

# CURRICULUM VITAE

## **Scott D. Snyder, Ph.D.**

College of Science and Engineering  
Idaho State University  
Pocatello, ID 83209

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## **CURRENT ADMINISTRATIVE POSITIONS**

Dean. College of Science and Engineering. Idaho State University. 2018-present.  
Interim Vice President for Research. Idaho State University. 2019-present.

## **CURRENT ACADEMIC POSITION**

Professor. Department of Biological Sciences. Idaho State University. 2018-present.

## **PREVIOUS ADMINISTRATIVE EXPERIENCE**

Associate Vice Chancellor for Research and Creative Activity (Chief Research Officer).  
University of Nebraska Omaha. 2010-2018.  
Interim Executive Director. Peter Kiewit Institute, University of Nebraska. 2013-2018.  
President. Nebraska Applied Research Institute. University of Nebraska. 2016-2017.  
President. Peter Kiewit Institute Technology Development Corporation. University of Nebraska.  
2013-2016.  
Program Director. Division of Environmental Biology. National Science Foundation, Arlington,  
Virginia. 2008-2010.

## **PREVIOUS ACADEMIC EXPERIENCE**

Professor. Department of Biology. University of Nebraska Omaha. 2008-2018.  
Associate Professor. University of Nebraska Omaha. 2005-2008.  
Assistant Professor. University of Nebraska Omaha. 2001-2005.  
Assistant Professor. University of Wisconsin Oshkosh. 1998-2001.

## **POSTDOCTORAL EXPERIENCE**

National Science Foundation / Alfred P. Sloan Foundation Postdoctoral Research Fellow in  
Molecular Evolution. University of New Mexico. 1996-1998.

## **EDUCATION**

University of Nebraska-Lincoln; Ph.D., Parasitology, August 1996.  
Wake Forest University; M.S., Parasitology, May 1992.  
University of Nebraska-Lincoln; B.S., Biological Sciences, August 1989.

## **INTERNATIONAL EXPERIENCE**

2015-2018. UNO lead on new exchange programs with China. Student, faculty and research  
exchange with multiple universities in Guangzhou and elsewhere in China.  
2010-present. Developing research relationships in Europe and Asia.  
1997-2008. Active biological research in Australia, Ukraine and Peru.

## PHILANTHROPIC EXPERIENCE

2018-present. Lead on ISU's College of Science and Engineering fundraising efforts. Efforts focus on STEM education and scholarships.

2014-2018. UNO lead on building the Nebraska Applied Research Institute. To date this project has garnered \$30 million in philanthropic support for building acquisition. I have worked with the top tier of philanthropic individuals and foundations in Omaha as part of this effort.

## ADMINISTRATIVE SERVICE

2016-present. Advisor. United States Strategic Command. Strategic Advisory Group.

2016-2018. Representative (ex officio). Board of Directors. UNeMed Technology Development Corporation.

2015-2018. Chair. University of Nebraska Omaha Athletics Committee (NCAA mandated).

2013-2018. Member. Board of Directors. National Strategic Research Institute.

2013-2018. Member. Chancellor's Cabinet. University of Nebraska Omaha.

2010-2018. Lead. Federal Team (Federal Government). University of Nebraska Omaha.

2010-2018. Member. Government Engagement Group (State Government). University of Nebraska Omaha.

2009-2010. Chair. Dimensions of Biodiversity Working Group. National Science Foundation.

2009-2010. Digitization of Museum Collections Working Group. National Science Foundation.

2009. Broadening Participation Working Group. National Science Foundation.

## FUNDING ACTIVITY—Extramural

2008. Research Experience for Undergraduates. National Science Foundation \$7,000. **Funded.**

2007. Research Experience for Undergraduates. National Science Foundation \$6,000. **Funded.**

2006. Graduate assistantship supplement. National Science Foundation \$51,323. **Funded.**

2005. Collaborative Research: RUI: Parasites of Australian Turtles: Unknown Aspects of Biodiversity. Biodiversity Surveys and Inventories. National Science Foundation. \$295,637. **Funded.** (Collaborator Tkach received an additional \$211,649 for this project.)

