

## Peer-reviewed Journal articles – S.D. Atkinson – January 2020

54. Milanin T, Bartholomew JL, **Atkinson SD** (2020) An introduced host with novel and introduced parasites: *Myxobolus* spp. (Cnidaria: Myxozoa) in yellow perch *Perca flavescens*. *Parasitology Research* DOI:10.1007/s00436-019-06585-3
53. Richey CA, Kenelty KV, Hopkins KVS, Stevens BN, Martínez-López B, Hallett SL, **Atkinson SD**, Bartholomew JL, Soto E (2020) Validation of environmental DNA sampling for determination of *Ceratonova shasta* (Noble, 1950) (Cnidaria: Myxozoa) distribution in Plumas National Forest, CA. *Journal of Aquatic Animal Health* epub DOI:10.1007/s00436-019-06509-1
52. **Atkinson SD**, Hallett SL, Díaz Morales D, Bartholomew JL, de Buron I (2019) First myxozoan infection (Cnidaria: Myxosporea) in a marine polychaete from North America, and erection of actinospore collective group Saccimyxon. *Journal of Parasitology* 105(2):252-262 DOI:10.1645/18-183
51. Alama-Bermejo, G, Viozzi GP, Waicheim MA, Flores VR, **Atkinson SD** (2019) Host-parasite relationship of *Ortholinea lauquen* n. sp. (Cnidaria: Myxozoa) and the fish *Galaxias maculatus* (Jenyns, 1842) in northwest Patagonia, Argentina. *Diseases of Aquatic Organisms* 136(2):163-174 DOI: 10.3354/dao03400
50. Borkhanuddin MH, Cech G, Molnár K, Shaharom-Harrison F, Duy Khoa TN, Samshuri MA, Mazelan S, **Atkinson SD**, Székely C (2019) *Henneguya* (Cnidaria: Myxosporea: Myxobolidae) infections of cultured barramundi, *Lates calcarifer* (Perciformes: Latidae) in an estuarine wetlands system of Malaysia: Description of *Henneguya setiuensis* n. sp., *Henneguya voronini* n. sp. and *Henneguya calcarifer* n. sp. *Parasitology Research* 119(1):85-96 DOI: 10.1007/s00436-019-06541-1
49. Breyta R, **Atkinson SD**, Bartholomew JL (2019) Evolutionary dynamics of *Ceratonova* species in the Klamath River basin reveals different host adaptation strategies. *Infection, Genetics and Evolution* 29:104081 DOI:10.1016/j.meegid.2019.104081
48. Howell CK, **Atkinson SD**, Bartholomew JL, Hallett SL (2019) Development and application of a qPCR assay targeting *Ichthyophthirius multifiliis* in environmental water samples. *Diseases of Aquatic Organisms* 134:43-55 DOI:10.3354/dao03351
47. Fromm A, **Atkinson SD**, Alama-Bermejo G, Cartwright P, Bartholomew J, Huchon D (2019) A new mitochondrial gene order in the banded cusk-eel *Raneya brasiliensis* (Actinopterygii, Ophidiiformes). *Mitochondrial DNA Part B*, 4:1, 1-4 DOI:10.1080/23802359.2018.1532824
46. **Atkinson SD**, Bartholomew JL, Lotan T (2018) Myxozoans: ancient metazoan parasites find a home in phylum Cnidaria. *Zoology* 129:66-68 DOI:10.1016/j.zool.2018.06.005
45. **Atkinson SD**, Hallett SL, Bartholomew JL (2018). Genotyping of individual *Ceratonova shasta* (Cnidaria: Myxosporea) myxospores reveals intra-spore ITS-1 variation and invalidates the distinction of genotypes II and III. *Parasitology* 145:1588–1593 DOI:10.1017/S0031182018000422
44. Stinson MET, **Atkinson SD**, Bartholomew JL (2018) Widespread distribution of *Ceratonova shasta* (Cnidaria: Myxosporea) genotypes indicates evolutionary adaptation to its salmonid fish hosts. *Journal of Parasitology* 104(6) DOI:10.1645/18-79
43. Zatti SA, **Atkinson SD**, Maia AAM, Corrêa LL, Bartholomew JL, Adriano EA, (2018), Novel freshwater *Ellipsomyxa* and *Myxobolus* species (Cnidaria: Myxozoa) parasiting *Brachyplatystoma rousseauxii* in the Amazon basin. *Parasitol International*. 67:612-621 DOI:10.1016/j.parint.2018.06.005
