

Svante Martinsson

Personal

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Researchgate: https://www.researchgate.net/profile/Svante_Martinsson

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Summary

I am a PhD with a robust understanding of molecular phylogenetics with particular focus on species delimitation and DNA barcoding. I have published 34 of peer reviewed papers, whereof 18 first author publications (including 3 single-authored), mainly focussing on species delimitations. I have published on a range of different taxa, from annelid worms to birds, and fungi, and I have described 8 new taxa. I have an extensive teaching record with over 1500 hours experience in 14 different undergraduate courses. I take pride in finishing projects on time.

Post-doctoral research experience

2020.01- Researcher	Department of Biological and Environmental Sciences, University of Gothenburg <i>Systematics of Clitellata</i>
2018.01-06 Researcher	Department of Biological and Environmental Sciences, University of Gothenburg. <i>Systematics of Clitellata</i>
2017.03-05 Researcher	Department of Biological and Environmental Sciences, University of Gothenburg. <i>Systematics of Clitellata</i>
2017.02-03 Researcher	Department of Marine Sciences, University of Gothenburg. <i>Development of a protocol for using ddPCR on eDNA to detect invasive and/or rare species</i>

Academic qualifications:

2012–2017 Doctor of Philosophy (PhD) in Zoological Systematics and Biodiversity.

Department of Biological and Environmental Sciences, University of Gothenburg.

Thesis: Exploring the species boundaries in terrestrial clitellates (Annelida: Clitellata),

Supervisor: Prof. Christer Erséus

defended 2016-11-18

2008–2010 Master in Biology with focus on Zoological Systematics and Biodiversity. 120 hp

University of Gothenburg.

Thesis: On the phylogeny of the fungus gnat genus *Boletina* (Diptera: Mycetophilidae) 45 hp.

Supervisors: Dr. Jostein Kjærandsen, Prof. Per Sundberg

2005–2008 Bachelor of Science in Biology (180 hp), University of Kalmar.

Thesis: Nordic Fungus Gnats of the Genus *Urytalpa* Edwards (Diptera: Keroplatidae) 15 hp.

Supervisor: Dr. Jostein Kjærandsen

Employment history

2020-01- Researcher	Department of Biological and Environmental Sciences, University of Gothenburg.
2019.08-12 Teaching assistant	Department of Biological and Environmental Sciences, University of Gothenburg.
2019.06-12 Research assistant	MaskMedMera
2019.03-06 Adjunct lecturer	Department of Biological and Environmental Sciences, University of Gothenburg.
2019.03-04 Marine Biologist	Marine Map Tech
2019.01-05 External examiner	University of South-East Norway
2018.09-11 Marine biologist	Marine Map Tech
2018.07-08 Adjunct lecturer	Department of Biological and Environmental Sciences, University of Gothenburg.
2018.01-06 Researcher	Department of Biological and Environmental Sciences, University of Gothenburg.
2017.07-2018.01 Marine biologist	Marine Map Tech
2017.03-05 Researcher	Department of Biological and Environmental Sciences, University of Gothenburg.
2017.02-03 Researcher	Department of Marine Sciences, University of Gothenburg.
2012.01–2017.02 PhD	Department of Biological and Environmental Sciences, University of Gothenburg.
2011 Laboratory assistant	Department of Zoology, University of Gothenburg.
2004-2009 Assistant	Swedish Malaise Trap Project, Swedish Museum of Natural History.

Publications

Submitted manuscripts

Erséus, C., Martin, P., **Martinsson, S.**, Timm, T. (submitted) PROPAPPUS Michaelsen, 1905 (Annelida, Clitellata): proposed precedence over PROPAPPUS Seeley, 1888 (Vertebrata, Reptilia)

Peer-reviewed scientific papers

Papers marked with “+” were included in my PhD thesis.

