** NSERC **Type:** External **Annual:** \$82,400 **Total:** 412,000

**Involvement:** Principal Investigator

**PLUS Discovery Grant Accelerator Supplement, 2010-2012, 3 years, 40,000/year**

**Contract/Grant:** Discovery Grant **Awarded:** 2004 **Period:** 2004 - 2009

**Project Title:** An Integrated Phylogenetic and Behavioral-Ecological Approach to the Evolution of Adaptive Radiation

**Funding:** NSERC **Type:** External **Annual:** \$75,500 **Total:** 377,500

**Involvement:** Principal Investigator

**Contract/Grant:** Research Grant **Awarded:** 2002 **Period:** 2002 - 2005

**Project Title:** Co-Evolution of Sociality and Sex Allocation: Phylogenetic Comparative Approaches Using Insects.

**Funding:** Australian Research Council Discovery Grant **Type:** External **Annual:** 120,000 AUS **Total:** 360,000 AUS

**Involvement:** Principal Investigator **Collaboration:** I am a "1st partner" on this grant, which supports my lab's travel and fieldwork

**Contract/Grant:** Equipment Grant **Awarded:** 2004 **Period:** 2004 - 2004

**Project Title:** An Inexpensive DNA Sequencer for Microsatellite Genotyping in Evolutionary Ecology

**Funding:** NSERC **Type:** External **Annual:** \$21,463 **Total:** 21,463

**Involvement:** Principal Investigator **Collaboration:** M. Hart, E. Elle, F. Breden

**Institution of Co-Investigator(s):** SFU

**Contract/Grant:** Operating Grant **Awarded:** 1999 **Period:** 1999 - 2004

**Project Title:** "An Integrated Phylogenetic and Ecological Approach to the Evolution of Insect Reproductive Behaviour"

**Annual:** \$59,800 **Total:** \$299,000

**Involvement:** Principal Investigator

**Contract/Grant:** Research Grant **Awarded:** 2000 **Period:** 2000 - 2002

**Project Title:** Evolution of Social Behaviour in Australian gall-forming thrips n Acacia

**Funding:** Australian Research Council, Large Grant **Type:** External **Total:** \$318,000 AUS

**Involvement:** Principal Investigator **Collaboration:** I am "1st partner" on this grant, which supports my lab's travel and fieldwork

## **Dr. Bernard Crespi / Professor / Biological Sciences**

**Contract/Grant:** Equipment Grant **Awarded:** 2000 **Period:** 2000 - 2000

**Project Title:** "Thermal Cycler for Polymerase Chain Reaction"

**Funding:** NSERC **Type:** External **Total:** \$12,642

**Involvement:** Principal Investigator

**Contract/Grant:** Research Grant **Awarded:** 1997 **Period:** 1997 - 1999

**Project Title:** Social Behaviour, Ecology and Evolution of Australian gall-forming thrips and their allies.

**Funding:** Australian Research Council, Large Grant **Total:** \$212,000

**Involvement:** Principal Investigator **Collaboration:** I am "1st partner" on this grant, which supports my lab's travel and fieldwork.

**Contract/Grant:** GREAT Award **Awarded:** 1997 **Period:** 1997 - 1999

**Project Title:** Cancer crab population structure

**Funding:** B.C. Science Council **Total:** \$34,000

**Contract/Grant:** Operating Grant **Awarded:** 1995 **Period:** 1995 - 1999

**Project Title:** "An Integrated Phylogenetic and Ecological Approach to the Evolution of Insect Reproductive Behaviour".

**Funding:** Natural Science and Engineering Research Council **Annual:** \$37,800

**Contract/Grant:** Operating Grant **Awarded:** 1992 **Period:** 1992 - 1994

**Project Title:** "An Integrated Phylogenetic and Ecological Approach to the Evolution of Insect Reproductive Behaviour"

**Funding:** Natural Science and Engineering Research Council **Annual:** \$32,200 **Total:** \$96,600

**Contract/Grant:** Equipment Grant **Awarded:** 1993 **Period:** 1993 - 1993

**Project Title:** "Ultra-low Temperature Freezer for Preserving Biological Activity of Allozyme, DNA and Tissue Samples"

**Funding:** Natural Science and Engineering Research Council **Total:** \$12,472

**Contract/Grant:** Development Grant **Awarded:** 1991 **Period:** 1991 - 1993

**Project Title:** "The Social Biology of Australian Gall Thrips" (for two periods of five-month's work on the social biology and genetics of Australian gall thrips.)

