CURRICULUM VITAE

SRINIVAS KAMBHAMPATI
Professor, Department of Entomology
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RESEARCH AND TEACHING EXPERIENCE

Professor, Insect Genetics: Department of Entomology, Kansas State University. June 2002-present.

Associate Professor, Insect Genetics: Department of Entomology, Kansas State University. July 1998-June 2002.

By-Fellow: Laboratory for Development and Evolution, Department of Zoology, University of Cambridge, Cambridge, UK. May 1999-November 1999. (Sabbatical).

Assistant Professor, Insect Genetics: Department of Entomology, Kansas State University. July 1992-June 1998.

Assistant Faculty Fellow: Department of Biological Sciences, University of Notre Dame. July 1990-June 1992.

Postdoctoral Research Associate: Department of Biological Sciences, University of Notre Dame. November 1987-June 1990.

Graduate Research Assistant: Department of Biological Sciences, Simon Fraser University. 1981-1987.

Teaching Assistant: Department of Biological Sciences, Simon Fraser University. 1981-1982.

Instructor: Insect Genetics, Insect Evolution, Conceptual Issues in Evolution, Evolutionary Ecology, and Insect Conservation Biology: Graduate Courses, Department of Entomology, Kansas State University. 1992-present.
General Entomology: Undergraduate Course, Department of Entomology, Kansas State University, 2003-present.
Ecology of Host-Parasite Interactions: Graduate Seminar Course (team-taught), Department of Biological Sciences, University of Notre Dame. 1992.
Guest Lecturer: Evolution, Fundamentals of Genetics: University of Notre Dame (1989-1991); Host Plant Resistance, Conservation Biology: Kansas State University (1993-1995).

EDUCATION

Doctor of Philosophy: Department of Biological Sciences, Simon Fraser University. 1987.

Master of Pest Management: Department of Biological Sciences, Simon Fraser University. 1981.

Bachelor of Science: Andhra Pradesh Agricultural University, Hyderabad, India. 1979.

PUBLICATIONS

Faculty position:

Aldrich, B.T., G. Zolnerowich, and S. Kambhampati. 2004. Interspecific morphological variation in the wood-feeding cockroach, Cryptocercus (Dictyoptera: Cryptocercidae). Arthropod Structure and Development 42: 149-164.

Chakrabarthy, S., S. Kambhampati, T. Grace, and L. Zurek. 2004. Characterization of microsatellite loci in the house fly, Musca domestica (Diptera: Muscidae). Molecular Ecology Notes (in press).

Aldrich, B.T., S. Kambhampati. 2004. Microsatellite markers for three species of dampwood termites in the genus Zootermopsis (Isoptera: Termopsidae). Molecular Ecology Notes (in press).

Aldrich, B.T., S. Kambhampati, and E. Krafsur. 2004. Population genetics of wood-feeding cockroaches in the genus Cryptocercus. Journal of Heredity (in review).

Kambhampati, S. and A.T. Peterson. 2004. Ecological niche conservation and differentiation in the wood-feeding cockroach, Cryptocercus, in the United States. Biological Journal of Linnean Society (in review).

Smith, P.T., B.A. McPheron and S. Kambhampati. 2004. Phylogeny, character evolution, and biogeography of Bactrocera (Diptera: Tephritidae) inferred from multiple mitochondrial genes. Insect Systematics and Evolution (in review).

Kambhampati, S., B. Yue, and S. Zhou. 2004. Phylogenetic relationship and divergence estimates among Palaearctic and Nearctic wood-feeding cockroaches, Cryptocercus. Molecular Phylogenetics and Evolution (in review).

Aldrich, B.T., E. Krafsur, and S. Kambhampati. 2004. Species-specific allozyme markers for wood-feeding cockroaches (Blattodea: Cryptocercidae). Biochemical Genetics 42:149-163.

Braendle, C., T. Miura, R. Bickel, A. W. Shingleton, S. Kambhampati, and D. L. Stern. 2003. Developmental origin and evolution of bacteriocytes in the aphid-Buchnera symbiosis. Public Library of Science - Biology 1:70-76.

Miura, T., C. Braendle, S. Kambhampati, and D.L. Stern. 2003. Parthenogenetic embryogenesis in the pea aphid, Acyrthosiphon pisum (Homoptera: Aphididae). Journal of Experimental Zoology (Molecular Development and Evolution) 295B: 59-81.