34. **Martinsson, S.**, Klinth, M., Erséus, C. (in press) Testing species hypotheses for *Fridericia magna*, an enchytraeid worm (Annelida: Clitellata) with great mitochondrial variation. *BMC Evolutionary Biology*, 20: 116. doi: 10.1186/s12862-020-01678-5
33. Srinivasan, S.* , **Martinsson, S.*** , Naveed, M.I. (in press) On the identity and phylogenetic position of *Dero indica* (Clitellata: Naididae). *Biologia*, Early online. doi:10.2478/s11756-020-00422-0
*joint first authors
32. Chakma, S., **Martinsson, S.**, Srinivasan, S., Ghani A.A., Adam, R., Naveed, M.I. (2020) Preliminary report on freshwater oligochaetes from some districts of Tamil Nadu (India), along with the DNA barcode sequence of a commercially important oligochaete in Chennai. *Zoosymposia*, 17: 45-52. doi: 10.11646/zoosymposia.17.1.7
31. **Martinsson, S.** (2019) A morphology-based identification key to the *Cognettia* species of the world (Clitellata: Enchytraeidae). *Soil Organisms*, 91: 37-43. doi:10.25674/so91103

30. Erséus, C., Klinth, M.J., Rota, E., De Wit, P., Gustafsson, D.R., **Martinsson, S.** (2019) The popular model annelid *Enchytraeus albidus* is only one species in a complex of seashore White Worms (Clitellata, Enchytraeidae). *Organisms Diversity & Evolution*, 19: 105-133. doi: 10.1007/s13127-019-00402-6
29. **Martinsson, S.**, Klinth, M., Erséus, C. (2018) A new Scandinavian *Chamaedrillus* species (Clitellata: Enchytraeidae), with additional notes on others. *Zootaxa*, 4521: 417-429. doi:10.11646/zootaxa.4521.3.7
28. Martin, P., **Martinsson, S.**, Wuillot, J., Erséus, C. (2018) Integrative species delimitation and phylogeny of the branchiate worm *Branchiodrilus* (Clitellata, Naididae). *Zoologica Scripta*, 47: 727-742. doi: 10.1111/zsc.12316
27. Rota, E., **Martinsson, S.**, Erséus, C., Petushkov, V. N., Rodionova N. S., Omodeo, P. (2018) Green light to an integrative view of *Microscolex phosphoreus* (Dugès, 1837) (Annelida: Clitellata: Acanthodrilidae). *Zootaxa*, 4496: 175-189. doi: 10.11646/zootaxa.4496.1.13
26. Rota, E., **Martinsson, S.**, Erséus, C. (2018) Two new bioluminescent *Henlea* from Siberia and lack of molecular support for *Hepatogaster* (Annelida, Clitellata, Enchytraeidae). *Organisms Diversity and Evolution*, 18: 291-312. doi: 10.1007/s13127-018-0374-6
25. **Martinsson, S.**, Erséus, C. (2018) Cryptic diversity in supposedly species-poor genera of Enchytraeidae (Annelida: Clitellata). *Zoological Journal of the Linnean Society*, 184: 749-762. doi:10.1093/zoolinnean/zlx084
