

**ADALGISA (Gisella) CACCONE**  
**Curriculum Vitae**  
**October 2007**

**EDUCATION:**

Università di Roma “La Sapienza”	Biology	Laurea	1978
Yale University	Biology	Ph.D.	1986

**ACADEMIC APPOINTMENTS:**

- 2000-present: Senior Research Scientist, Yale University.  
2005-present: Lecturer, School of Epidemiology and Public Health, Yale University.  
2001-present: Joint Appointment School of Forestry and Environmental Studies, Yale University.  
2000-present: Associate Curator Peabody Museum of Natural History, Yale University.  
1998-present: Lecturer, Department of Ecology and Evolutionary Biology, Yale University.  
1998-present: Director of the “YIBS-Molecular Systematics and Conservation Genetics Laboratory” (YIBS-MSCG Lab).  
1997-1999: Research Scientist, Yale University.  
1987-1997: Ricercatore confermato (equiv. to assist. prof. with tenure), II Università di Roma.  
1992-1997: Associate Research Scientist, Yale University.  
1988-1992: Research Associate, Yale University.  
1986-1988: Postdoctoral Associate, Yale University.  
1984-1987: Ricercatore (equiv to assist. prof. without tenure), II Università di Roma.

**RESEARCH INTERESTS:**

My research interests are in the broad area of molecular evolution, phylogeography, and conservation. Questions that interest me range from understanding the evolutionary processes in small isolated populations to the use of molecular markers to infer current and historical population processes at various spatial and temporal scales. I am question driven rather than organism bound. Thus, I have been working with a variety of invertebrate and vertebrate taxa, ranging from cave crickets, to mosquitoes, beetles, salamanders, fish, birds, tortoises, and primates to name only a few.

Currently I am involved in these general research areas:

- Conservation genetic and phylogeography of several Vertebrate species
- Evolutionary and ecological genetics, emphasis on disease vectors and introduced pests.
- Using ancient DNA analyses to infer historical patterns of genetic differentiation.
- Using novel methods of image reconstruction to infer the 3D shape and form of animals in field conditions.

Please visit the laboratory web page for more detailed information on past and on-going projects (<http://130.132.86.97/labwebsite/Cacconelab.html>).

**TEACHING EXPERIENCE:**

**Yale University:**

Undergraduate and graduate courses taught as sole instructor:

- Lecture course: Molecular Ecology (EEB325).
- Laboratory courses: Molecular Systematic (EEB315-EEB316) and Evolutionary Biology (EEB 226).
- Seminars: Molecular Approaches in Systematics, Conservation Genetics, and Behavioral Ecology (EEB 375), Conservation Genetics (EEB320), Topics in Evolutionary and Conservation Genetics (EEB317).

Other teaching:

- Sections in Conservation Biology (EEB115- EEB515).
- Advisor for research projects for undergraduate and graduate student from various department and schools across campus (EEB, Geology, Anthropology, MCDB -Dept of Molecular and Cell Biology-, FES -School of Forestry and Environmental Studies-, and EPH -School of Epidemiology).

## **II University of Rome (1984-1988):**

Lectures and laboratory sections in Invertebrate Zoology.

Seminar: Molecular Evolution.

## **TRAINING AND ADVISING:**

- 1998-present:

Through the YIBS-MSCG Laboratory I have sponsored the research and supervised the training of more than 80 students and post-doc. They belong to several department and professional Schools, such as Ecology and Evolutionary Biology, Anthropology, Geology, School of Forestry and Environmental Science, School of Epidemiology and Public Health, and the Peabody Museum. I also trained faculty from several departments within the university and a variety of scholars from many different countries, including Korea, China, Japan, India, Israel, Russia, Italy, Portugal, Germany, Netherlands, Belgium, England, Burkina Faso, Uganda, Benin, Madagascar, Argentina, Ecuador, Brazil, New Zealand. Please visit the YIBS-MSCG Laboratory web site to obtain more information on its mission and structure

Web address: (<http://130.132.86.97/labwebsite/Cacconelab.html>).