2004. LI-COR Biosciences Genomics Education Matching Fund Program. LI-COR 4300L + Sequencing, AFLP, and Microsatellite application package. \$41,250. **Funded.**

2002. Parasites of Turtles: An Examination of Biodiversity, Systematics and Evolution. Collaboration in Basic Science and Engineering. National Research Council. \$9,425. **Funded.**

2000. Major Research Instrumentation Grant. National Science Foundation. Acquisition of Instrumentation for an Automated DNA Sequencing Facility. (With T. Shors and S. Bentivenga) \$65,460. **Funded.**

1996. National Science Foundation and Alfred P. Sloan Foundation Postdoctoral Research Fellowship in Molecular Evolution. \$80,000. **Funded.**

## PUBLICATIONS

Tkach, V.V, Y. Kuzmin and **S.D. Snyder**. 2014. Molecular insight into systematics, host associations, life cycles and geographic distribution of the nematode family Rhabdiasidae. International Journal for Parasitology 44: 273-284.

**Snyder, S. D.** and V. V. Tkach. 2011. *Aptorchis kuchlingi* n. sp. (Digenea: Plagiorchiodea) from the oblong turtle, *Chelodina oblonga* (Pleurodira: Chelidae), in Western Australia. Comparative Parasitology 78: 280-285.