Smith, P.T., B.A. McPheron and S. Kambhampati. 2002. Phylogenetic analysis of mitochondrial DNA supports the monophyly of Dacini fruit flies (Diptera: Tephritidae). Annals of Entomological Society of America 95:668-664.

Smith, P.T., S. Kambhampati and K.A. Armstrong. 2002. Phylogenetic relationships among Bactrocera species (Diptera: Tephritidae) inferred from mitochondrial DNA sequences. Molecular Phylogenetics and Evolution 26:8-17.

Clark, J.W. and S. Kambhampati. 2002. Phylogenetic relationships among Blattabacterium, endosymbiotic bacteria from the wood roach, Cryptocercus. Molecular Phylogenetics and Evolution 26:82-88.

Smith, P.T., K. Krager, J.T. Cronin and S. Kambhampati. 2002. Mitochondrial DNA variation among host races of Eurosta solidaginis Fitch (Diptera:Tephritidae). Molecular Phylogenetics and Evolution 25:372-376.

Kambhampati, S., J.W. Clark and B.L. Brock. 2002. Evolution of host- and habitat association in the wood-feeding cockroach, Cryptocercus. Biological Journal of the Linnean Society 75:163-172.

Gao, J.R., S. Kambhampati, and K.Y. Zhu. 2002. Molecular cloning and characterization of a green bug (Schizaphis graminum) cDNA encoding acetylcholinesterase possibly evolved from a duplicate gene lineage. Insect Biochemistry and Molecular Biology 32:765-774.

Steinmiller, B., S. Kambhampati and B.L. Brock. 2001. Geographic distribution of, and genetic variation in the wood roach, Cryptocercus (Dictyoptera: Cryptocercidae). Annals of the Entomological Society of America 94: 732-742.

Hossain, S. and S. Kambhampati. 2001. Phylogeny of Cryptocercus (Blattodea: Cryptocercidae) species inferred from nuclear ribosomal DNA. Molecular Phylogenetics and Evolution 21:162-165.

Clark, J.W., S. Hossain, C.A. Burnside and S. Kambhampati. 2001. Coevolution between a cockroach and its bacterial endosymbiont: A biogeographical perspective. Proceedings of the Royal Society of London, Series B. 268:393-398.

Kambhampati, S., W. Voelkl and M. Mackauer. 2000. Phylogenetic relationships among genera of Aphidiinae (Hymenoptera: Braconidae) based on DNA sequence of the mitochondrial 16S rRNA gene. Systematic Entomology 25: 437-445.

Burnside, C.A., P.T. Smith and S. Kambhampati. 1999. Three new species of the wood roach, Cryptocercus (Blattodea: Cryptocercidae), from eastern North America. Journal of Kansas Entomological Society 72: 361-378.

Kambhampati, S. and P. Eggleton. 2000. Taxonomy and phylogenetics of Isoptera. pp. 1 23. In: T. Abe, D.A. Bignell and M. Higashi (eds.): Termites: Evolution, Sociality, Symbioses and Ecology. Kluwer Academic Publishers.

Smith, P.T. and S. Kambhampati. 2000. Evolutionary transitions in behavioral and morphological traits of Aphidiinae (Hymenoptera: Braconidae). pp. 106-113. In: A.D. Austin and M. Dowton (eds.): Hymenoptera: Evolution, Biodiversity, and Biological Control. CSIRO Press, Canberra, Australia.

Smith, P.T. and S. Kambhampati. 1999. Status of the Cotesia flavipes species complex (Braconidae: Microgastrinae) based on mitochondrial 16S rRNA and NADH1 dehydrogenase gene sequence. Journal of Kansas Entomological Society 72: 306-314.

Smith, P.T., S. Kambhampati, W. Voelkl and M. Mackauer. 1999. A phylogeny of aphid parasitoids (Braconidae: Aphidiinae) inferred from mitochondrial NADH 1 dehydrogenase gene sequence. Molecular Phylogenetics and Evolution 11: 236-245.

Kambhampati, S. and R.E. Charlton. 1999. Phylogenetic relationship among Libellula, Ladona, and Plathemis (Odonata:Libellulidae) based on DNA sequence of mitochondrial 16S rRNA gene. Systematic Entomology 24: 37-49.