42. Milanin T, **Atkinson SD**, Silva MRM, Alves RG, Maia AAM, Adriano EA (2018) Occurrence of two novel actinospore types (Cnidaria: Myxozoa) in fish farms in Mato Grosso do Sul state, Brazil. *Parasitology Research* 117:1757 DOI:10.1007/s00436-018-5856-0

41. Richey CA, Kenelty KV, Hopkins KVS, Stevens BN, Martínez-López B, Barnum SM, Hallett SL, **Atkinson SD**, Bartholomew JL, Soto E (2018) Distribution and prevalence of *Myxobolus cerebralis* in post-fire areas of Plumas National Forest: utility of eDNA sampling. *Journal of Aquatic Animal Health* 30(2):130-143 DOI:10.1002/aah.10014
40. Zatti S, **Atkinson SD**, Maia AAM, Bartholomew JL, Adriano EA (2018) Novel *Henneguya* spp. (Cnidaria: Myxozoa) from cichlid fish in the Amazon basin cluster by geographic origin. *Parasitology Research* 117:849-859 DOI: 10.1007/s00436-018-5762-5
39. Zatti S, **Atkinson SD**, Bartholomew JL, Maia AAM, Adriano EA (2018) *Ceratomyxa gracillima* n. sp. (Cnidaria: Myxosporea) provides evidence of panmixia and ceratomyxid radiation in the Amazon Basin. *Parasitology* 145:1137-1146 DOI: 10.1017/S0031182017002323
38. de Buron, I, **Atkinson SD**, Hallett SL, Hill-Spannick K (2017) Infection dynamics of *Kudoa inornata* (Cnidaria: Myxosporea) in spotted seatrout, *Cynoscion nebulosus* (Teleost: Sciaenidae) and potential for mitigation. *Diseases of Aquatic Organisms* 127:29–40 DOI:10.3354/dao03174
37. Piriatskiy G, **Atkinson SD**, Park S, Morgenstern D, Brekhman V, Yossifon G, Bartholomew JL, Lotan T (2017) Functional and proteomic analysis of *Ceratonova shasta* (Cnidaria: Myxozoa) polar capsules reveals adaptations to parasitism. *Scientific Reports* 7(1):9010 DOI: 10.1038/s41598-017-09955-y.
36. Zatti S, **Atkinson SD**, Bartholomew JL, Maia AAM, Adriano EA (2017) Amazonian waters harbour an ancient freshwater *Ceratomyxa* lineage (Cnidaria: Myxosporea). *Acta Tropica* 169:100-106 DOI:10.1016/j.actatropica.2017.02.006
35. Milanin T, **Atkinson SD**, Silva MRM, Alves RG, Maia AAM, Adriano EA (2017) Occurrence of two novel actinospore types (Cnidaria: Myxosporea) in Brazilian fish farms, and the creation of a novel actinospore collective group, Seisactinomyxon. *Acta Parasitologica* 62(1):121–128 DOI: 10.1515/ap-2017-0014
34. **Atkinson SD**, Banner CR (2016) A novel myxosporean parasite *Myxobolus klamathellus* n. sp. (Cnidaria: Myxosporea) from native blue chub (*Gila coerulea*) in Klamath Lake, Oregon. *Parasitology Research* 116:299-302 DOI:10.1007/s00436-016-5292-y
33. Ben-David J, **Atkinson SD**, Pollak Y, Yossifon G, Shavit U, Bartholomew JL, Lotan T (2016) Myxozoan polar tubules display structural and functional variation. *Parasites & Vectors* 9:549 DOI: 10.1186/s13071-016-1819-4
32. Székely Cs, **Atkinson SD**, Molnár K, Egyed L, Gubányi A, Cech G (2016) A synopsis of records of myxozoan parasites (Cnidaria: Myxozoa) from shrews, with additional data on *Soricimyxum fegati* from common shrew *Sorex araneus* in Hungary and pygmy shrew *Sorex minutus* in Slovakia. *Folia Parasitologica (Praha)* 63.pii:2016.021 DOI: 10.14411/fp.2016.021
31. Székely Cs, Cech G, **Atkinson SD**, Molnár K, Egyed L, Gubányi A (2015) A novel myxozoan parasite of terrestrial mammals: description of *Soricimyxum minuti* sp. n. (Myxosporea) in pygmy shrew *Sorex minutus* from Hungary. *Folia Parasitologica (Praha)* 62.pii:2015.045 DOI:10.14411/fp.2015.045
30. Fiala I, Hlavničková M, Kodádková A, Freeman MA, Bartošová-Sojtková P, **Atkinson SD** (2015) Evolutionary origin of *Ceratonova shasta* and phylogeny of the marine myxosporean lineage. *Molecular Phylogenetics and Evolution* 86:75-89 DOI:10.1016/j.ympev.2015.03.004
