Curriculum Vitae

Name: **Cort L. Anderson**

Work address:

College of Natural Resources
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Education:
University of Chicago, Chicago, IL 60637
B.A. with honors, June, 1982
Yale University, New Haven, CT 06520
Ph.D. in Biology, January 1991

Academic honors and appointments:
Visiting Fellow, University of Melbourne, 1982.
Yale University Fellow, 1984-1986.
Research Fellow, Biology Dept., Yale University, 1986-1990.
Howard Hughes Medical Institutes Research Fellow, Yale University, 1991-1994.
Research Assistant, Imperial College, University of London, 1995-1999.
Postdoctoral Fellow, Dept of Organismal Biology and Anatomy, University of Chicago, 1999-2001.
Asst. Research Professor, Dept of Fish and Wildlife Resources, College of Natural Resources, University of Idaho, 2004-present.
Co-Director, Center for Research on Invasive Species and Small Populations (CRISSP), 2007-present.

Research and professional experience:

8/2004-present

Asst. Research Professor, Dept of Fish and Wildlife Resources, College of Natural Resources, University of Idaho and Manager, Laboratory for Conservation and Ecological Genetics, College of Natural Resources, University of Idaho.

10/2001-7/2004

Research Scientist and Manager, Laboratory for Conservation and Ecological Genetics, College of Natural Resources, University of Idaho.

2/2001-6/2001

Research consultant, phylogenetics and molecular taxonomy, Museum Alexander Koenig, Bonn, Germany.

3/1999-2/2001

Research assistant, gene expression in *Wolbachia* infected fruitflies, Department of Organismal Biology and Anatomy, University of Chicago.

1995-1998

Postdoctoral fellow, phylogenetics and molecular taxonomy of myxozoan parasites, Imperial

College, University of London, Dept. of Biology.

1994-1995

Postdoctoral fellow, phylogenetics and molecular taxonomy, Zoologisches Institut, J.W. Goethe Universität, Frankfurt, Germany.

1991-1994

Postdoctoral fellow, directed evolution of model proteins, Howard Hughes Medical Institutes, Yale University.

1984-1990

Graduate student at Yale University, under the direction of Dr. J. R. Powell. Thesis title: Genome Evolution in the *Drosophila willistoni* Species Group and Evolution of the *Adh* locus in *Drosophila*.

1982-1983

Ornithology field research assistant, with Dr. Gerry Borgia, in New South Wales, Australia.

Languages: English, German

Peer-reviewed publications

Newcombe G, A. Shipunov, S. Eigenbrode, A. Raghavendra, H. Ding, C. Anderson, R. Menjivar, M. Crawford, M. Schwarzländer. Endophytes influence protection and growth of an invasive plant. Commun Integr Biol. 2009; 2(1):29-31.

Szûcs M., C. L. Anderson, and M. Schwarzländer. 2009. Landscape genetics and climatic associations of flea beetle lineages, and implications for biocontrol of tansy ragwort. In *Proceedings of the XIIth International Symposium on the Biological Control of Weeds.* Eds. M. Julian, R. Sforza, M. Bon, H. Evans, P. Hatcher, H. Hinz, and B. Rector. CABI, Wallingford, UK.

Shipunov, A., G. Newcombe, A.K.H. Raghavendra, and C.L. Anderson. 2008. Hidden diversity of endophyte fungi from invasive spotted knapweed (*Centaurea stoebe* L., Asteraceae). American Journal of Botany 95(9): 1096–1108.

Garton, E. O., D. Musil, K. P. Reese, C. L. Anderson and J. W. Connelly. 2007. Sentinel Leks: An integrated sampling approach to estimate greater sage-grouse population characteristics. Monitoring Populations of Sage-Grouse, Symposium Proceedings, **Station Bulletin 88**, November 2007, College of Natural Resources Experimental Station, Moscow ID.

Clark, M. E., B.D. Heath, C.L. Anderson, and T.L. Karr. 2006. Induced paternal effects mimic cytoplasmic incompatibility in Drosophila. **Genetics 173**: 727-734.

Clark, M. E., Anderson, C., Cande, J. and Karr, T. L. 2005. Widespread prevalence of *Wolbachia* in laboratory stocks and the implications for *Drosophila* research. **Genetics 170**: 1667-1675.

Canning, E.U., S.W. Feist, M. Longshaw, B. Okamura, C.L. Anderson, M.T. Tse, and A. Curry. 2005. *Microgemma vivaresi* n. sp. (Microsporidia, Tetramicridae), infecting liver and skeletal muscle of sea scorpions, *Taurulus bubalis* (Euphrasen 1786) (Osteichthyes, Cottidae), an inshore, littoral fish. **J. Eukaryot. Microbiol.** 52(2): 1-9.

Nischwitz, C., G. Newcombe, and C.L. Anderson. 2005. Host specialization of the mycoparasite *Eudarluca caricis* and its evolutionary relationship to Ampelomyces. **Mycol. Res.** 109 (4): 421-428.

Misof B., C.L. Anderson, T.R. Buckley, D.Erpenbeck, A. Rickert, and K. Misof. 2002. An empirical analysis of mt 16S rRNA covarion-like evolution in insects: site-specific rate variation is clustered and frequently detected. **J Mol Evol** 55(4):460-9

Anderson, C.L., and T.L. Karr. 2001. *Wolbachia*: Evolutionary novelty in a rickettsial bacteria. **BMC Evolutionary Biology** 1 :10.