- Kuzmin, Y., V. V. Tkach, S. D. Snyder and J. A. Bell. 2011. *Camallanus* Railliet et Henry, 1915 (Nematoda, Camallanidae) from Australian freshwater turtles with descriptions of two new species and molecular differentiation of known taxa. *Acta Parasitologica* 56: 213-226.
- Tkach, V. V. and **S. D. Snyder**. 2010. *Proctocaecum blairi* n. sp. (Digenea: Cryptogonimidae) from the freshwater crocodile, *Crocodylus johnstoni*, in Northern Territory, Australia. *Acta Parasitologica* 55: 240-244.
- Tkach, V. V., Kuzmin, Y. and **S. D. Snyder**. 2010. *Krefftascaris* Sprent, 1980 (Nematoda: Ascaridoidea) from Australian side-necked turtles (Pleurodira: Chelidae) with description of *Krefftascaris sharpiloi* sp. nov. from *Chelodina rugosa*. *Vestnik Zoologii* 44: 3-13.
- Kuzmin, Y., V. V. Tkach **S. D. Snyder** and M. D. Maier. 2009. *Camallanus tuckeri* n. sp. (Nematoda, Camallanidae) from freshwater turtles (Pleurodira: Chelidae), in the Kimberley, Western Australia. *Comparative Parasitology* 76: 133-140.
- Tkach, V. V. and **S. D. Snyder**. 2009. A new species of blood fluke (Digenea: Spirorchidae) from the Malayan box turtle, *Cuora amboinensis* (Cryptodira: Geomydidae) in Thailand. *Journal of Parasitology* 95: 743-746.
- Bolek, M. G., **S. D. Snyder**, and J. Janovy, Jr. 2009. Alternative life cycle strategies and colonization of young of the year leopard frogs, Woodhouse's toads, and bullfrogs by *Gorgoderina attenuata* in Nebraska. *Journal of Parasitology* 95: 604-616.
- Bolek, M. G., **S. D. Snyder**, and J. Janovy, Jr. 2009. Redescription of the frog bladder fluke *Gorgoderina attenuata* from the northern leopard frog, *Rana pipiens*. *Journal of Parasitology* 95: 665-668.
- Snyder, S. D.** and V. V. Tkach. 2009. *Haplorchis popelkai* n. sp. (Digenea: Heterophyidae) from short-neck turtles (Chelidae) in Northern Australia. *Journal of Parasitology* 95: 204-207.
- Tkach, V. V. and **S. D. Snyder**. 2008. *Aptorchis glandularis* n. sp. (Digenea: Plagiorchioidea) from the Northwestern Red-faced Turtle, *Emydura australis* (Pleurodira: Chelidae) in Northern Australia. *Journal of Parasitology* 94: 918-924.
- Bullard, S. A., **S. D. Snyder**, K. Jensen and R. Overstreet. 2008. New genus and species of Aporocotylidae (Digenea) from a lower actinopterygian, the American paddlefish, *Polyodon spathula*, from the Mississippi Delta. *Journal of Parasitology* 94: 487-495.
- Tkach, V. V. and **S. D. Snyder**. 2007. *Choanocotyle platti* n. sp. from the Northern Long-necked turtle, *Chelodina rugosa* (Pleurodira: Chelidae) in Australia. *Acta Parasitologica* 52: 318-324.
- Snyder, S. D.** and V. V. Tkach. 2007. *Neosychnocotyle maggiae*, n. gen. n. sp. (Platyhelminthes: Aspidogastrea) from freshwater turtles in northern Australia. *Journal of Parasitology* 93: 399-403.
- Tkach, V. V. and **S. D. Snyder**. 2007. *Aptorchis megacetabulus* n. sp. (Digenea: Plagiorchioidea) from the Northern Long-Necked Turtle, *Chelodina rugosa*, (Pleurodira: Chelidae) in Australia. *Journal of Parasitology* 93: 404-408.
- Platt, T. R. and **S. D. Snyder**. 2007. Redescription of *Hapalorhynchus reelfooti* Byrd, 1939 (Digenea: Spirorchidae) from *Sternotherus odoratus* (Latreille, 1801). *Comparative Parasitology* 74: 31-34.
- Tkach, V. V. and **S. D. Snyder**. 2006. *Doodytrema carettochelydis* n. gen., n. sp. (Digenea: Microscaphidiidae) from the Pig-Nosed Turtle, *Carettochelys insculpta* (Pleurodira: Chelidae) in Australia. *Comparative Parasitology* 73: 165-171.
- Snyder, S. D.** and V. V. Tkach. 2006. *Paradeuterobaris victoriae* n. sp. (Digenea: Microscaphidiidae) and *Buckarootrema minuta* n. sp. (Digenea: Pronocephalidae) from the Victoria River Red-Faced Turtle, *Emydura victoriae* (Pleurodira: Chelidae) in Australia. *Comparative Parasitology* 73: 7-13.
- Brant, S. V., J. A. Morgan, G. M. Mkoji, **S. D. Snyder**, R. P. Rajapakse and E. S. Loker. 2006. An approach to revealing blood fluke life cycles, taxonomy, and diversity: provision of