24. **Martinsson, S.**, Erséus, C. (2018) Hybridisation and species delimitation of Scandinavian *Eisenia* spp. (Clitellata: Lumbricidae). *European Journal of Soil Biology*, 88: 41-47. doi: 10.1016/j.ejsobi.2018.06.003
23. Schmelz, R. M., Beylich, A., Boros, G., Dózsa-Farkas, K., Graefe, U., Hong, Y., Römbke, J., Schlaghamerský, J., **Martinsson, S.** (2017) How to deal with cryptic species in Enchytraeidae, with recommendations on taxonomical descriptions. *Opuscula Zoologica*, 48, Supplementum 2: 45-51. doi: 10.18348/opzool.2017.S2.45 (Authors 2-8 listed in alphabetical order)
22. Liu, Y., Fend, S. V., **Martinsson, S.**, Luo, X., Ohtaka, A., Erséus, C. (2017) Multi-locus phylogenetic analysis of the genus *Limnodrilus* (Annelida: Clitellata: Naididae). *Molecular Phylogenetics and Evolution*, 112: 244-257. doi:10.1016/j.ympev.2017.04.019.
21. Liu, Y., Fend, S. V., **Martinsson, S.**, Erséus, C. (2017) Extensive cryptic diversity in the cosmopolitan sludge worm *Limnodrilus hoffmeisteri* (Clitellata, Naididae). *Organisms Diversity & Evolution*. 17: 477–495. doi:10.1007/s13127-016-0317-z.
20. **Martinsson, S.**, Dózsa-Farkas, K., Rota, E., Erséus, C. (2017) Placing the forgotten: On the positions of *Euenchytraeus* and *Chamaedrillus* in an updated enchytraeid phylogeny (Clitellata: Enchytraeidae). *Invertebrate Systematics*, 31: 85-90. doi: 10.1071/IS16042.
- 19†. **Martinsson, S.**, Rhodén, C., Erséus, C. (2017) Barcoding gap, but no support for cryptic speciation in the earthworm *Aporrectodea longa* (Clitellata: Lumbricidae). *Mitochondrial DNA*, 28: 147-155. doi:10.3109/19401736.2015.1115487.
18. Klinth, M. J., **Martinsson, S.**, Erséus, C. (2017) Phylogeny and species delimitation of North European *Lumbricillus* (Clitellata, Enchytraeidae). *Zoologica Scripta*, 46: 96-110. doi:10.1111/zsc.12187.
- 17†. **Martinsson, S.**, Erséus, C. (2017) Cryptic speciation and limited hybridization within *Lumbricus* earthworms (Clitellata: Lumbricidae). *Molecular Phylogenetics and Evolution*, 106: 18-27. doi:10.1016/j.ympev.2016.09.011. **Selected as Editor's choice**
16. Torii, T., Erséus, C., **Martinsson, S.** & Ito, M. (2016) Morphological and genetic characterization of the first species of *Thalassodrilides* (Annelida: Clitellata: Naididae: Limnodriloidinae) from Japan. *Species Diversity*, 21: 117-125. doi:10.12782/sd.21.2.117.
15. Abarenkov, K., Adams, R.I., Laszlo, I., Agan, A., Ambrosio, E., Antonelli, A., Bahram, M., Bengtsson-Palme, J., Bok, G., Cangren, P., Coimbra, V., Coleine, C., Gustafsson, C., He, J., Hofmann, T.,