29. Adriano EA, Silva MRM, **Atkinson SD**, Bartholomew JL, Maia AAM (2014) *Myxidium ceccarellii* n. sp. (Myxosporea) from the gallbladder of *Leporinus elongatus* (Anostomidae) from the São Francisco River, Brazil. *Parasitology Research* 113(7):2665-2670 DOI: 10.1007/s00436-014-3921-x
28. **Atkinson SD**, Foott JS, Bartholomew JL (2014) Erection of *Ceratonova* n. gen. (Myxosporea: Ceratomyxidae) to encompass freshwater species *C. gasterosteae* n. sp. from threespine stickleback (*Gasterosteus aculeatus*) and *C. shasta* n. comb. from salmonid fishes. *Journal of Parasitology* 100(5):640-645 DOI:10.1645/13-434.1
27. Polley TM, **Atkinson SD**, Jones GR, Bartholomew JL (2013) Supplemental description of *Myxobolus squamalis* (Myxozoa). *Journal of Parasitology* 99(4):725-728 DOI:10.1645/12-109.1

26. Bartošová P, Fiala I, Jirku M, Cinková M, Caffara M, Fioravanti ML, **Atkinson SD**, Bartholomew JL, Holzer AS (2013) *Sphaerospora sensu stricto*: Taxonomy, diversity and evolution of a unique lineage of myxosporeans (Myxozoa) *Molecular Phylogenetics and Evolution* 68:93–105 DOI:10.1016/j.ympev.2013.02.026
25. Holzer AS, Bartošová P, Pecková H, Týmł T, **Atkinson SD**, Bartholomew J, Sipos D, Eszterbauer E, Dyková I (2013) “Who’s who” in renal sphaerosporids (Bivalvulidae: Myxozoa) from common carp, Prussian carp and goldfish – Molecular identification of cryptic species, blood stages and new members of *Sphaerospora sensu stricto*. *Parasitology* 140(1):46-60 DOI:10.1017/S0031182012001175
24. Hallett SL, Ray RA, Hurst CN, Holt R, Buckles G, **Atkinson SD**, Bartholomew JL (2012) Density of the Waterborne Parasite, *Ceratomyxa shasta*, and Biological Effects on Salmon. *Applied and Environmental Microbiology* 78(10):3724-31 DOI: 10.1128/AEM.07801-11
23. **Atkinson SD**, Jones SRM, Adlard R, Bartholomew JL (2011) Geographical and host distribution patterns of *Parvicapsula minibicornis* (Myxozoa) small subunit ribosomal RNA genetic types. *Parasitology* 138(8):960-968 DOI:10.1017/S0031182011000734
22. **Atkinson SD**, Bartholomew JL (2010b). Spatial, temporal and host factors structure the *Ceratomyxa shasta* (Myxozoa) population in the Klamath River Basin. *Infection, Genetics and Evolution* 10:1019-1026 DOI:10.1016/j.meegid.2010.06.013
21. **Atkinson SD**, Bartholomew JL (2010a) Disparate infection patterns of *Ceratomyxa shasta* (Myxozoa) in rainbow trout *Oncorhynchus mykiss* and Chinook salmon *Oncorhynchus tshawytscha* correlate with ITS-1 sequence variation in the parasite. *International Journal for Parasitology* 40(5):599-604 DOI:10.1016/j.ijpara.2009.10.010
20. Horner D, **Atkinson SD**, Pratt DM, Marcquenski S, Bartholomew JL (2010) *Myxobolus notropis* from emerald shiner, *Notropis atherinoides* Rafinesque, in Lake Superior. *Journal of Parasitology* 33(3):279-282 DOI:10.1111/j.1365-2761.2009.01109.x
19. Hallett SL, Lorz HV, **Atkinson SD**, Rasmussen C, Xue L, Bartholomew JL (2009) Propagation of the myxozoan parasite *Myxobolus cerebralis* by different geographic and genetic populations of *Tubifex tubifex*: an Oregon perspective. *Journal of Invertebrate Pathology* 102(1):57-68 DOI:10.1016/j.jip.2009.07.001
18. Székely Cs, Hallett SL, **Atkinson SD**, Molnár K (2009) Complete life cycle of *Myxobolus rotundus* Nemeček, 1911 (Myxosporea: Myxobolidae), a gill myxozoan of the common bream (*Abramis brama*). *Diseases of Aquatic Organisms* 85:147-155 DOI:10.3354/dao02068
17. **Atkinson SD**, Bartholomew JL (2009) Alternate spore stages of *Myxobilatus gasterostei*, a myxosporean parasite of three-spined sticklebacks (*Gasterosteus aculeatus*) and oligochaetes (*Nais communis*). *Parasitology Research* 104(5):1173-81