2003-present: I have established and directed a DNA analysis facility which is geared towards population biologists. We accepted DNA fragments from Yale and non-Yale users and analyze them (Sequence, microsatellite, AFLP, SNP's). We provide also technical and analytical support.

Web address: [http://research.yale.edu/dna\\_analysis/](http://research.yale.edu/dna_analysis/).

1984-1998: At the University of Rome I provided undergraduate and graduate students teaching and training in molecular systematics and molecular evolution.

## **PROFESSIONAL COLLABORATIONS:**

### **Yale and USA collaborations:**

- Yale Ecology and Evolutionary Biology (J.R. Powell, D. Post, M. Smith).
- Yale Geology (J. Gauthier)
- Yale School of Forestry and Environmental Studies -FES (O. Schmitz, D. Skelly)
- Yale Peabody Museum (D. Reese, G. Colwell-Watkins).
- Yale School of Epidemiology- EPH (S. Aksoy, D. Fish, A. Galvani).
- Univ. of Florida, Gainesville, Florida (W. Tabachnick, D. Steadman).
- American Museum of Natural History, New York (G. Amato).
- State University of New York, Syracuse, NY (J. Gibbs).
- Univ. of New Mexico, Albuquerque, NM (H. Snell).
- Princeton University, Princeton NJ (M. Wikelski).
- National Museum of Natural History, Washington DC (R. Fleischer, G. Zug).

### **International collaborations:**

- Univ. di Roma Tor Vergata", Rome, Italy (V. Sbordoni, G. Allegrucci, D. Cesaroni, G. Gentile).
- Univ. di Roma "La Sapienza", Rome, Italy (M. Coluzzi, A. della Torre, F. Santolamazza).
- Università di Ferrara, Ferrara, Italy (G. Bertorelle).
- Università di Siena, Siena, Italy (F. Giusti).
- Free University of Bruxelles, Bruxelles, Belgium (M. Milinkovitch).
- University of Mons-Hainaut, Mons, Belgium (D. Lanterbecq).
- Universidade Nova de Lisboa, Lisboa, Portugal (J. Pinto).
- University of Kent, Kent, England (I. Swingland).
- University of Leeds, Leeds, England (S. Goodman).

- Liverpool School of Tropical Medicine, Liverpool , England (M. Donnelly).
- Institute of Zoology, London, England (A. Cunningham).
- Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany (M. Hofreiter).
- University of Potsdam, Postdam, Germany (V. Ketmeier).
- University of Bielfeld, Bielfeld, Germany (S. Steinfartz).
- University of Crete and Crete Natural History Museum, Greece (E. Zouros, M. Mylonas).
- National Nutuurhistorisch Museum, Amsterdam, The Netherlands,(P. Artzen).
- Ben Gurion University, Tel Aviv, Israel (O. Ovadia).
- Center National de Rec. et de Form. sur le Paludisme, Burkina Faso (N. Sagnon, C. Costantini).
- Laboratoire de Entomologies, OCEAC, Cameroon (F. Simard).
- University of Antananarivo, Madagascar (O. Ramilijaona).
- National Livestock Health Research Institute, Tororo, Uganda (L. Okedi, P. Abila)
- The Nature Protection Trust of Seychelles, Seychelles (J. Gerlach).
- University of Amazonas, Brazil (M. Chao).
- MacGuire University, Sideney, Australia (L. Beheregaray).
- Charles Darwin Research Station, Pt. Ayora, Galapagos, Ecuador (C. Marquez, B. Milstead).
- Univ. of Quayaquil, Quayaquil, Ecuador (V. Cedeno).
- Galápagos National Park, Pt. Ayora, Galapagos, Ecuador (W. Tapia).

**MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

The Society for the Study of Evolution (SSE), Society for Molecular Biology and Evolution (MBE), Society of Systematic Biologist (SSB), Conservation Biology, American Genetic Association (AGA), European Society for Evolutionary Biology (ESEB), Unione Zoologica Italiana (UZI), Societa' Italiana di Biogeografia (SIB). Italian Society for Evolutionary Biology (SIBE).

**ASSOCIATE EDITOR:** Molecular Phylogenetics and Evolution (2000-2006); Conservation Genetics (2002-present), BMC Evolutionary Biology (2005-present), Zoo Biology (1998-present).