Eggleton, P., R.G. Davies, M.D. Kane and S. Kambhampati. 1999. A checklist of termites (Isoptera) from Kaieteur National Park, Guyana. Proceedings of Entomological Society of Washington 101: 687-689.

Corey, D., S. Kambhampati, and G.E. Wilde. 1998. Electrophoretic analysis of Orius insidiosus (Hemiptera: Anthocoridae) feeding habits in field corn. Journal of Kansas Entomological Society 71: 11-17.

Rider, D., G.E. Wilde and S. Kambhampati. 1998. Genetics of esterase-mediated insecticide resistance in the aphid, Schizaphis graminum. Heredity 81: 14-19.

Guedes, R.N., K.Y. Zhu B.A. Dover and S. Kambhampati. 1998. Insecticide-insensitive acetylcholinesterase in individuals of Rhyzopertha dominica populations from Brazil and the United States. Journal of Applied Entomology 122: 269-273.

Guedes, R.N.C., K.Y. Zhu, S. Kambhampati and B.A. Dover. 1998. Characterization of acetylcholinesterase purified from the lesser grain borer, Rhyzopertha dominica. Comparative Biochemistry and Physiology Part C 119: 205-210.

Guedes, R.N.C., K.Y. Zhu, S. Kambhampati and B.A. Dover. 1997. An altered acetylcholinesterase conferring negative cross-insensitivity to different insecticides in

organophosphate resistant lesser grain borer, Rhyzopertha dominica. Pesticide Biochemistry and Physiology 58: 55-62.

Kambhampati, S., R. Bossard and M.W. Dryden. 1997. Rapid assay for the detection of esterases in the cat flea, Ctenocephalides felis (Siphonaptera: Pulicidae). Journal of Kansas Entomological Society 70: 135-138.

Guedes, R.N., K.Y. Zhu, B.A. Dover and S. Kambhampati. 1997. Partial characterization of phosphotriesterases from organophosphate-susceptible and resistant populations of in Rhyzopertha dominica (Coleoptera: Bostrichidae). Pesticide Biochemistry and Physiology 57: 156-164.

Guedes, R.N., S. Kambhampati and B.A. Dover. 1997. Allozyme variation among Brazilian and US populations of lesser grain borer, Rhyzopertha dominica, resistant to insecticides. Entomologia Experimentalis et applicata 84 :49-57.

Guedes, R.N., S. Kambhampati, B.A. Dover and K.Y. Zhu. 1997. Biochemical mechanism of organophosphate resistance in Brazilian and US populations of Rhyzopertha dominica (Coleoptera: Bostrichidae). Bulletin of Entomological Research 87: 581-586.

Guedes, R.N., B.A. Dover and S. Kambhampati. 1996. Resistance to chlorpyriphos-methyl, pirimiphos-methyl and malathion in Brazilian and U.S. populations of Rhyzopertha dominica (Coleoptera: Bostrichidae). Journal of Economic Entomology 89: 27-32.

Kambhampati, S., K.M. Kjer and B.L. Thorne. 1996. Phylogenetic relationship among termite families based on DNA sequence of mitochondrial 16S ribosomal RNA gene. Insect Molecular Biology 5: 229-238.

Kambhampati, S., P. Luykx and C.A. Nalepa. 1996. Evidence for sibling species in the wood roach, Cryptocercus punctulatus, from variation in mitochondrial DNA and karyotype. Heredity 76: 485-496.

Kambhampati, S. 1996. Phylogenetic relationship among cockroach families inferred from mitochondrial 12S rRNA gene sequence. Systematic Entomology 21: 89-98.

Kambhampati, S. 1995. A phylogeny of cockroaches and related insects based on DNA sequence of mitochondrial ribosomal RNA genes. Proceedings of the National Academy of Sciences, USA 92: 2017-2020.

Kambhampati, S. and P.T. Smith. 1995. PCR primers for the amplification of four insect mitochondrial fragments. Insect Molecular Biology 4: 233-236.

Scoles, G.A. and S. Kambhampati. 1995. A polymerase chain reaction-based method for the detection of Dirofilaria immitis in mosquitoes and vertebrate hosts. Journal of

Medical Entomology 32: 864-869.

Hiss, R.H., D.E. Norris, C.R. Dietrich, R.F. Whitcomb, D.F. West, C.F. Bosio, S. Kambhampati, J. Piesman, M.F. Antolin and W.C. Black IV. 1994. Molecular taxonomy using single strand confirmation polymorphism (SSCP) analysis of mitochondrial RNA genes. Insect Molecular Biology 3: 171-182.