**Funding:** National Geography Society **Total:** \$24,800 US

**Contract/Grant:** Equipment Grant **Awarded:** 1992 **Period:** 1992 - 1992

**Project Title:** "A Cetus Thermal-Cycler for the Polymerase Chain Reaction"

**Funding:** Natural Science and Engineering Research Council **Total:** \$11,502

**Contract/Grant:** President's Fund **Awarded:** 1992 **Period:** 1992 - 1992

**Project Title:** "An Integrated Phylogenetic and Ecological Approach to the Evolution of Reproductive Behaviour"

**Funding:** Simon Fraser President's Fund **Total:** \$7,000

## **Dr. Bernard Crespi / Professor / Biological Sciences**

**Contract/Grant:** Fellowship Grant   **Awarded:** 1989   **Period:** 1989 - 1991

**Project Title:** "Molecular Genetic and Systematics of Thysanoptera" (For two years of work on evolution and genetics of Thysanoptera.)

**Funding:** NSF Environmental Biology Post-Doctoral Fellowship Grant

**Contract/Grant:** Research Grant   **Awarded:** 1990   **Period:** 1990 - 1990

**Project Title:** "Genetic Analysis of Sex Ratio Evolution in Colonial Hoplothrips". (For electrophoretic work on Hoplothrips)

**Funding:** Natural Environmental Research Council   **Total:** \$2,700

**Involvement:** Joint Investigator   **Collaboration:** (with Professor W.D. Hamilton).

**Contract/Grant:** Fellowship Grant   **Awarded:** 1989   **Period:** 1989 - 1990

**Project Title:** "Genetic Analysis of Sex Ratio Evolution in Colonial Hoplothrips". (For one year of work at Oxford University on sex ratio selection in Hoplothrips.)

**Funding:** NSF-NATO Post-Doctoral Fellowship

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## **Active Service to Simon Fraser University**

### **Departmental Committees**

2010 – 2011	Chair, Strategic Planning Committee
2008 - 2009	Member, Tenure and Promotions Committee
2005 - 2008	Killam Research Fellowship, with Administrative Leave
2004 - 2005	Member, Tenure and Promotions Committee
2004 - 2005	Member, Physiology Search Committee
2002 - 2003	Member, Appointments Committee
2001 - 2002	Limited service on Departmental Committees due to (1) NSERC GSC-18 duties, (2) service on four Editorial Boards, (3) Parental leave, (4) not being tapped to serve on Search Committees. I was, however, a regular attendant and active participant in Departmental Meetings.
1999 - 2000	Member, Evolutionary Physiology Search Committee
1998 - 2000	Chair, Departmental Strategic Planning Committee
1998 - 2000	Member, Departmental Tenure Committee
1998 - 2000	Member, Course Planning Group
1998 - 2000	Member, Appointments Committee
1997 - 1999	Member, Plant Evolutionary Ecology Search Committee
1995 - 1996	Member, Genetics Search Committee
1993 - 1996	Member, Departmental Graduate Studies Committee
1994 - 1995	Member, Departmental Tenure Committee
1994 - 1995	Member, Departmental Structure Working Group