**REVIEWER:**

Journals: Evolution, Genetics, Molecular Ecology, Biology Journal, American Journal of Tropical Medicine and Hygiene, Molecular Biology and Evolution, Journal of Molecular Evolution, Systematic Biology, Insect Molecular Biology, Molecular Ecology, Molecular Phylogenetics and Evolution, Journal of Experimental Zoology, Zoo Biology, Proceedings of the Royal Society, Bollettino di Zoologia, International Journal of Speleology, PNAS, Journal of Entomology. .

Granting agencies: NSF Systematic Biology, Population Biology, Behavioral Biology Panels, EEC and NERC grants.

**MASTER THESIS ADVISOR:** V. Sbordoni (Un. of Tor Vergata, Rome, Italy).

**Ph.D. ADVISOR:** Jeffrey R. Powell (Yale University).

**UNIVERSITY COMMITTEE:** IACUC committee

**UNDERGRADUATE, GRADUATE STUDENT, POST-DOC AND FACULTY TRAINING (1986-1998):**

N. Besansky, M. Milinkovitch, C. Anderson, E. Carew, C. Cunningham, J. Gleason, K. Goddard, K. White, L. Strausbaugh, A. Benson, D. Cesaroni, C. Yoon, F. Venanzetti, L. Nigro, A. Sansotta, C. Fortunato, B. Garcia, GS Min, O. Gatry, J. Gibbs, C. Bernardini, L. Hatch, J. Betts.

**HIGH SCHOOL STUDENTS TRAINING:** G. Genecin (junior), **Deborah Smith (junior)**, Teake (junior), Zachary Newick (junior).

**UNDERGRADUATE SENIOR THESIS ADVISOR or RESEARCH MENTOR (1998-present):** J. Firman, W. Bergman, M. Mendez, A. Reitman, S. Punyyasena, J. Oomen, J. Tom, M. Ruelle, F. Terrell, J. Rosa, M. Shirley, E. Tennyson, L. Bozzi, J. Kayman, A. Oppenheimer, D. Wei, D. Call, L. Ching, B. Harter, M. Garren, J. Dunn, K. Lin, R. Catapano-Friedman, L. Young, C. Palma, C. Guss, M. Farmer, C. Hyseni, G. Mulvey, C. Blue Arm, C. Almendarez, J. Votava, S. Harris, B. Kim, B. Jerkins, N. Ayache, A. Chiu, A-C Jackins, K. Dion, J. Luna, G. Bradburn, J. Guo, M. Avolio, Leon Noel, Temesgen Sahle, W. Coutard.

**GRADUATE STUDENTS THESIS COMMITTEE and ADVISING (Master and Ph.D students Yale University, 1998-present):** R. Lawler (Anthropology), K. Saltonstall (EEB), M. Slotman (EEB), P. Olandt (EEB), E. Suatoni (EEB), C. Burns (EEB), E. Palkovacs (FES and EEB), M. Garcia (EEB), S. Vicario (EEB), G. DeMartino (EEB/MCDB), T. Hanley (EEB), L. Thompson (EEB), V. Saranathan (EEB), C. Chang (EEB), N. Kelly (EEB), S. Glaberman (EEB), N. Havill (EEB), O. Balmer (EEB), C. Dunn (EEB), Jeaneric Rakotoarisoa (EEB), J. Brown (EEB), K. Komatsu (EEB), R. Roth (FES), R. Mandez-Treneman (FES), M. Booth (FES), E. Gladyshev (FES), A. Halverson (FES), J. Richardson (FES), K. Kidd (FES), Rita Rio (EPH), R. Dinglsan (EPH), Anne Gatewood (EPH), Lee Cohnstaedt (EPH), M. Reddy (EPH).

**EXTERNAL THESIS REVIEWER (1998-present):** C. Douady (Un. of Lyon, France), Ryan Garrick, Monash Un., Melbourne (Australia).