- Kristiansson, E., Larsson, E., Larsson, T., Liu, Y., **Martinsson, S.**, Meyer, W., Panova, M., Pombubpa, N., Ritter, C., Ryberg, M., Svantesson, S., Scharn, R., Svensson, O., Töpel, M., Unterseher, M., Visagie, C., Wurzbacher, C., Taylor, A.F.S., Köljalg, U., Schriml, L., Nilsson, R.H. (2016) Annotating public fungal ITS sequences from the built environment according to the MIxS-Built Environment standard – a report from a May 23-24, 2016 workshop (Gothenburg, Sweden). *MycKeys*, 16: 1-15. doi:10.3897/mycokeys.16.10000. (Authors 4-32 are listed alphabetically)
14. **Martinsson, S.** (2016) A case of total absence of yellow in the Golden Whistler *Pachycephala pectoralis*. *Australian Field Ornithology*, 33: 28-29. doi:10.20938/af033028029.
13. Rota, E., **Martinsson, S.**, Bartoli, M., Beylich, A., Graefe, U., Laini, A., Wetzel, M.J., Erséus, C. (2016) Mitochondrial evidence supports a Nearctic origin for the spreading limicolous earthworm *Sparganophilus tamesis* Benham, 1892 (Clitellata, Sparganophilidae). *Contributions to Zoology*, 85: 113-119. doi: 10.1163/18759866-08501005.
12. **Martinsson, S.**, Cui, Y., Martin, P. J., Pinder, A., Quinlan, K., Wetzel, M. J., Erséus, C. (2015) DNA-barcoding of invasive European earthworms (Clitellata: Lumbricidae) in south-western Australia. *Biological Invasions*, 17: 2527-2532. doi:10.1007/s10530-015-0910-7. (Authors 2-6 listed alphabetically)
11. **Martinsson, S.**, Rota, E., Erséus, C. (2015) On the identity of *Chamaedrillus glandulosus* (Michaelsen, 1888) (Clitellata, Enchytraeidae), with the description of a new species. *Zookeys*, 501: 1-14. doi:10.3897/zookeys.501.9279.
- 10†. **Martinsson, S.**, Rota, E., Erséus, C. (2015) Revision of *Cognettia* (Clitellata, Enchytraeidae): re-establishment of *Chamaedrillus* and description of cryptic species in the *sphagnetorum* complex. *Systematics and Biodiversity*, 13, 257-277. doi:10.1080/14772000.2014.986555
9. Wahlberg, E., Baião, G. C., Häggqvist, S., **Martinsson, S.**, Pistone, D., Pape, T. (2014) *Ancistrocerus waldenii waldenii* (Viereck 1906) (Hymenoptera: Vespidae, Eumeninae), a new addition to the fauna of Greenland. *Zootaxa*, 3838, 143-150. doi:10.11646/zootaxa.3838.1.9. (Authors 2-5 listed alphabetically)
8. Nilsson, R.H., Hyde, K.D., Pawlowska, J., Ryberg, M., Tedersoo, L., Aas, A.B., Alias, S.A., Alves, A., Anderson, C.L., Antonelli, A., Arnold, A.E., Bahnmann, B., Bahram, M., Bengtsson-Palme, J., Berlin, A., Branco, S., Chomnunti, P., Dissanayake, A., Drenkhan, R., Friberg, H., Froslev, T.G., Halwachs, B., Hartmann, M., Henricot, B., Jayawardena, R., Jumpponen, A., Kauserud, H., Koskela, S., Kulik, T., Liimatainen, K., Lindahl, B.D., Lindner, D., Liu, J.K., Maharachchikumbura, S., Manamgoda, D., **Martinsson, S.**, Neves, M.A., Niskanen, T., Nylinder, S., Pereira, O.L., Pinho, D.B., Porter, T.M., Queloz, V., Riit, T., Sanchez-Garcia, M., de Sousa, F., Stefanczyk, E., Tadych, M., Takamatsu, S., Tian, Q., Udayanga, D., Unterseher, M., Wang, Z., Wikee, S., Yan, J.Y., Larsson, E., Larsson, K.H., Koljalg, U., Abarenkov, K. (2014) Improving ITS sequence data for identification of plant pathogenic fungi. *Fungal Diversity*, 67: 11-19. doi: 10.1007/s13225-014-0291-8. (Authors 6-54 listed alphabetically)
- 7†. **Martinsson, S.**, Erséus, C. (2014) Cryptic diversity in the well-studied terrestrial worm *Cognettia sphagnetorum* (Clitellata: Enchytraeidae). *Pedobiologia*, 57: 27-35. doi:10.1016/j.pedobi.2013.09.006.
6. Timm, T., Arslan, N., Rüzgar, M., **Martinsson, S.**, Erséus, C. (2013). Oligochaeta (Annelida) of the profundal of Lake Hazar (Turkey), with description of *Potamothrix alatus hazaricus* n. ssp. *Zootaxa*, 3716: 144-156. doi:10.11646/zootaxa.3716.2.2.
- 5†. **Martinsson, S.**, Achurra, A., Svensson, M., Erséus, C. (2013) Integrative taxonomy of the freshwater worm *Rhyacodrillus falciformis* s.l. (Clitellata: Naididae), with the description of a new species. *Zoologica Scripta*, 42: 612–622. doi:10.1111/zsc.12032.
4. **Martinsson, S.**, Kjærandsen, J. (2012) *Katatopygia* gen. n., a monophyletic branch segregated from *Boletina* (Diptera, Mycetophilidae). *Zookeys*, 175: 37-67. doi:10.3897/zookeys.175.2388.
3. **Martinsson, S.**, Kjaerandsen, J., Sundberg, P. (2011) Towards a molecular phylogeny of the fungus gnat