- key reference data including DNA sequence from single life cycle stages. *Journal of Parasitology* 92: 77-88.
- Snyder, S. D.** and R. E. Clopton. 2005. Collection and preservation of spirorchiid and polystomatid parasites from turtles. *Comparative Parasitology* 72: 102-107.
- Snyder, S. D.** 2004. Phylogeny and paraphyly among tetrapod blood flukes (Digenea: Schistosomatidae and Spirorchiidae). *International Journal for Parasitology* 34: 1385-1392.
- Kuzmin, Y., V. V. Tkach and **S. D. Snyder**. 2003. The nematode genus *Rhabdias* (Nematoda: Rhabdiasidae) from amphibians and reptiles of the Nearctic. *Comparative Parasitology* 70: 101-114.
- Lockyer, A. E., P. D. Olson, P. Ostergaard, D. Rollinson, D. A. Johnson, S. W. Attwood, V. R. Southgate, P. Horak, **S. D. Snyder**, T. H. Le, T. Agatsuma, D. P. McManus, A. C. Carmichael, S. Naem, and D. T. J. Littlewood. 2003. The phylogeny of the Schistosomatidae based on three genes with emphasis on the interrelationships of *Schistosoma* (Weinland, 1858). *Parasitology* 126: 203-224.
- Tkach, V. V. and **S. D. Snyder**. 2003. *Acanthostomum macroclemidis* n. sp. (Digenea: Cryptogonimidae: Acanthostominae) from the alligator snapping turtle, *Macrochelys temminckii*. *Journal of Parasitology* 89: 159-167.
- Tkach, V. V., **S. D. Snyder**, and Zdzisław Świdorski. 2001. On the phylogenetic relationships of some members of Macroderoididae and Ochetosomatidae (Digenea, Plagiorchioidea). *Acta Parasitologica* 46: 267-275.
- Snyder, S. D.** and V. Tkach. 2001. Phylogenetic and biogeographical relationships of Holarctic frog lung flukes (Digenea: Haematoloechidae). *Journal of Parasitology* 87: 1433-1440.
- Morgan J. A., R. J. Dejong, **S. D. Snyder**, G. M. Mkoji, and E. S. Loker. 2001. *Schistosoma mansoni* and *Biomphalaria*: past history and future trends. *Parasitology* 123: Suppl: S211-28.
- Kuzmin, Y., V. Tkach, and **S. D. Snyder**. 2001. *Rhabdias ambystomae* sp. n. (Nematoda: Rhabdiasidae) from the North American spotted salamander *Ambystoma maculatum* (Amphibia: Ambystomatidae). *Comparative Parasitology* 68: 228-235.
- Snyder, S. D.**, E. S. Loker, D. Johnston and D. Rollinson. 2001. The Schistosomatidae: advances in phylogenetics and genomics. *In* Interrelationships of the Platyhelminthes, D. T. J. Littlewood and R. A. Bray (editors). Taylor and Francis, London. p. 194-200.
- Snyder, S. D.** and E. S. Loker. 2000. Evolutionary relationships among the Schistosomatidae and an Asian origin for *Schistosoma*. *Journal of Parasitology* 86: 283-288.
- Janovy, J. Jr., **S. D. Snyder**, and R. E. Clopton. 1997. Evolutionary constraints on population structure: The parasites of *Fundulus zebrinus* (Pisces: Cyprinodontidae) in the South Platte River of Nebraska. *Journal of Parasitology* 83: 584-592.
- Snyder, S. D.** and J. Janovy, Jr. 1996. Behavioral basis of second intermediate host specificity among four species of *Haematoloechus* (Digenea: Haematoloechidae). *Journal of Parasitology* 82: 94-99.
- Janovy, J. Jr., R. E. Clopton, D. A. Clopton, **S. D. Snyder**, A. Efting, L. Krebs. 1995. Species density distributions as null models for ecologically significant interactions of parasite species in an assemblage. *Ecological Modelling* 77: 189-196.
- Snyder, S. D.** and J. Janovy, Jr. 1994. Second intermediate host-specificity of *Haematoloechus complexus* and *Haematoloechus medioplexus* (Digenea: Haematoloechidae). *Journal of Parasitology* 80: 1052-1055.
- Snyder, S. D.** and G. W. Esch. 1993. Trematode community structure in the pulmonate snail *Physa gyrina*. *Journal of Parasitology* 79: 205-215.

## INVITED SYMPOSIA

- Snyder, S. D.** 2010. Hidden in a shell: parasite biodiversity in turtles. XIIth International Congress of Parasitology. Melbourne, Australia.
- Snyder, S. D.** 2004. Pathways to Parasitology: An Academic Perspective. Student Symposium. Journal of Parasitology 90 (Suppl.): 97. 79<sup>th</sup> Annual Meeting of the American Society of Parasitologists, Philadelphia, PA.
- Snyder, S. D.** 2003. Future directions of systematic and evolutionary parasitology. Student Symposium. Journal of Parasitology 89 (Suppl.): 66-67. 78<sup>th</sup> Annual Meeting of the American Society of Parasitologists, Halifax, Nova Scotia.
- Rollinson, D. and **S. D. Snyder**. 1999. Phylogeny of the Schistosomatidae. Interrelationships of the Platyhelminthes. The Linnean Society of London, London, U.K.