**POST-DOC AND FACULTY TRAINING (1998-present):** G. Gentile, G. Allegrucci, L. Xue, G. Romano, T. Pinou, J. Gleason, L. Beheregaray, L. Moller, C. Ciofi, E. Sezzi, S. Livi, M. Moreno, A. Surkov, MB. Decker, M. Russello, R. Blake, O. Ovadia, J. Lee, S. Steinfartz, J. Marshall, D. Lanterbecq, S. Chang, T. Langkilde, A. Paramakelis, N. Poulakakis

**OTHER PROFESSIONAL ACTIVITIES:**

- Director of the DNA Analysis Facility on Science Hill.  
[http://research.yale.edu/dna\\_analysis/](http://research.yale.edu/dna_analysis/) (2003-present)
- Council member Society for the Study of Evolution (SSE) (2006-2008)
- Chair of the SSE International Affair Committee (SSE) (2006-present).
- Council member of the IUCN Species Survival Commission (SSC) Tortoise and Freshwater Turtle Specialist Group (TFTSG) (2007- present).
- Co-organizer of the Third International Conservation Genetics symposium. AMNH, New York, NY 27-29 Sept. 2007.
- Co-organizer of the Conservation Genetics Workshop in Galapagos, Ecuador. 9-18 December, 2007.
- Scientific Fellow of the Wildlife Conservation Society (1998-present).
- Council member American Genetic Association (AGA) (2004-2006).
- Vice-President Italian Society for Evolutionary Biology (2005-2006).
- Organizing Committee for the Molecular Biology and Evolution Meeting (MBE 2000).
- Conservation Science Panel member of SEI (Sustainable Ecosystem Institute).
- 1981: Italian translation of "Evolutionary Biology" by D.J. Futuyma, Zanichelli publ.
- 1982: Italian translation of "Evolving" by F.J. Ayala and J.M. Valentine, Zanichelli publ.

**INVITED TALKS AT SCIENTIFIC MEETINGS AND SYMPOSIA:**

1988: "Higher primate phylogeny: a comparison of molecular approaches". Systematic theories, classification methodologies and phylogenies". LII Congresso Nazionale dell' Unione Zoologica Italiana. Camerino, ITALY.

- 1989: "Extreme rates and heterogeneity in Insect DNA evolution". Symposium: "DNA-DNA Hybridization and Evolution" Conference organized by "The Center for the Study of Evolution and the Origin of life", UCLA. California, USA.
- 1989: "Rates and patterns of scDNA divergence in Insects". Symposium: "Molecular phylogenies" II Congress of the European Society for Evolutionary Biology (ESEB). Rome, ITALY.
- 1990: "The TEACL method of DNA-DNA hybridization: its potential." Molecular systematics" NATO-ASI workshop. Norwich, England.
- 1993: "Mitochondrial DNA phylogeny in salamanders". Symposium on "Molecular phylogenies". Fourth Congress of the European Society for Evolutionary Biology. Montpellier, France.
- 1995: "The *Anopheles gambiae* complex: contrasting phylogenies from nuclear and mitochondrial DNA sequences in mosquitoes". Fifth Congress of the European Society for Evolutionary Biology. Edinburgh, Great Britain.
- 1996: "Gene trees, chromosome trees, species trees: molecular phylogenies in the *Anopheles gambiae* complex". XX International Congress of Entomology. Florence, Italy.
- 1996: "A molecular phylogeny for the *Drosophila melanogaster* subgroup". XX International Congress of Entomology. Florence, Italy.
- 1997: "Evoluzione molecolare nel complesso *Anopheles gambiae*: conflitto tra geni nucleari e mitocondriali". Symposium "Approcci molecolari alla sistematica ed evoluzione degli Insetti" organized by the Accademia Nazionale di Entomologia, Florence 28 November 1997.
- 1998: Malariology Centenary Conference "The Malaria Challenge after One Hundred Years of Malariology". Accademia Nazionale dei Lincei, Rome, Italy. 16-19 November 1998.
- 1999: "Using molecular markers to identify units of conservation". Endangered Species Symposium- Genetic and Information Resources in the Next Millennium organized by ATCC, American Type Culture Collection, Orlando, FL, USA. 18-19 April 1999.
- 1999: "Extracting genetic information from stored tissues and specimens with an example from Galapagos tortoises". Symposium: Museum, Universities, and Biodiversity in the 21<sup>st</sup> century. California Academy of Sciences and Stanford University. Stanford, CA, USA. 7-9 May 1999.
- 1999: "Where do the Galapagos tortoises come from? A phylogeny based on mtDNA data". Symposium on the "Evolutionary significance of colonization" organized within the VII ESEB Congress. Barcelona, Spain. 23-28 August 1999.
- 1999: "The evolutionary origins of giant Galapagos tortoises". Symposium: "Biodiversita' genetica e tassonomica negli ecosistemi". IX Confesso S.It.E. (Societa' Italiana di Ecologia). Lecce, Italy. 14-17 September 1999.
- 2000: "Divergenza evolutiva nelle tartarughe delle Galapagos". 61 Congresso Nazionale Unione Zoologica Italiana. S. Benedetto del Tronto, Italy. 24-28 Settembre 2000.
- 2002: "Contrasting molecular population genetics patterns between the last two lineages of giant tortoises". Symposium; Biodiversity and Evolution. June 16, 2002. Molecular Evolution: Evolution, Genomic, Bioinformatics. Sorrento, Italy June 13-16 2002.