Postdoctoral:

Kambhampati, S., K.S. Rai and S.J. Burgun. 1993. Unidirectional cytoplasmic incompatibility in the mosquito, Aedes albopictus. Evolution 47: 673-677.

Kambhampati, S., K.S. Rai and D.M. Verleye. 1992. Frequencies of mitochondrial DNA haplotypes in laboratory cage populations of the mosquito, Aedes albopictus. Genetics 132: 205-209.

Kambhampati, S., W.C. Black IV and K.S. Rai. 1992. RAPD of mosquito species and populations: Techniques, statistical analysis and applications. Journal of Medical Entomology 29: 939-945.

Kambhampati, S. and K.S. Rai. 1991. Variation in mitochondrial DNA of Aedes species (Diptera: Culicidae). Evolution 45: 120-129.

Kambhampati, S., W.C. Black IV and K.S. Rai. 1991. Geographic origin of the US and Brazilian Aedes albopictus inferred from allozyme analysis. Heredity 67: 85-94.

Kambhampati, S. and K.S. Rai. 1991. Mitochondrial DNA variation within and among populations of the mosquito, Aedes albopictus. Genome 34: 288-292.

Kambhampati, S. and K.S. Rai. 1991. Temporal variation in the ribosomal DNA nontranscribed spacer of Aedes albopictus. Genome 34: 293-297.

Kambhampati, S. and K.S. Rai. 1991. Patterns of morphometric and allozyme variation in the mosquito, Aedes albopictus. Entomologia Experimentalis et Applicata 60: 193-201.

Kambhampati, S., W.C. Black IV, K.S. Rai and D. Sprenger. 1990. Temporal variation in genetic structure of a colonizing species: Aedes albopictus in the United States. Heredity 64: 281-287.

Graduate School:

Kambhampati, S. and M. Mackauer. 1989. Multivariate assessment of inter- and intraspecific variation in performance criteria of several pea aphid parasites (Hymenoptera: Aphidiidae). Annals of Entomological Society of America 82: 314-324.

Kambhampati, S. and M. Mackauer. 1988. Intra- and interspecific morphological

variation in some Aphidius species (Hymenoptera:Aphidiidae). Annals of Entomological Society of America 81: 1010-1016.

Mackauer, M. and S. Kambhampati. 1988. Parasitism of aphid embryos by Aphidius smithi: Some effects of extremely small host size. Entomologia Experimentalis et Applicata 49: 167-174.

Mackauer, M. and S. Kambhampati. 1988. Sampling and rearing of aphid parasites. In: P. Harrewijn and A.K. Minks (eds.) Aphids, Their Biology, Natural Enemies and Control Volume 2(B). Elsevier Scientific Publications. The Netherlands. pp. 205-216.

Kambhampati, S., M. Mackauer and J.P. Panno. 1987. Evaluation of egg frequency distributions in the pea aphid parasite Aphidius smithi (Hymenoptera: Aphidiidae) by pattern analysis. Annals of Entomological Society of America 80:1-8.

Mackauer, M. and S. Kambhampati. 1986. Structural changes in the parasite guild attacking the pea aphid in North America. In: I. Hodek (ed.) Ecology of Aphidophaga. Academia Press, Prague and Dr. W. Junk, Dordrecht. pp. 347-356.

Kambhampati, S., M. Mackauer and K.K. Nair. 1984. Precocious metamorphosis and wing formation in the pea aphid, Acyrthosiphon pisum, induced by the precocene analogue 7-ethoxy-6-methoxy-2-2-dimethylchromene. Archives of Insect Biochemistry and Physiology 1: 147-154.

Mackauer, M. and S. Kambhampati. 1984. Reproduction and longevity of the cabbage aphid, Brevicoryne brassicae (Homoptera: Aphididae), parasitized by Diaeretiella rapae (Hymenoptera: Aphidiidae). Canadian Entomologist 116: 1605-1610.

EXTRAMURAL FUNDING

Studies on genetic divergence in soybean stem borer, Dectes texanus. PI: S. Kambhampati. Regional Soybean Project (S1010). January 2003-December 2007. $16,500 per year.

Phylogenetics of termites. PI: S. Kambhampati. National Science Foundation, Systematics Program $200,000. March 2000 - February 2004.