## **Active Service to the Academic Community**

2009	Michael Smith Foundation for Health Research, Review Panel, Clinical Research
2008	Grants Panel, US National Cancer Institute
2008 -	Editorial Board, Evolutionary Applications
2008 -	Evolution and Medicine Review, 'Senior Correspondent'
2008 -	Coordinator, International Union for the Study of Social Insects, 2010 meeting
2008 -	NSERC, Major Facilities Grants, Adjudication Panel Member
2007 – 2008	Canada Research Chairs, College of Reviewers (member of panel that adjudicates CRC applications from Universities across Canada)
2003 - 2006	Associate Editor, American Naturalist
2001 - 2011	External Examiner on Theses (several, details confidential)
2001 - 2009	Tenure and Full-Professor Promotion reviews (several Universities, details confidential)
1992 - 2011	Reviewer for journals: American Naturalist, Autism, Behavioral Ecology, behavioral Ecology and Sociobiology, Canadian Entomologist, Ecoscience, Evolution, Evolutionary Applications, Insectes Sociaux, Molecular Biology and Evolution, Molecular Phylogenetics and Evolution, Nature, Quarterly Review of Biology, Science, Systematic Entomology, Systematic Zoology, Trends in Ecology and Evolution
1992 - 2011	Reviewer of grant proposals, ARC, MRC, NERC, NSERC, NSF
2002 - 2003	Chair, NSERC Grant Selections Committee 18 (Ecology and Evolution)
2000 - 2003	Member, NSERC Grant Selections Committee 18 (Ecology and Evolution) (equivalent of NSF Panel Member).
2002 - 2002	Symposium Organizer, International Union for the Study of Social Insects, Sapporo, 2002.
2000 - 2002	Associate Editor, Evolution
1999 - 2002	Editorial Board, Journal of Evolutionary Biology
1999 - 2002	Editorial Board, Journal of Ethology
1997 - 2002	Advisory Editor, Behavioral Ecology and Sociobiology
1995 - 2002	I established and ran an electronic mail network for scientists who use the polymerase chain reaction and DNA sequencing for insect systematics and populations biology.
1999 - 2000	Reviewer for Full Professor Decisions (or equivalent) (Dates Confidential), Smithsonian Institution, Ben-Gurion University



## Dr. Bernard Crespi / Professor / Biological Sciences

1999 - 2000	I was an organizer of the Canadian Society for Ecology and Evolution
1998 - 2011	I have given many interviews on my work to the CBC and other media.
1997 - 2000	Member, GSC-18 Reallocations Steering Committee

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## Awards, Honors and Scholarships

2010	<b>Type:</b> Induction into the Royal Society of Canada
2009	<b>Type:</b> My PDF Tanja Schwander won the John Maynard Smith Award from the European Society for Evolutionary Biology (the Society's major Award honoring a young Evolutionary Biologist)
2008	<b>Type:</b> Appointment to 'University Professorship' Chair at Simon Fraser University
2008	<b>Type:</b> Appointment as "Founding Fellow", UBC Institute of Mental Health.
2007	<b>Type:</b> My PhD student Patrik Nosil won the NSERC Doctoral Prize (awarded for best two theses in Canada every year), the Governor General of Canada Gold Medal Award, and the Dobzhansky Prize (a top award from the Society for the Study of Evolution)
2005	<b>Type:</b> Killam Research Fellowship, Canada Council for the Arts
2004	<b>Title:</b> Whitley Award <b>Type:</b> Research <b>Organization:</b> Royal Society of New South Wales, Australia <b>Details:</b> for best book in evolutionary biology published in Australia in 2004.
2002	<b>Title:</b> "The Charles P. Alexander Lecture" <b>Type:</b> Honor <b>Organization:</b> Department of Entomology, University of Massachusetts
2001	<b>Title:</b> E.O. Wilson Award <b>Type:</b> Award <b>Organization:</b> American Society of Naturalists <b>Details:</b> Yearly international prize to recognize contributions to evolutionary biology and knowledge of a particular group of organisms, US \$2,000 award
1998	<b>Title:</b> "Travel and expenses for weeklong visit to Paris, with two talks presented. <b>Type:</b> Fellowship <b>Organization:</b> The University of Paris, Jussieu Campus".
1996	<b>Title:</b> "Travel expenses paid for collaborative visit to Flinders University, Adelaide." <b>Type:</b> Fellowship <b>Organization:</b> Flinders University of South Australia, Visiting Fellowship
1995	<b>Title:</b> "Yearly invited series of two lectures during week-long visit, in honor of eminent entomologist Dr. Charles Michener" <b>Type:</b> Honor <b>Organization:</b> The Michener Lectures, University of Kansas, Lawrence, Kansas
1989	<b>Title:</b> Theodosius Dobzhansky Prize <b>Type:</b> Award <b>Organization:</b> Society for the Study of Evolution <b>Details:</b> Yearly international prize to recognize outstanding young evolutionary biologist, US \$5,000 award.