- 2003: Taxonomy and DNA. The Banbury Center, Cold spring Harbor laboratory. March 9-12 2003
- 2003: " Evolutionary Genetics of Giant Tortoises: implications for conservation". Symposium: Conservation Genetics.XIX International Congress of Genetics, 6-12 July 2003, Melbourne, Australia.
- 2003: " Conservation genetics in reptiles: lessons from Giant tortoises and Komodo Dragons".International Workshop: Population Genetics for Animal Conservation. Monte Bondone, Trento, Italy. September 4-6, 2003.
- 2003: Taxonomy, DNA, and the Barcode of Life, Banbury Center, T Cold Spring Harbor Laboratory, September 10-12, 2003.
- 2006: "Giant Tortoises : Using DNA to help understand their past and protect their future" American". Darwin at AMNH symposium. American Museum of Natural History, New York, NY. 2 February. 2006
- 2007: "What we do not know might hurt us: using DNA barcodes for cryptic species and individual identification". Workshop: "Molecular Biodiversity and DNA Barcode" Acc. Naz. dei Lincei. Rome, Italy 17-19 May 2007.

#### **INVITED SEMINARS:**

- 1987: "Molecular divergence in North American cave crickets". Dipartimento di Biologia II Università di Roma.
- 1990: "Rates of molecular divergence in *Drosophila*". Department of Biology. Yale University.
- 1990: "Rates and patterns of scDNA evolution in *Drosophila*". Department of Biology, Harvard University.
- 1992: "RAPD polymorphisms in evolutionary biology: their use and abuse". Dipartimento di Biologia, II Università di Roma.
- 1994: "Molecular biogeography: testing molecular rates in European newts". Department of Biology, Yale University.
- 1996: "Molecular evolutionary genetics of African Malaria vectors". Department of Biology, Yale University.
- 1997: "Gene trees, chromosome trees and species trees: an example in *Anopheles* mosquitoes". University of Tubingen. Tubingen, Germany
- 1997: "Genetica evolucionistica del principale vettore di malaria in Africa: le zanzare del complesso *Anopheles gambiae*". Dipartimento di Biologia. Università di Padova. Padova, Italy.
- 1998: "From mosquitoes to giant tortoises: studying evolutionary patterns and conservation questions using DNA". Department of Ecology and Evolutionary Biology, Yale University.
- 1998: "Studying evolutionary patterns and conservation questions using DNA data". Department of Anthropology, Yale University. 12 November 1998.
- 1998: "Molecular evolution of the main vector of malaria in Africa, the *Anopheles gambiae* complex". School of Epidemiology and Public Health, Yale University. 11 December 1998.
- 1998: "Le tartarughe giganti delle Galápagos: filogenesi molecolare e genetica della conservazione". Dipartimento di Biologia Cellulare e dell'Uomo. Università di Roma "La Sapienza". Rome, Italy. 18 December 1998.

