

Curriculum Vitae

Scott D. Snyder, Ph.D.

CURRENT POSITION

Idaho State University

Professor. Department of Biological Sciences. 2018-present.

LEADERSHIP POSITIONS

Idaho State University

Dean. College of Science and Engineering. June 2018-June 2023.

- 10 departments, 125 faculty, 1,200 students, \$17M budget, 16 direct reports

Vice President for Research (interim). 2019-2020 (18 months).

- Research leadership for campus, \$5.5M budget, 6 direct reports

University of Nebraska Omaha

Chief Research Officer (Associate Vice Chancellor for Research and Creative Activity). 2010-2018.

- Research leadership for campus, increased awards by 60%, 5 direct reports

University of Nebraska System

Executive Director (interim). Peter Kiewit Institute. 2013-2018.

- Engineering & Computer Science faculty/staff from 2 universities, 5 direct reports

President. Nebraska Applied Research Institute. 2016-2017.

- 501(c)(3) dedicated to applied cybersecurity research

President. Peter Kiewit Institute Technology Development Corporation. 2013-2016.

- 501(c)(3) responsible for industry connections and technology transfer

National Science Foundation

Program Director. Division of Environmental Biology. 2008-2010.

PREVIOUS ACADEMIC EXPERIENCE

University of Nebraska Omaha

Professor. Department of Biology. 2008-2018.

Associate Professor. Department of Biology. 2005-2008.

Assistant Professor. Department of Biology. 2001-2005.

University of Wisconsin Oshkosh

Assistant Professor. Department of Biology. 1998-2001.

University of New Mexico

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

EDUCATION

Ph.D., University of Nebraska-Lincoln. Parasitology. 1996.

M.S., Wake Forest University. Parasitology. 1992.

B.S., University of Nebraska-Lincoln. Biological Sciences. 1989.

LEADERSHIP ACCOMPLISHMENTS

Idaho State University

Dean, College of Science and Engineering

- Provided leadership for ~125 faculty and instructional staff and 1,200 undergraduate and graduate students.
- Managed a multi-funds budget of \$17.3 million.
- Increased college research expenditures by 46% (FY22, \$5.8M expenditures)
- Partnered with regional industry and government on workforce development and research.
- Led ISU's partnership with Idaho National Laboratory (INL).
- Led ISU's curricular and research efforts in cybersecurity.
- Developed and implemented degree programs: MS in Computer Science, BS and MS in Computer Engineering.
- Oversight of complete revision of BS in Computer Science.
- Developed and implemented undergraduate and graduate certificate programs in Cybersecurity.
- Developed, implemented and raised ~\$600,000 for the STEM IS U scholarship fund to support underrepresented students in STEM disciplines.
- Increased faculty diversity through comprehensive changes in hiring practices.
- Led continuing student retention efforts through professional advising and curricular revision (e.g., addition of two advisors, altering math curriculum).
- Responsible for the accreditation of four degree programs.
- Served on numerous statewide boards and leadership bodies, including: State of Idaho Cybersecurity Task Force, Leadership in Nuclear Energy Commission, Idaho Regional Optical Network, Idaho Technology Council and the Center for Advanced Energy Studies Steering Committee.

Vice President for Research (interim)

- Developed a strategic organizational structure to reflect the mission of the Office for Research.
- Managed a multi-funds budget of \$5.5 million.
- Worked with Office for Research staff to implement a culture of service to the ISU community.
- Implemented and funded a seed funding program that enabled participation by faculty in the arts and humanities.
- Entered a challenging organizational environment at a time of change and worked with the university community to provide stability and support.
- Untangled a number of regulatory and compliance issues that threatened the university research enterprise.

University of Nebraska Omaha

Chief Research Officer (Associate Vice Chancellor for Research and Creative Activity)

- Established the Office for Research and Creative Activity.
- Led campus federal relations activities and supported state government relations.
- Led an increase of ~ 60% in externally funded research and creative activities.
- Developed, implemented and funded a >\$400,000 grants program to support student research and creative activities.
- Partnered with regional industry and government on workforce development.

