

Guha Dharmarajan

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PROFESSIONAL INTERESTS:

Empirical and theoretical aspects of disease ecology, epidemiology, population genetics, conservation genetics and applied wildlife genetics.

EDUCATIONAL QUALIFICATION:

- M.V.Sc. 1997. Wildlife Science, Madras Veterinary College, Tamil Nadu Veterinary and Animal Science University, Madras, Tamil Nadu, India.
- B.V.Sc. 1997. Madras Veterinary College, Tamil Nadu Veterinary and Animal Science University, Madras, Tamil Nadu, India.

HONOURS AND AWARDS:

- Bilsland Dissertation Completion Grant (August, 2007): Purdue University.
- Frederick N. Andrews Doctoral Fellowship (August, 2002): Purdue University.
- Animal Welfare Scholarship (May, 2000): Ministry of Social Justice and Empowerment, Govt. of India.
- TANVASU Merit Scholarship for Post Graduate Studies (August 1997): Tamil Nadu Veterinary and Animal Sciences University.

PROFESSIONAL SOCIETIES:

- Member, Association of Indian Zoo and Wildlife Veterinarians.
- Member, Indian Society for Veterinary Epidemiology and Preventive Medicine.
- Member, Tamil Nadu Veterinary Council.

PRESENTATIONS:

- Dharmarajan, G., J. C. Beasley, J. A. Fike and O. E. Rhodes Jr. 2007. Are raccoons as successful as they seem? Forestry and Natural Resources Research Symposium. West Lafayette, Indiana.
- Dharmarajan, G., J. C. Beasley, J. A. Fike and O. E. Rhodes Jr. 2006. Genetic insights into the population dynamics of the raccoon (*Procyon lotor*). Forestry and Natural Resources Research Symposium. West Lafayette, Indiana.

- Dharmarajan, G., Emily K. Latch and Olin E. Rhodes, Jr. 2005. Performance of assignment methods at low levels of genetic differentiation among populations. Forestry and Natural Resources Research Symposium. West Lafayette, Indiana.
- Dharmarajan, G. and Olin E. Rhodes, Jr. 2004. Development of molecular markers for the raccoon roundworm: trials and tribulations. 65th Annual Midwest Fish and Wildlife Conference, Indianapolis, Indiana. Dec. 12-15, 2004
- Dharmarajan, G. and Olin E. Rhodes, Jr. 2003. Genetic stories straight from the gut: The population genetics of *Baylisascaris procyoni*. West Lafayette, Indiana.
- Dharmarajan, G. 2002. Interspecific transmission of helminths at the wildlife-cattle interface: A perspective from Mudumalai Wildlife Sanctuary, Southern India. Veterinary Workshop on Management of Rare and Endangered Wild Animals and their Neonatal care. Trivandrum, Kerala, India.
- Dharmarajan, G. and M. C. John. 2001. Effect of season on helminth loads in wild herbivores in the Mudumalai Wildlife Sanctuary, Tamil Nadu. XII National Conference of Veterinary Parasitology, Tirupathi, Andhra Pradesh, India.
- Dharmarajan, G., M. G. Jayathangaraj, M. C. John and Baskaran. 2000. Nephritis in a Tigress. Third Annual Convention of the Indian Society for Veterinary Epidemiology and Preventive Medicine and the National Symposium of "Sustainable Animal Health for 2000 and Beyond", Coimbatore, Tamil Nadu, India.

PEER REVIEWED PUBLICATIONS:

- Barr, K. R., G. Dharmarajan, O. E. Rhodes, Jr., R. L. Lance and P. L. Leberg. 2007. Novel microsatellite loci for the study of the black-capped vireo (*Vireo atricapillus*). Mol. Ecol. Notes, in press.
- Anderson, S. J., J. A. Fike, G. Dharmarajan, and O. E. Rhodes, Jr. 2007. Characterization of 12 polymorphic microsatellite loci for eastern chipmunks (*Tamias striatus*). Mol. Ecol. Notes, 7: 513-515.
- J. A. Fike, A. M. Drauch, J. C. Beasley, G. Dharmarajan and O. E. Rhodes, Jr. 2007. Development of fourteen multiplexed microsatellite loci for raccoons (*Procyon lotor*). Mol. Ecol. Notes, 7: 525-527.
- Latch, E. K., G. Dharmarajan, J. C. Glaubitz and O. E. Rhodes, Jr. 2006. Relative performance of Bayesian clustering software for inferring population substructure and individual assignment at low levels of population differentiation. Cons. Genet., 7: 295-302.
- Beheler, A. S., J. A. Fike, G. Dharmarajan, O. E. Rhodes, Jr and T. L. Serfass. 2005. Ten new polymorphic microsatellite loci for North American river otters (*Lontra canadensis*) and their utility in related mustelids. Mol. Ecol. Notes, 5: 602- 604.
- Dharmarajan, G., M. Raman and M. C. John. 2005. Effect of season on helminth loads in wild herbivores and cattle in the Mudumalai Wildlife Sanctuary, Tamil Nadu. Zoos' Print J., 20: 1766-1769.