- 2000: "Evolutionary origin of Galápagos tortoises: using living and museum specimens to study patterns of DNA divergence". Connecticut College, New London, CT USA. 27 April 2000.
- 2000: "Divergenza evolutiva nelle tartarughe delle Galápagos: un esempio dell'utilità dei dati molecolari in specie a rischio di estinzione". Università di Viterbo "La Tuscia", Viterbo, Italy. 19 December 2000.
- 2001: "Tales from two oceans: Evolutionary genetics of Galápagos and Aldabra tortoises". University of California at Berkeley. Museum of Comparative Zoology. 15 May 2001.
- 2002: "Evolutionary genetics of giant Galápagos tortoises". Department of biology University of California at Los Angeles. July 2002.
- 2002: "Tales from two oceans; evolutionary genetics of Giant Galápagos and Aldabra tortoises" October 4, 2002. YIBS/ESC Friday seminar series. Yale University.
- 2002: "Evolutionary Genetics of Giant Galápagos tortoises" National Zoo. Washington, DC. October 2002.
- 2002: "Can Genetic Studies Help Ensure the Survival of the Last Giant Tortoises on Earth?" Dept of Ecol and Evol Biology. Un. of Connecticut.
- 2003: "Conservation Genetics of Giant Galápagos tortoises". Charles Darwin Foundation, Galápagos Islands, Ecuador. May 2003.
- 2004: "The contribution of DNA data to environmental and biodiversity studies" School of Forestry and Environmental Studies, Yale University.
- 2004: "Molecular analysis of extinct giant and dwarf mammals of the Mediterranean region". Peabody Museum of Natural History, Yale University. 15 June 2004.
- 2004: "Using DNA Data to Look Into the Past, Understand the Present and Help Manage the Future of the Two Last Giant Tortoises on Earth". Dept. of Biology, Un. of Roma II, Rome, Italy. June 2004.
- 2004: "Using DNA Data to Look Into the Past, Understand the Present and Help Manage the Future of the Two Last Giant Tortoises on Earth". Stamford Un. Palo Alto, Ca.
- 2005: "Past, present and future of aDNA work in our lab". Dept. of Ecology and Evolutionary Biology, Yale University. May 2005.
- 2005: "Can We Extract DNA from Museum Specimens? And if so, what can we learn?" YIBS Seminar, New Haven, CT.
- 2006: "Using DNA information from Extant and Extinct taxa: a tool for Environmental, Conservation, and Epidemiological Studies". Department of Biological and Environmental Sciences. Western Connecticut State University
- 2007: "The Use of Evolutionary Genetics and DNA Analyses to Understand the Population Biology of Vectors". School of Epidemiology and Public Health (Yale University).
- 2007: "The use of evolutionary genetics in epidemiology and invasion biology". NIH Fogarty program web-based seminar.

**PAST RESEARCH SUPPORT (since 2000):**

- 1998-2001: EEC (European community): "Molecular Analysis of chromosome polymorphisms in the *Anopheles gambiae* species complex" (co-PI: Caccone).
- 2000-2005: NIH-RO1 Gene Exchange Between African Malaria Vectors (Caccone, collaborator).