- Worked with Department of Defense, the Nebraska Congressional Delegation and other University of Nebraska campuses to stand up one of 15 University Affiliated Research Centers.
- Provided leadership for UNOs first NIH COBRE grant (Phases 1 & 2:~\$20M).
- Worked with faculty from three colleges and the Department of Homeland Security to stand up an international academic center for counterterrorism (current: National Counterterrorism Innovation, Tech and Education Center).
- Led the development and implementation of a significant student exchange program with Chinese universities.
- Served on numerous university, statewide and national advisory bodies and boards, including: United States Strategic Command Strategic Advisory Group, UNeMed Technology Development Corporation, University of Nebraska Federal Team and the National Strategic Research Institute.

University of Nebraska System

Executive Director (interim). Peter Kiewit Institute.

- Took the initial lead on a successful philanthropic team effort to effort to bring a \$30 million building to the University of Nebraska.
- Worked with local and regional industry to provide student opportunities.
- Reconfigured the recruitment and selection process for the prestigious Scott Scholars program to increase diversity and inclusivity.
- Entered into a challenging organizational environment that includes colleges of engineering and information technology on two University of Nebraska campuses. Worked with leadership, faculty and staff to calm tensions and develop a shared purpose.

President. Nebraska Applied Research Institute. 2016-2017.

- Worked with industry, government, philanthropists and the university community to develop this 501(c)(3) institute to provide real-world solutions to cyber security vulnerabilities.

President. Peter Kiewit Institute Technology Development Corporation. 2013-2016.

- Brought this 501(c)(3) organization into alignment with the mission and needs of the Peter Kiewit Institute.

National Science Foundation

Program Director. Division of Environmental Biology. 2008-2010.

- Served as the lead Program Director on the development, implementation and funding of the Dimensions of Biodiversity grants program. This required close collaboration with NSF colleagues and partners from NASA, NIH and the National Science Foundation China. This program for a decade supported collaborative and innovative research in Earth's biodiversity with an annual budget of ~ \$10M.

ADMINISTRATIVE SERVICE

Idaho State University

- State of Idaho Governor's Cybersecurity Task Force. Gubernatorial appointment. Member. 2021-2023.
- ISU Budget Advisory Group. Member. 2020-2023.
- Cybersecurity partnership in Idaho higher education. Campus lead. 2020-2022.
- Idaho National Laboratory partnership. Lead. 2019-2023.
- State of Idaho Leadership in Nuclear Energy Commission. Gubernatorial appointment. Commissioner. 2019-2023.
- Idaho Regional Optical Network. Board of Directors. Member & Alternate. 2019-2023.
- Idaho Technology Council. Board of Trustees. Member. 2019-2023.
- President's Leadership Council. Member. 2018-2023.
- Bannock Development Corporation. Board of Directors. Member. 2019-2021.
- Center for Advanced Energy Studies Steering Committee (CAES). Member. 2019-2020. (Idaho Universities' partnership with Idaho National Laboratory.)
- Idaho Higher Education Research Council (HERC). Member. 2019-2020
- President's Administrative Council (Cabinet). Member. 2019-2020.

University of Nebraska Omaha

- United States Strategic Command. Strategic Advisory Group. Advisor. 2016-2019.
- Board of Directors. UNeMed Technology Development Corporation. Representative (ex officio). 2016-2018.
- Federal Team (Federal Advocacy). Campus Lead. 2010-2018.
- Government Engagement Group (State Advocacy). Member. 2010-2018.
- University Committee on Athletics (NCAA mandated). Chair. 2015-2018.
- National Strategic Research Institute. Board of Directors. Member. 2013-2018.
- Chancellor's Cabinet. Member. 2013-2018.

National Science Foundation

- Dimensions of Biodiversity Working Group. Chair. 2009-2010.
- Digitization of Museum Collections Working Group. Member. 2009-2010.
- Broadening Participation Working Group. Member. 2009.

PHILANTHROPIC EXPERIENCE

Idaho State University

College of Science and Engineering fundraising efforts. Lead. 2018-present.

- Focus on STEM education and scholarships for underrepresented groups (~\$600,000 thus far).
- Focus on industry relationships.

University of Nebraska System

Peter Kiewit Institute and Nebraska Applied Research Institute. Lead. 2013-2018.