Okamura, B., C. L. Anderson, M. Longshaw, S.W. Feist, and E.U. Canning. 2001. Patterns of occurance and 18S rDNA sequence variation of PKX (*Tetracapsula Bryosalmonae*), the causative agent of salmonid Proliferative Kidney Disease. **J. Parasitology** 87: 379-85.

Anderson, C.L., E.U.Canning, B. Okamura, S. M. Schäfer, and H. Yokoyama. 2000. Molecular data confirm Aurantiactinomyxon species as the alternate stage of *Thelohanellus hovorkai* Achmerov, 1960 (Myxosporea: Myxozoa) life cycle. **Bull. Eur. Assoc. Fish Pathol** 20: 111-115.

Misof, B., and C. L. Anderson. 2000. A phylogeny of the damselfly genus *Calopteryx* (Odonata) using mitochondrial 16s rDNA markers. **Molecular Phylogenetics and Evolution** 15: 5-14.

Anderson, C.L., E. U. Canning, and B. Okamura. 1999. Molecular data implicate bryozoans as hosts for PKX (Phylum Myxozoa) and identify a clade of bryozoan parasites within the Myxozoa. **Parasitology** 119: 555-561.

Anderson, C.L., E. U. Canning, and B. Okamura. 1999. 18S rDNA sequences indicate that PKX organism parasitizes bryozoa. **Bull. Eur. Assoc. Fish Pathol**. 19: 94-97.

Canning, E.U., A. Curry, C.L. Anderson, and B. Okamura. 1999. Ultrastructure of *Myxidium trachinorum* n. sp. nov., from the gall bladder of the lesser weever fish *Echiicthys vipera*. **Parasitology Research** 85: 910-919.

Anderson, C. L. 1998. Phylogenetic relationships of Myxozoa. In **Evolutionary Relationships among Protozoa**, G. Coombs and A. Warren, eds., Chapman and Hall, London 341-349.

Anderson, C.L., B. Okamura, and E. U. Canning. 1998. Hox genes confirm that Myxozoa are extremely reduced triploblasts. **Nature** 392: 346-347.

Hollister, W.S., E.U. Canning, and C.L. Anderson. 1996. Identification of Microsporidia causing human disease. **J. Euk. Microbiol**. 43(5):104-105S.

Wynn, Richard C., C. Anderson, F. M. Richards and R.O. Fox. 1995. Interactions in nonnative and truncated forms of staphylococcal nuclease as indicated by mutational free energy changes. **Protein Science** 4(9): 1815-1823.

Anderson, C. L., E. Carew, and J. R. Powell. 1993. Evolution of the ADH locus in *Drosophila willistoni*: The loss of an intron and shift in codon usage. **Mol. Biol. and Evol**. 10(3): 605-618.

Cunningham, C. W., L. Buss, and C. Anderson. 1991. Molecular and geologic evidence of shared history between hermit crabs and the symbiotic genus *Hydractinia*. **Evolution** 45: 1301-1316.

In press or in review:

Newcombe G., Shipunov A., Raghavendra A., and C. Anderson. Endophytes are novel weapons in an invasive plant. Biological Invasions, in press.

Invited Talks, Workshops and Meetings

Anderson, C.L. 2010. Genetic methods for exploring biodiversity. Long-term Collaborative Research and Education Program on Biodiversity Conservation in the Ecuadorian Andes. Workshop, Universidad Tecnica Particular de Loja, Loja, Ecuador.

_____. 2009. Molecular methods for exploring biodiversity. Symposium on Exploration and Conservation of Relict Biodiversity of the Western Caucasus. Abastumani, Republic of Georgia.

_____. 2009. Scientific cooperation and educational exchange between University of Idaho and Illia Chavchavadze State University. Symposium on Exploration and Conservation of Relict Biodiversity of the Western Caucasus. Abastumani, Republic of Georgia.

_____. 2009. Aquatic invasives, molecular detection and monitoring methods. Symposium, 36th Natural Areas Conference, Vancouver, WA.

Anderson, C.L., K. Lambert, and T. Prather. 2008. Developing a Real-Time PCR assay to distinguish Northern and Eurasian watermilfoils. Invasive Species in Natural Areas: A Conference on Impacts and Management. Missoula, MT.

Anderson, C. L. 1995. Molecular Taxonomy of *Treponema pallidum*, and the New World Origin Hypothesis. Max Planck Institut für Marine Mikrobiologie.

_____ 1996. Phylogenetic relationships of Myxozoa. Joint Meeting of the British Section of the Society of Protozoologists, and the Linnean Society.

Anderson, C. L., E.U.Canning, and B. Okamura 1997. Phylogenetic implications of novel homeobox sequences isolated from Myxozoan parasites. 6th Congress of the European Society for Evolutionary Biology.

_____ 1998. Fish or Fowl? Phylogenetic implications of Hox genes in Myxozoan parasites.

Field Museum of Natural History, Chicago.
_____ 1998. Hox genes in Myxozoa. Institute of Applied Zoology, University of Bonn.
_____ 1998. Molecular phylogeny of Myxozoa, using 18S rDNA sequences. 1998. Centre for Environmental, Fisheries, and Aquaculture Sciences. Fish Diseases Laboratory, Weymouth, Dorset, UK.
_____2001. Bacterial Manipulation of Arthropod Reproduction. University of Munich, Munich, Germany.
_____2001. The Role of zipper (nonmuscle myosin) in the expression of *Wolbachia*-induced cytoplasmic incompatibility in Drosophila. Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn, Germany.