## INVITED SEMINARS

2007. National Science Foundation. Arlington, Virginia.
2007. Museum of Natural History. Louisiana State University.
2006. Department of Infectious Diseases and Pathology. University of Florida.
2006. Queensland Department of Primary Industries and Fisheries. Brisbane, Australia.
2005. Department of Ecology and Evolutionary Biology. University of Kansas.
2005. Department of Biology. Sam Houston State University.
2004. Department of Biology. West Virginia State University.

## GRADUATE STUDENTS MENTORED

- 2007-2009. Ashley Freyre, M.S. *Trypanosoma* of Australian freshwater turtles: Occurrence and diversity.
- 2007-2009. Dominique Freyre, M.S. Population genetics and host specificity of *Spirorchis scripta* in emydid turtles.
1999. Sonja Kock, Ph.D., University of Kiel, Germany. Evolutionary relationships among members of the avian blood fluke genus *Trichobilharzia*.
- 1998-2001. Rodney Smith, M.S. Examination of host specificity and local adaptation in the blood fluke, *Schistosomatium douthitti*.

## UNDERGRADUATE STUDENTS MENTORED

- 2006-2009. Zach Weiler, B. S. student. Molecular phylogeny of turtle polystome parasites.
- 2006-2007. Kacie Johannson, B. S. Student. Molecular identification of snail parasites.
- 2006-2007. Colin Sandoz, B. S. student. Blood protozoa of Australian turtles.
- 2006-2007. John Kuvetakis, B. S. student. Blood protozoa of Australian turtles.
2006. Jennifer Westbrook, B. S. student. Blood protozoa of Australian turtles.
- 2004-2007. Aaron Pilley, B. S. Student. Molecular identification of snail parasites.
- 2002-2006. Christopher Shoemaker, B. S. student. Ecological aspects of fish parasites.
- 2001-2005. Natalie Black, B. S. student. Life history elucidation of turtle blood flukes.
- 2001-2005. Kara Gordon, B. S. student. Life history elucidation of turtle blood flukes.
- 2000-2001. Jamie Oaks, B. S. student. Examination of the helminth fauna of Wisconsin reptiles.
- 1999-2000. John Ruby, B. S. student. Examination of the helminth fauna of anuran amphibians.

## AWARDS AND HONORS

2010. Directors Award for Collaborative Integration. National Science Foundation
1997. The Clark P. Read New Investigator Award. American Society of Parasitologists.
- 1995-1996. Student Representative to Council of the American Society of Parasitologists.
1994. Outstanding Student Paper Presentation (Best Student Paper), American Society of Parasitologists Annual Meeting, Fort Collins, Colorado.

1993. Meritorious Student Paper Presentation, American Society of Parasitologists Annual Meeting, Atlanta, Georgia.
1993. David A. Becker Memorial Student Presentation Award, Southwestern Association of Parasitologists, Lake Texoma, Oklahoma.

## **SERVICE**

### **To the Discipline:**

- 2012-present. Business Advisory Committee. American Society of Parasitologists.
- 2013-2015. Chair. Local Organizing Committee 2015 annual meeting of American Society of Parasitologists.
2012. Panelist. National Science Foundation.
- 2009-2012. Council Member. American Society of Parasitologists.
- 2010-2012. Ashton Cuckler New Investigator Award Committee. American Society of Parasitologists.
- 2009-present. Executive Committee. Helminthological Society of Washington.
2008. Panelist. National Science Foundation. Systematic Biology.
- 2007-2008. Chair. Nominating Committee. American Society of Parasitologists.
2007. Panelist. National Science Foundation. Partnership for Enhancing Expertise in Taxonomy.
- 2004-2008. R. Barclay McGhee Memorial Lecture Committee. American Society of Parasitologists.
- 2004-2006. Representative to ASP Council. Southwestern Association of Parasitologists
- 2003-2004. President. Southwestern Association of Parasitologists.
- 2002-2005. Student Awards Committee. American Society of Parasitologists.
- 2002-2004. Henry Baldwin Ward Medal Committee. American Society of Parasitologists.
- 2002-2003. President Elect & Program Officer. Southwestern Association of Parasitologists.
2000. Panelist. National Science Foundation Biocomplexity Program.
2000. Judge. Student Paper Competition. 52<sup>nd</sup> Annual Midwestern Conference of Parasitologists.
1999. Panelist. National Science Foundation. Partnership for Enhancing Expertise in Taxonomy.