- Raised support for scholarships, research equipment and property acquisition (>\$30M).

PROFESSIONAL DEVELOPMENT

Western Academic Leadership Forum. Sponsored by the Western Interstate Commission for Higher Education. 2022-2023.

FUNDED RESEARCH ACTIVITY

Research Experience for Undergraduates. National Science Foundation (\$7,000). 2008.

Research Experience for Undergraduates. National Science Foundation (\$6,000). 2007.

Graduate assistantship supplement for underrepresented groups (\$51,323). National Science Foundation. 2006.

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

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

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

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

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

PUBLICATIONS

Tkach, V. V., T. J. Achatz, E. E. Pulis, K. Junker, **S. D. Snyder**, J. A. Bell, A. Halajian, F. Melo. 2020. Phylogeny and systematics of the Proterodiplostomidae Dubois, 1936 (Digenea: Diplostomoidea) reflect the complex evolutionary history of the ancient digenean group. *Systematic Parasitology*. (<https://doi.org/10.1007/s11230-020-09928-2>).

Achatz, T. J., E. E. Pulis, K. Junker, T. T. Binh, **S. D. Snyder** and V. V. Tkach. 2019. Molecular phylogeny of the Cyanthocotylidae (Digenea, Diplostomoidea) necessitates systematic changes and reveals a history of host and environment switches. *Zoologica Scripta* 48: 545-556.

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. *Krefftasca* Sprent, 1980 (Nematoda: Ascaridoidea) from Australian side-necked turtles (Pleurodira: Chelidae) with description of *Krefftasca 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: Plagiorchiodea) 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. *Aporchis megacetabulus* n. sp. (Digenea: Plagiorchioidea) from the Northern Long-Necked Turtle, *Chelodina rugosa*, (Pleurodira: Chelidae) in Australia. *Journal of Parasitology* 39: 404-408.

Platt, T. R. and **S. D. Snyder**. 2007. Redescription of *Hapalorhynchus reelfooti* Byrd, 1939 (Digenea: Spirorchiidae) 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, *Macroclemys temminckii*. *Journal of Parasitology* 89: 159-167.

Tkach, V. V., **S. D. Snyder**, and Zdzisław Świderski. 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: Haeamtoloechidae). *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. 79th 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. 78th 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.

GRADUATE STUDENTS MENTORED

- 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. 2007-2009.
- Sonja Kock, Ph.D., University of Kiel, Germany. Evolutionary relationships among members of the avian blood fluke genus *Trichobilharzia*. 1999.
- Rodney Smith, M.S. Examination of host specificity and local adaptation in the blood fluke, *Schistosomatium douthitti*. 1998-2001.

(Served on numerous graduate student committees.)

UNDERGRADUATE STUDENTS MENTORED

- Kacie Johannson, B. S. Student. Molecular identification of snail parasites. 2006-2007.
- John Kuvetakis, B. S. student. Blood protozoa of Australian turtles. 2006-2007.
- Jennifer Westbrook, B. S. student. Blood protozoa of Australian turtles. 2006.
- Aaron Pilley, B. S. Student. Molecular identification of snail parasites. 2004-2007.
- 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. 2001-2005.
- Jamie Oaks, B. S. student. Helminth fauna of Wisconsin reptiles. 2000-2001.
- John Ruby, B. S. student. Helminth fauna of anuran amphibians. 1999-2000.

TEACHING EXPERIENCE

- Introductory Biology. University of Nebraska Omaha. 2007.
- Parasitology. University of Nebraska Omaha. 2003-2008.
- Biology II. University of Nebraska Omaha. 2001-2008.
- Graduate Advanced Topics. The Role of Disease in Shaping Human History. 2000.
- Animal Biology. University of Wisconsin Oshkosh. 2000-2001.
- Parasitology. University of Wisconsin Oshkosh. 1999-2001.
- Introductory Biology. University of Wisconsin Oshkosh. 1999-2001.
- Parasitology. University of New Mexico. 1997.
- Parasitology. Laboratory Instructor. University of Nebraska-Lincoln. 1995-1996.
- Field Parasitology. Teaching Assistant. University of Nebraska-Lincoln. Cedar Point Biological 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. Cedar Point Biological Station. 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.