genus *Boletina* (Diptera: Mycetophilidae). *Zoologica Scripta*, 40: 272-281. doi:10.1111/j.1463-6409.2011.00474.x.

2. **Martinsson, S.** (2011) Nya fynd av rödlistade och sällsynta platthornsmyggor (Diptera: Keroplatidae) från Svenska Malaisefälleprojektet. *Entomologisk Tidskrift*, 132: 194-196.
1. Kjærandsen, J., **Martinsson, S.**, Hedmark, K., Evenhuis, N. L. (2009) On the genus *Urytalpa* Edwards (Diptera: Keroplatidae) in the Nordic and Nearctic regions, with fixation of a new type species and a key to world males. *Zootaxa*, 2160: 29-50.

Non peer-reviewed scientific contributions

Rota, E., **Martinsson, S.**, Erséus, C. (2015). Comment on the proposed precedence of *Cognettia* Nielsen & Christensen, 1959 over *Euenchytraeus* Bretscher, 1906 and *Chamaedrillus* Friend, 1913 (Annelida, Oligochaeta, ENCHYTRAEIDAE) (Case 3689; see BZN 72: 186–192). *Bulletin of Zoological Nomenclature*, 72: 303-307.

Martinsson, S., Rota, E., Erséus, C. (2015). Corrigenda: Martinsson S, Rota E, Erséus C (2015) On the identity of *Chamaedrillus glandulosus* (Michaelson, 1888) (Clitellata, Enchytraeidae), with the description of a new species. *ZooKeys* 501: 1–14. doi: 10.3897/zookeys.501.9279. *Zookeys*, 504: 153-154. doi:10.3897/zookeys.504.9972.

Popular science

Lundin, K., Malmberg, K., **Martinsson, S.**, Picton, B. (2017) Ny snigelkott på Västkusten. *Fauna och Flora*, 112, 3: 18-19

Conference presentations

Martinsson, S., Klinth, M., Erséus, C. (2018). A new limnic *Chamaedrillus* species (Clitellata: Enchytraeidae) from Scandinavia (Poster presentation) *International Symposium on Enchytraeidae XIII*. Versailles, France. June 4-6, 2018

Martinsson, S. (2016). Is *Stercutus* really monotypic? (Oral presentation) *International Symposium on Enchytraeidae XII*. Tiahny, Hungary. June 27-29, 2016

Martinsson, S. (2015). On the systematics of *Chamaedrillus* and *Euenchytraeus* (Enchytraeidae). (Oral presentation) *13th International Symposium on Aquatic Oligochaeta*. Brno, Czech Republic. September 7-11, 2015

Martinsson, S., Erséus, C. (2014). Diversity of *Cognettia* in Northern Europe. (Oral Presentation) *International Symposium on Enchytraeidae XI*. Osnabrück, Germany. July 25-27, 2014

Martinsson, S. (2013). Cryptic diversity, delimitation and phylogeny of Nordic species of *Cognettia* (Clitellata: Enchytraeidae). (Oral presentation) *ForBio annual meeting*. Oslo, Norway. Mars 4-6, 2013

Martinsson S., Erséus C. (2012). Species delimitation and phylogeny of Nordic *Cognettia* (Clitellata: Enchytraeidae). (Oral presentation) *12th International Symposium on Aquatic Oligochaeta*. Fremantle, Western Australia, Australia. September 10-13, 2012

Awards

Best student presentation, at 12th International Symposium on Aquatic Oligochaeta, Australia, 2012.