16. Molnár K, Székely C, Hallett SL, **Atkinson SD** (2009) Some remarks on the occurrence, host-specificity and validity of *Myxobolus rotundus* Nemeček, 1911 (Myxozoa: Myxosporea). *Systematic Parasitology* 72(1):71-9
15. Ferguson JA, **Atkinson SD**, Whipps CM, Kent ML (2008) Molecular and morphological analysis of *Myxobolus* spp. of salmonid fishes with the description of a new *Myxobolus* species. *Journal of Parasitology* 94(6):1322-34
14. Bartholomew JL, **Atkinson SD**, Hallett SL, Lowenstine LJ, Garner MM, Gardiner CH, Rideout BA, Keel MK, Brown JD (2008) Myxozoan Parasitism in Waterfowl. *International Journal for Parasitology* 38(10):1199-207
13. Garner MM, **Atkinson SD**, Hallett SL, Bartholomew JL, Nordhausen RW, Reed H, Adams L, Whitaker B (2008) Renal myxozoanosis in Weedy Sea Dragons (*Phyllopteryx taeniolatus*) caused by *Sinuolinea phyllopteryxa* n. sp. *Journal of Fish Diseases* 31(1):27-35
12. Bartholomew JL, **Atkinson SD**, Hallett SL, Zielinski CM, Foott JS (2007) Distribution and Abundance of the Salmonid Parasite *Parvicapsula minibicornis* (Myxozoa) in the Klamath River Basin (Oregon-California, USA). *Diseases of Aquatic Organisms* 78:137-146

11. Arsan EL, **Atkinson SD**, Hallett SL, Meyers T, Bartholomew JL (2007) Expanded geographical distribution of *Myxobolus cerebralis*: first detections from Alaska. *Journal of Fish Diseases* 30:483-491
10. **Atkinson SD**, Hallett SL, Bartholomew J (2007) The life cycle of *Chloromyxum auratum* (Myxozoa) from goldfish (*Carassius auratus*) involves an antonactinomyxon actinospore. *Journal of Fish Diseases*, 30:149-156
09. Bartholomew JL, Lorz HV, **Atkinson SD**, Hallett SL, Stevens DG, Holt RA, Lujan K, Amandi A (2007) Evaluation of a Management Plan to Control the Spread of *Myxobolus cerebralis* in a Lower Columbia River Tributary. *North American Journal of Fisheries Management*. 27:542–550
08. Hallett SL, **Atkinson SD**, Erséus C, El-Matbouli M (2006) Myxozoan parasites disseminated via oligochaete worms as live food for aquarium fishes: descriptions of aurantiactinomyxon and raabeia actinospore types. *Diseases of Aquatic Organisms* 69:213-225
07. Bartholomew JL, **Atkinson SD**, Hallett SL (2006) Involvement of *Manayunkia speciosa* (Annelida: Polychaeta: Sabellidae) in the life cycle of *Parvicapsula minibicornis*, a myxozoan parasite of pacific salmon. *Journal of Parasitology* 92:742-748
06. Hallett SL, **Atkinson SD**, Holt RA, Banner CR, Bartholomew JL (2006) A new myxozoan from feral goldfish (*Carassius auratus*). *Journal of Parasitology* 92:357-363
05. Hallett SL, **Atkinson SD**, Erséus C, El-Matbouli M (2005) Dissemination of triactinomyxons (Myxozoa) via oligochaetes used as live food for aquarium fish. *Diseases of Aquatic Organisms* 65:137-152
04. Hallett SL, **Atkinson SD**, Bartholomew JL (2005) Countering morphological ambiguities: development of a PCR assay to assist the identification of *Tubifex tubifex* oligochaetes. *Hydrobiologia*. 543:305-309
03. Hallett SL, **Atkinson SD**, Erséus C, El-Matbouli M (2004) Molecular methods clarify morphometric variation in triactinomyxon spores (Myxozoa) released from different oligochaete hosts. *Systematic Parasitology* 57:1-14
02. Hallett SL, **Atkinson SD**, Schöl H, El-Matbouli M (2003) Characterisation of two novel types of hexactinomyxon spores (Myxozoa) with subsidiary protrusions on their caudal processes. *Diseases of Aquatic Organisms* 55:45-57
01. Hallett SL, **Atkinson SD**, El-Matbouli M (2002) Molecular characterisation of two aurantiactinomyxon (Myxozoa) phenotypes reveals one genotype. *Journal of Fish Diseases* 25:627-631