

LAURA B. GEYER

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RESEARCH INTERESTS

Evolution of mating systems, reproductive isolation and speciation, marine biogeography, invertebrate phylogeny, population genetics and molecular evolution.

EDUCATION

- 1996 - 2004 HARVARD UNIVERSITY CAMBRIDGE, MA
PhD, Organismic and Evolutionary Biology
 ▪ Stephen R. Palumbi, Primary Advisor
- 1995- 1996 UNIVERSITY OF HAWAII HONOLULU, HI
Zoology
 ▪ First year of Masters Program in Zoology, Transferred at end of year
- 1991- 1995 UNIVERSITY OF DELAWARE NEWARK, DE
Honors B.A. Biology, Cum Laude
 ▪ Completed Honors Thesis "Geographic Variation in *Crassostrea virginica*"

HONORS AND FELLOWSHIPS

Department of Organismic and Evolutionary Biology Research Grant, Harvard University (\$2500)
Golden Key National Honors Society
Undergraduate Research Grant, University of Delaware (\$500)
Howard Hughes Medical Institute Undergraduate Initiative Grant (\$2000)
National Merit Scholar

PUBLICATIONS

- Geyer, L. B. and Palumbi, S. R. (In Prep) Rapid Recombination across the intron-exon boundary of bindin.
- Geyer, L. B. and Palumbi, S. R. (In Revision) Rapid evolution of bindin in an allopatric species of sea urchin, *Echinometra insularis* (Clark).
- Geyer, L. B. and Palumbi S. R. (Submitted) Conspecific sperm precedence in two species of tropical sea urchins.
- Landry, C., Geyer, L. B., Arakaki Y., Uehara, T. and Palumbi S. R. (2003) A recent speciation event in the Indo-West Pacific: rapid evolution of gamete recognition and sperm morphology in cryptic species of sea urchin. *Proceedings of the Royal Society, series B.* 270 (1526): 1839-1847.
- Geyer L. B. and Palumbi S. R. (2003) Reproductive character displacement and the genetics of reproductive isolation in tropical sea urchins. *Evolution.* 57 (5): 1049-1060.
- Palumbi, S. R., Grabowski, G., Duda, T., Tachino, N. and Geyer, L. (1997) Speciation and the evolution of population genetic structure in tropical Pacific sea urchins. *Evolution* 51: 1506-1517.
- McDonald, J. H., Verrelli, B. C., and Geyer, L. B. (1996) Lack of Geographic Variation in Anonymous Nuclear Polymorphisms in the American Oyster, *Crassostrea virginica*. *Molecular Biology and Evolution* 13:1114-1118.

PRESENTATIONS

Society for the Study of Evolution (1998, 1999, 2001, 2002, 2003; Poster-1997)
Western Society of Naturalists (2002)
Albert Tester Student Symposium, University of Hawai'i (1996)

RESEARCH EXPERIENCE

1995 - 2004 HARVARD UNIVERSITY CAMBRIDGE, MA
Population genetics and systematics of tropical sea urchins in the genus
Echinometra. Evolution of gamete recognition proteins in sea urchins.
 ▪ Advisor: Dr. Stephen R. Palumbi

1995 IMPERIAL COLLEGE LONDON, UK
Molecular Biology of Hepatitis GB-B virus
 ▪ Advisor: Dr. Michael McGarvey

1994- 1995 UNIVERSITY OF DELAWARE NEWARK, DE
Polymorphism and Geographic Variation in *Crassostrea virginica*
 ▪ Advisor: Dr. John H. McDonald

TEACHING EXPERIENCE

FALL 2001 EVOLUTIONARY BIOLOGY HARVARD
Stephen R. Palumbi
 ▪ Head Teaching Fellow

FALL 2000 MARINE BIOLOGY HARVARD
Robert Woollacott

SPRING 1999, 2000 BIOLOGICAL OCEANOGRAPHY HARVARD
James McCarthy

FALL 1996, 1997 ORGANISMIC AND EVOLUTIONARY BIOLOGY HARVARD
Otto Solbrig, Brian Farrell, A. W. Crompton

SPRING 1996 INTRODUCTORY ZOOLOGY UNIV. HAWAI'I
Ernst Reese and Leonard Freed

FALL 1995 INVERTEBRATE ZOOLOGY UNIV. HAWAI'I
Stephen R. Palumbi and Michael Hadfield

FALL 1993 GENETIC AND EVOLUTIONARY BIOLOGY UNIV. DELAWARE
David Sheppard
 ▪ Course Assistant

GRADUATE COURSES

RECOMBINANT DNA METHODS	UNIV. DELAWARE	Jaques Pene
EVOLUTIONARY GENETICS	UNIV. DELAWARE	John McDonald
PACIFIC BIOGEOGRAPHY	UNIV. HAWAI'I	Alison Kay
MOLECULAR ECOLOGY	FRIDAY HARBOR	Stephen Palumbi and Andrew Martin
MARINE ECOLOGY OF NEW ENGLAND	HARVARD	Stephen Palumbi
SPECIES AND SPECIATION	HARVARD	Kerry Shaw
EVOLUTIONARY GENETICS	HARVARD	John Wakeley

PROFESSIONAL TRAINING COURSES

A Field Guide to GenBank and NCBI Molecular Biology Resources