Expedition to Asia to collect tehpritid fruit flies. PI: S. Kambhampati. California Department of Food and Agriculture $24,000. May 2000 - April 2001.

Species boundaries in the wood roach, Cryptocercus. PI: S. Kambhampati. National Science Foundation, Systematics Program $150,000. August 1998 - July 2002.

Bactrocera dorsalis complex: Species boundaries and diagnostic markers. PI: S. Kambhampati. California Department of Food and Agriculture $162,000. July 1998 - June 2001.

Biodiversity of symbioses between social insects and microorganisms PIs: M.D. Kane (Smithsonian Institution), B.L. Thorne (University of Maryland), S. Kambhampati, T.R. Schultz (Smithsonian Institution) and U.G. Mueller (University of Maryland). Smithsonian Institution Biological Diversity of the Guianas Program. $8,000 (Field research in Guyana). August 1997.

Facility for macroevolutionary studies of DNA sequences. PIs: W.W. Dimmick (University of Kansas), S. Kambhampati, E.O. Wiley (University of Kansas), D.R. Edds (Emporia State University). National Science Foundation EPSCoR Program. $80,000. October 1997- September 1998. (Purchase of automated DNA sequencer).

Molecular basis of wing polymorphism in the pea aphid. PI: S. Kambhampati. USDA National Research Initiative Competitive Research Grants Program. $23,000. July 1997-June 1999.

Molecular phylogenetics, speciation and evolution of host range in aphidiine wasps. PIs: S. Kambhampati and M. Mackauer (Simon Fraser University). USDA National Research Initiative Competitive Research Grants Program. $114,000. July 1994- June 1998.

Travel grant: National Science Foundation-EPSCoR: PI: S. Kambhampati. Research Stimulation Program Travel Grant (travel to Canada to collect aphids and aphid parasitoids). $2,000. 1994.

Monitoring the distribution of insecticide resistant greenbugs in Kansas. PIs: G.E. Wilde, P. Sloderbeck (Kansas State University) and S. Kambhampati. Kansas Board of Agriculture $18,500. July 1993-June 1994.

Monitoring the distribution and testing insecticides for control of insecticide resistant greenbugs. PIs: G.E. Wilde (Kansas State University), S. Kambhampati and P. Sloderbeck (Kansas State University). Texas Grain Sorghum Producers Board. $9,500. July 1993- June 1994.

Development of a field test for detecting insecticide resistance in cat fleas. PI: S. Kambhampati. Ciba-Geigy, Inc. $5,000, 1994. (Non-competitive).

Insecticide resistance studies in cat fleas. PI: S. Kambhampati. Ciba-Geigy, Inc. $8,000, 1993. (Non-competitive).

RECENT FIELD EXPEDITIONS

1994: British Columbia, Canada. To collect aphids and aphid parasitoids. Funding: USDA NRI grant and NSF-EPSCoR Travel grant.

1997: Guyana, South America. To collect termites. Funding: Smithsonian Institution.

1998,1999, 2001: Appalachian Mountains, eastern United States. To collect Cryptocercus. Funding: NSF.

2000: Southeast and south Asia (Philippines, Brunei, Malaysia, Thailand, Sri Lanka and India). To collect fruit flies of the genus Bactrocera. Funding: California Department of Food and Agriculture.

2002: China. To collect wood-feeding cockroach, Cryptocercus. Funding: NSF.

2003: Northern California: To collect Zootermopsis species. Funding: NSF.

HONORS AND AWARDS

Faculty Development Award, Kansas State University 2004.
Faculty Development Award, Kansas State University 2002.
Elected By-Fellow, University of Cambridge, Cambridge, UK. May-November 1999.
Faculty Development Award, Kansas State University 1998.
Invited Participant, Workshop on Termite Biology, Kyoto University, Japan. March 1997.
Invited Participant, FAO workshop on Insecticide Resistance in Stored Grain Insects, National University of Mexico, Mexico City, Mexico. November 1996.
Faculty Development Award, Kansas State University 1996.
Graduate Research Fellowship, Simon Fraser University 1986, 1987.
Canadian Bureau of International Education Travel Grant, Simon Fraser University 1985.
Simon Fraser University Open Graduate Scholarship, Simon Fraser University 1984, 1985, 1986.
H.R. MacMillan Family Fund Fellowship, Simon Fraser University 1981, 1982, 1983, 1984.
President's Research Grant Stipend, Simon Fraser University 1981, 1987.
GROMOR Merit scholarship, Andhra Pradesh Agricultural University 1976.