- Dharmarajan, G., M. Raman and M. C. John. 2004. Are worms affected by host ecology? A perspective from Mudumalai, Southern India. *J. Bombay Nat. Hist. Soc.*, 101: 399-402.
- Dharmarajan, G., M. Raman and M. C. John. 2003. Effect of habitat and cattle grazing on helminth community structure in chital. *Indian Vet. J.*, 80: 984-987.
- Dharmarajan, G., M. Raman and M. C. John. 2003. Effect of habitat and cattle grazing on helminth loads of chital (*Axis axis*) in Mudumalai Wildlife Sanctuary, Southern India. *J. Bombay Nat. Hist. Soc.*, 100: 58-64.
- Nambi, A.P., M. G. Jayathangaraj, P. S. Thirunavakarasu, M. Raman and G. Dharmarajan. 1998. Strongyloidosis in a bonnet macaque (*Macaca radiata*)- A case report. *Indian J. Vet. Med.* 13: 64-65.

#### POPULAR ARTICLES:

- Dharmarajan, G., The good earth- I. *The Statesman*, July 16, 2001. pg 6
- Dharmarajan, G., The good earth- II. *The Statesman*, July 17, 2001. pg 6
- Dharmarajan, G., Wildlife health: are we missing the forest for the trees? *Sanctuary-Asia*, October, 2001. pp 88-89.
- Dharmarajan, G., Jazz and Conservation. *Rock Street Journal*, November 2001.

#### EXPERIENCE:

- Research and Training:
  - Graduate student, Department of Forestry and Natural Resources, Purdue University, IN, USA, (August 2002- present). Presently interested in the disease ecology of raccoons (*Procyon lotor*).
  - Course participant, "Envirovet Summer Training Institute", College of Veterinary Medicine, University of Illinois, Urbana-Champaign, IL, USA (June 14- July 26, 2002). Training at Florida and Kenya in terrestrial/ aquatic wildlife and ecosystem health in developed and developing country contexts.
  - Research Assistant, Centre for Ecological Sciences, Indian Institute of Science, Bangalore, India (September 2000- April 2002). Studied elephant ecology in the highly fragmented habitats of North Bengal, India, a region having severe human-elephant conflict and helped in the preparation of a conservation action plan for this region.
  - Course Participant, "Wildlife Capture Course", Price Forbes Chair in Wildlife Diseases, Faculty of Veterinary Science, University of Pretoria, Pretoria, South Africa (May 19-27, 2000). Training at Kruger National Park, South Africa, in chemical and physical capture/restraint of wildlife.
  - Trainee, South Africa National Parks, Pretoria, South Africa and Kenya Wildlife Service, Nairobi, Kenya (May 28- August 5 and August 6-19, 2000 respectively). Self organized training, with sponsorship from the Department of Social Justice and

Empowerment, Government of India, in techniques related to wildlife management and health at individual and population levels at various protected areas in South Africa (Kruger, Hluhluwe-Umfolozi, Richtersveld National Parks) and Kenya (Nairobi and Tsavo East National Parks).

- Post-graduate Scholar, Madras Veterinary College, Tamil Nadu Veterinary and Animal Science University, Madras, India (May 1999- January 2000). Master's research on "Epidemiology of helminth parasites in wild and domestic herbivores at the Mudumalai Wildlife Sanctuary, Tamil Nadu". Studied interspecific differences in helminth distributions in relation to host physiology and ecology and inter-specific transmission of helminths at the cattle- Axis deer (*Axis axis*) interface.
- Intern, Aringar Anna Zoological Park, Madras, India (August 1998- February 1999). Training (as a part of the MVSc. course at Madras Veterinary College) in techniques related to captive wildlife management and health.
- Intern, Nammakkal Veterinary College and Hosur Livestock and Agricultural Farm, Tamil Nadu Veterinary and Animal Sciences University, Madras, India (January 1997- July 1997). Training (as a part BVSc. course) in clinical medicine and farm management.
- Volunteer:
  - Have volunteered at various institutions/ protected areas in India, including Aringar Anna Zoological Park (AAZP), Madras Snake Park Trust, Mudumalai Wildlife Sanctuary and National Park (MWLSNP) in Tamil Nadu; Bandipur National Park in Karnataka; National Zoological Park (NZP) at Delhi; Buxa Tiger Reserve and Jaldapara Wildlife Sanctuary in West Bengal. Thus have been fortunate to be actively involved in the immobilization/ capture, treatment and post mortem examination of many species of wild/ captive animals. Was integral to two wildlife translocations: that of an adult male elephant (from AAZP to MWLSNP; January 1999), and several cervids (from a private deer park to the NZP; May 1998). Participated in two major wildlife census operations undertaken by the Tamil Nadu Forest Department and Nilagiri Wildlife and Environment Association, at MWLSNP and Mukurti National Park (May and June 1999). Was actively involved in immobilization of mongooses during a survey for *Leptospira* antibodies in and around Guindy National Park, Tamil Nadu (January-June 1997).
- Organization:
  - Lead a hands-on training workshop on the isolation and development of polymorphic microsatellite markers at Purdue University (June, 2005). During the workshop we successfully characterized novel microsatellites for 3 bird, 2 mammal and 2 parasite species.
  - Member of the organizing committee for the "Workshop on chemical capture of elephants" held at the Buxa Tiger Reserve, West Bengal, India (14 – 16 January 2001).
  - Member of the organising committee and assisted in the fundraising of an intercollegiate sports competition, Nikosia '96, held at the Madras Veterinary College.