- 2000-2001: Howard Hughes Medical Institute. Grant for teaching support for a new laboratory course “Laboratory in Molecular Systematics” (PI: Caccone).
- 2000-2002: TDR-WHO: Molecular genetic studies of malaria vector heterogeneity” (PI: Caccone).
- 2001: Connecticut Sea Grant College Program:” Inventory of marine rotifers of the East Coast” (Ph.D. thesis E. Suatoni; PI: Caccone).
- 2002-2005: Funds from the Ministero della Ricerca scientifica (Italy):” Conservtion genetics of Galápagos land iguanas” (co-PI Caccone).
- 2003-2005: Niarchos Foundation: “Using aDNA to reconstruct the phylogeographic of extinct taxa in the Mediterranean islands” (PI: Caccone).
- 2003-2004: Yale Genomic Center: “Establishing a cryo-laboratory in the Peabody Museum”.
- 2003-2005: USDA: “Molecular Phylogeography of the Hemlock Woolly Adelgid, *Adelges Tsugae*, to Determine it's Native Range” (PI: Caccone).
- 2003-2004: Research funds from the Scripps Institute of Oceanography to work on genetic aspects of co-evolution of corals and green algae (PI: Caccone).
- 2004-2006: National Geographic Society: "Conservation genetics of Galapagos marine iguanas" (PI: Caccone).
- 2005 Cave Research Foundation: “ Phylogeny and molecular dating of a morphologically diverse group of troglobiont Coleoptera”. (PI: Caccone).
- 2005-2006: Project AWARE Foundation: “Conservation Genetics of Galapagos Marine iguanas”(PI: Caccone)..
- 2005-2006: US Fish and Wildlife: “ A molecular genetic study to determine the taxonomic status of the saltwater, *Crocodylus porosus*, in the republic of Palau, Western Caroline Islands”. (PI: Caccone).
- 2005-2007: The Paul and Bay Foundation: “Preserving genetic diversity of the past, present, and future: implications for the conservation management of the Giant Galapagos tortoises”(PI:Caccone).

#### **ACTIVE RESEARCH SUPPORT:**

- 2005-2010: NIH/NIAID: RO1: “Genetic studies of African Anopheles vectors of malaria” (co-PI: Caccone).
- 2008-2013: NIH/NIAID RO1: “Evolutionary Genetics of tsetse and its Symbionts”.(co-PI:Caccone)..
- 2005-2007: NGS-National Geographic Society: “Conservation genetics of Galapagos marine iguanas”. (PI:Caccone).
- 2005-2007: America Genetic Association: “Workshop: Conservation Genetics in Galapagos”. (co-PI:Caccone).Galapagos, Ecuador. December 2007.
- 2005-2008: NSF- Major Instrumentation grants: “A high-throughput DNA analyzer for comparative population genomics”. (PI: Caccone)..
- 2006-2007: American Genetic Association: Third International Conservation Genetics Symposium. September 2007. New York, NY. (Co-PI: Caccone).
- 2006-2008: NGS-National Geographic Society: “Getting to know a newly discovered lineage of Galapagos tortoises”. (PI: Caccone)..
- 2006-2009: WHO-TDR: “Malaria vectors in islands, studies on genetic isolation” (co-PI: Caccone).

- 2006-2009: USDA Forest Service: “Enhancing biological control of Hemlock Woolly Adelgid using molecular methods to identify natural enemies.”(PI: Caccone)..
- 2007-2008: Medical Care and Development International (MCDI)/Marathon Oil. Ecological, behavioral and insecticidal resistance determinants of anti-vector intervention success on Bioko Island and mainland Equatorial Guinea. (Caccone: co-PI).
- 2007-2009: The Bay and Paul Foundation: “Merging DNA and Field Studies to Manage Giant Galápagos Tortoises: Looking for a Mate for Lonesome George”. (PI: Caccone).
- 2007-2009: US Dept. of Agriculture: “Population genetics of the hemlock woolly adelgid”. (PI:Caccone)..
- 2008-2010: NIH/NIAID Fogarty Training Grant: “Tsetse transmitted African trypanosomiasis”. (Co-PI: Caccone).
- 2008-2010: NIH/NIAID Fogarty Training Grant: Vector/Host-Parasite Interface of *Leishmaniasis* in Colombia” (co-PI: Caccone).

**PENDING RESEARCH SUPPORT AND AWARDS:**

- 2007-2009: National Geographic Society:“Looking for a Mate for Lonesome George, the last Giant Galapagos tortoise from the island of Pinta”. (co-PI: Caccone).
- 2008-2013: NIH/NIAID: RO1: “*Aedes aegypti*: Genetic Diversity and Dengue Competence” (Co-PI: Caccone)..
- 2008-2010: NSF: “Optical Capture Methods for 3D Reconstruction of Animal Forms”. (co-PI: Caccone)..
- 2008-2010: Rolex Foundation. 2008 Rolex Award for Enterprise: “Rescuing Lonesome George from the Brink of Extinction (PI: CACCONE).