SELECTED SEMINAR, PAPER, AND POSTER PRESENTATIONS (over 50 presentations during the past 15 years).

Microsatellite loci for dampwood termites in the genus Zootermopsis (Isoptera: Termopsidae). Annual Meeting of Entomological Society of America, Cincinnati, OH. October, 2003. (Poster presentation with B.T. Aldrich).

Species specific allozyme markers for Appalachian Cryptocercus. Annual Meeting of Entomological Society of America, Cincinnati, OH. October, 2003. (Poster presentation with B.T. Aldrich, E. Krafsur).

Microsatellite markers for the Indian meal moth, Plodia interpunctella (Lepidoptera: Pyralidae). Annual Meeting of Entomological Society of America, Cincinnati, OH. October, 2003. (Poster presentation with T. Grace, Bh. Subramanyam).

Microsatellite markers for the house fly, Musca domestica. Annual Meeting of

Entomological Society of America, Cincinnati, OH. October, 2003. (Poster presentation with S. Chakrabarthi, L. Zurek).

Phylogenetics of termites. XIV International Congress of the IUSSI. Sapporo, Japan. August 2002. (invited presentation).

Evolution of Cryptocercus, the wood-feeding cockroach. Department of Biology, Sichuan University, China. (invited seminar).

Evolution and biogeography of the wood-roach, Cryptocercus. Invited seminar in the Departments of Entomology at Iowa State University (March 2001), Oklahoma State University (March 2001), University of Nebraska (April 2001) and College of Veterinary Medicine, Kansas State University (April 2001).

Termite evolution: Inferences from molecular phylogenetic studies. Joint Annual Meeting of Entomological Society of America and Entomological Society of Canada. Montreal, Canada. December 2000. (Invited symposium presentation).

Molecular analysis of wing polymorphism in aphids. Joint Annual Meeting of Entomological Society of America and Entomological Society of Canada. Montreal, Canada. December 2000. (Invited symposium presentation).

Evolutionary genetics of the wood roach, Cryptocercus. Joint Annual Meeting of Entomological Society of America and Entomological Society of Canada. Montreal, Canada. December 2000.

Evolution of male lure response in Bactrocera fruit flies (Diptera:Tephritidae): A phylogenetic perspective.î Joint Annual Meeting of Entomological Society of America and Entomological Society of Canada. Montreal, Canada. December 2000. (Poster with P.T. Smith).

Phylogenetic analysis of Blattabacterium, endosymbiont of Cryptocercus. Joint Annual Meeting of Entomological Society of America and Entomological Society of Canada. Montreal, Canada. December 2000. (Poster with J.W. Clark).

Evolutionary genetics of the wood roach, Cryptocercus. Department of Entomology, University of Missouri, Columbia, MO. October 2000. (invited seminar).

Molecular Systematics of Insects. Department of Entomology, A.P. Agricultural University, Hyderabad, India. July 2000. (invited seminar).

Molecular Systematics of Bactrocera and related genera. Entomology Division, Thailand Department of Agriculture, Bangkok, Thailand. June 2000. (with P.T. Smith). (invited seminar).

Evolutionary transitions in Aphidiinae (Hymenoptera: Braconidae). IV International

Society of Hymenopterists Congress, Canberra, Australia. January 1999 (Invited symposium presentation).

Molecular phylogenetics of termites. XIII International Meeting of the International Union for the Study of Social Insects, Adelaide, Australia. December 1998. (Invited symposium presentation).

Biochemical techniques for resistance detection and estimation. FAO Workshop on Pesticide Resistance in Stored-Product insects: Evaluation, Status, Management and Education. Mexico City, Mexico. November 1996. (Invited presentation).

Species boundaries in the wood roach, Cryptocercus: DNA sequence, karyotype and mating studies. Department of Entomology, University of Kansas, Lawrence, KS. March 1996.

Contributions and applications of molecular techniques in pest management. XX International Congress of Entomology, Florence, Italy. August 1996. (Invited symposium presentation).