### **To the University:**

2015. Daugherty Water for Food Institute Executive Director search committee. University of Nebraska.
- 2010-2011. Daugherty Water for Food Institute Executive Director search committee. University of Nebraska.
2008. Chair. Terrestrial vertebrate biologist search committee. Department of Biology. University of Nebraska at Omaha.
- 2006-2008. University Committee on Research. University of Nebraska at Omaha.
- 2006-2008. Budget Committee. Department of Biology. University of Nebraska at Omaha.
2006. Molecular biologist search committee. Department of Biology. University of Nebraska at Omaha.
2006. Merit review committee. Department of Biology. University of Nebraska at Omaha
2005. Staff assistant search committee. Department of Biology. University of Nebraska at Omaha
- 2004-2006. Curriculum and Scheduling Committee. Department of Biology. University of Nebraska at Omaha.
- 2002-2004. Budget Committee. Department of Biology. University of Nebraska at Omaha.
2000. Microbial physiologist search and screen committee. Department of Biology & Microbiology. University of Wisconsin Oshkosh.
- 2000-2001. Space Utilization Committee. Department of Biology & Microbiology. University of Wisconsin Oshkosh.

2000. Aquatic ecologist search and screen committee. Department of Biology & Microbiology.  
University of Wisconsin Oshkosh.  
1999. Plant taxonomist search and screen committee. Department of Biology & Microbiology.  
University of Wisconsin Oshkosh.  
1998-2001. Curriculum and Scheduling Committee. Department of Biology & Microbiology.  
University of Wisconsin Oshkosh.

## **TEACHING EXPERIENCE**

Introductory Biology, Lecturer, University of Nebraska at Omaha, 2007.  
Parasitology, Lecturer, University of Nebraska at Omaha, 2003-2008.  
Biology II, Lecturer, University of Nebraska at Omaha, 2001-2008.  
Graduate Advanced Topics, The Role of Diseases in Shaping Human History, Instructor, 2000.  
Animal Biology, Lecturer, University of Wisconsin Oshkosh, 2000-2001.  
Parasitology, Lecturer, University of Wisconsin Oshkosh, 1999-2001.  
Introductory Biology, Lecturer, University of Wisconsin Oshkosh, 1999-2001.  
Parasitology, Lecturer, University of New Mexico, 1997.  
Parasitology, Laboratory Instructor, University of Nebraska-Lincoln 1995-1996.  
Field Parasitology, Teaching Assistant, U. of Nebraska, Cedar Point Biol. Station, 1993-1995.  
Invertebrate Zoology, Laboratory Instructor, University of Nebraska-Lincoln 1992-1994.  
Introductory Zoology, Laboratory Coordinator, University of Nebraska-Lincoln 1993-1995.  
Behavioral Ecology, Teaching Assistant, University of Nebraska, CPBS, 1992.  
Introductory Biology, Laboratory Instructor, Wake Forest University, 1990, 1992.  
Comparative Physiology, Laboratory Instructor, Wake Forest University, 1991.  
Introductory Biology, Laboratory Instructor, University of Nebraska-Lincoln 1988.  
Introductory Zoology, Laboratory Instructor, University of Nebraska-Lincoln 1988-1989.