A phylogeny for aphid parasitoids (Hymenoptera: Aphidiidae) based on DNA sequence of mitochondrial 16S rRNA and NADH1 dehydrogenase genes. (Poster; with P.T. Smith and M. Mackauer). XX International Congress of Entomology, Florence, Italy. August 1996.

Genetic analysis of species boundaries in the wood roach, Cryptocercus. Department of Entomology, University of Massachusetts, Amherst. January 1996. (Invited seminar).

Cryptocercus in the United States: How many species are there? National Conference of the Entomological Society of America, Dallas, TX. December, 1994. (Invited symposium presentation).

A phylogeny for species in the odonate genus Libellula with the subgenera Ladona and Plathemis based on DNA sequence analysis of mtDNA genes. National Conference of the Entomological Society of America, Dallas, TX. December, 1994. (Poster with R.E. Charlton and Y.C. Zhu).

Molecular systematics of aphids. National Conference of the Entomological Society of America, Indianapolis, IN. December, 1993. (Invited paper).

Population genetics of Aedes albopictus. Department of Biology, University of Kansas, Lawrence, KS. October 1992.

Molecular tools for the analysis of species and populations. Agriculture Canada Research Station, Harrow, Ontario, Canada. April 1991. (Invited seminar).

Mitochondrial DNA variation within and among populations of the mosquito, Aedes

albopictus. National Conference of the Entomological Society of America, San Antonio, TX. December 1989. (Invited paper).

Inheritance of ribosomal DNA spacer region in Aedes albopictus (Diptera: Culicidae). (with K.S. Rai). Annual meeting of the Entomological Society of America, Louisville, KY. December 1988.

Geographic variation in fecundity of some pea aphid parasitoids in North America. Annual Meeting of the Entomological Society of America. Reno, NV. December 1986.

ADMINISTRATIVE, ADVISORY AND ORGANIZATIONAL EXPERIENCE

Associate Editor: Zootaxa.
Member, Editorial Board: BMC Evolution

Reviewed one or more manuscripts for the following journals: Insect Molecular Biology, Evolution, Gene, Genome, Insect Biochemistry and Molecular Biology, Molecular Biology and Evolution, Canadian Entomologist, Environmental Entomology, Annals of Entomological Society of America, Journal of Medical Entomology, Molecular Phylogenetics and Evolution, Proceedings of the National Academy of Sciences USA, Proceedings of Royal Society of London.

Reviewed one or more grant proposals for: USDA, NSF and various other funding agencies. Served on USDA-NRI Entomology Grant Review Panel 1995. Served on NSF-NATO postdoctoral grants panel 2003.

Graduate advising: Major advisor 5 M.S. and 5 Ph.D. students; 2 postdoctoral fellows. Member of advisory committee 3 M.S. and 7 Ph.D. students. Member of preliminary examination committee: 7 Ph.D. students.

Administrative duties: Served as member and/or chair of the following committees: Steering Committee, Graduate Program in Genetics, Kansas State University 2003-present; departmental Awards Committee, 2001-2003; departmental Public Relations Committee, and Planning Committee 2002-present; Chair of the Systematist Search Committee 1998; departmental Seminar Committee 1992-1995; 1998-2001 (Chair:1994-1995; 1999-2001); departmental Evaluation Protocol Committee 1998-present (Chair, 2000-2001); departmental Museum Maintenance Committee 1997-2000; departmental Graduate Affairs Committee 1995-1998 (Chair 1997-1998); departmental Long Range Planning Committee 1993-1994; Plant Systematist Search Committee, Division of Biology, Kansas State University 1998-1999; Toxicologist Search Committee 1993-1994; College of Agriculture Scholarships and Awards Committee 1995-1998; 2003-present; Kansas State University Biotechnology Task Force 1993-1995; Western Regional Coordinating Committee on Insecticide Resistance Management 1993-1996; Member of the College of Agriculture Committee on Effective Instruction 1998-2000. Organizer: Symposium úGenetics and Molecular Biologyî, National Meeting of the Entomological Society of America, Indianapolis, IN. December, 1993.

Symposium úPhylogenetics and Evolution of Termitesî XII International Meeting of the International Union for the Study of Social Insects, Adelaide, Australia, December 1998.

Book reviews:
"Fundamentals of Molecular Evolution" American Entomologist 39:47
"Aphid Ecology" Bull. Entom. Soc. Amer. 33:195-196.
"Aphid Antagonists" Bull. Entom. Soc. Amer. 31:57-58.