Grants and scholarships

2017 The Royal Society of Arts and Sciences in Gothenburg
Support for DNA-sequencing

11 000 SEK

2016 The Royal Society of Arts and Sciences in Gothenburg Travel grant for the International Symposium on Enchytraeidae XII, Hungary	10 000 SEK
2015 Royal Society of Arts and Sciences in Gothenburg Support for DNA-sequencing	19 000 SEK
2014 The Royal Society of Arts and Sciences in Gothenburg, Support for DNA-sequencing and software	25.100 SEK
2014 The Herbert and Karin Jacobsson foundation Travel grant for the 13 th International Symposium on Aquatic Oligochaeta, Czech Republic	10.000 SEK
2014 The Paul and Marie Berghaus endowment fund Travel grant for the International Symposium on Enchytraeidae XI, Germany	10.000 SEK
2013 The Wilhelm and Martina Lundgren Research foundation Support for taxonomic revision of the <i>Cognettia sphagnetorum</i> -complex	20.000 SEK
2013 The Adlebert Foundation Travel grant, support for fieldwork in Victoria, Australia]	19.000 SEK
2013 The Paul and Marie Berghaus endowment fund Travel grant for PhD students, support for fieldwork in Poland and the Czech Republic	10.000 SEK
2012 The Adlebert Foundation Travel grant for the 12 th International Symposium on Aquatic Oligochaeta, Australia	22.500 SEK
2012 The Paul and Marie Berghaus endowment fund Travel grant for the 12 th International Symposium on Aquatic Oligochaeta, Australia	10.000 SEK

Teaching experience

Undergraduate courses

Lecturer

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| • Naturvetenskapligt basår | NBAB10/20 | 2018-2020 (230 h) |
| • Floristik och Faunistik | BIO145 | 2018 (120 h) |

Teaching assistant

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| • Marinbiologisk orienteringskurs | BIO040 | 2012 (35 h) |
| • Orienteringskurs artkännedom, växt-djur | BIO050 | 2012-2016 (124 h) |
| • Floristik och Faunistik | BIO145 | 2012-2016 (190 h) |
| • Organismers adaptationer | BIO185 | 2012-2013 (100 h) |
| • Naturvetenskapligt basår | NBAB10/20 | 2012-2016 (149 h) |
| • Biologi för gymnasiet 1 | LGBI10 | 2012-2016, 2020 (180 h) |
| • Biologi för gymnasiet 2 | LGBI20 | 2015 (10 h) |
| • Stream Ecology | BOI565 | 2012-2019 (190 h) |
| • Organismvärldens systematik och evolution | BIO920 | 2012-2015, 2019 (180 h) |
| • Grundläggande evolutionära och ekologiska principer | MAR105/MAV106 | 2012-2020 (94 h) |
| • Ornithological identification methodology | BIO502 | 2016 (40 h) |
| • Ekologi och evolution | BIO915 | 2015 (20 h) |
| • Läkemedelsrådgivning och kommunikation | LRK200 | 2015 (8 h) |

External examiners

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| • Biologi og Miljø | 4014 | 2019 (9 h) |
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Professional services

University service

2013-2016 PhD student representative, Advisory Board of Research
Dept. of Biological and Environmental Sciences, University of Gothenburg

Society services

2019 Election committee, Swedish Association of Systematic Biologists (Svenska Systematikföreningen)
2016- 2018 Board member, Swedish Association of Systematic Biologists (Svenska Systematikföreningen)

Manuscript Reviewer

I have reviewed manuscripts for the following journals, number of manuscripts in parenthesis.

Anais da Academia Brasileira de Ciencias (1), *BioInvasions Records* (1), *BMC Evolutionary Biology* (1), *Contributions to Zoology* (1), *Ecological Indicators* (1), *Ecology Letters* (1), *European Journal of Taxonomy* (1), *Folia Biologica (Kraków)* (1), *Frontiers in Genetics* (1), *Journal of Biogeography* (1), *Mitochondrial DNA* (1), *Molecular Phylogenetics and Evolution* (1), *PeerJ* (1), *Pedobiologia* (1), *PLOS ONE* (2), *Systematic Entomology* (1), *Turkish Journal of Zoology* (1), *Zookeys* (2), *Zoologica Scripta* (2), *Zootaxa* (6)

New taxa

- *Chamaedrillus asloae* Martinsson, Klinth & Erséus, 2018 (now in *Cognettia*) Enchytraeidae
- *Henlea rodionovae* Rota, Martinsson & Erséus, 2018 Enchytraeidae
- *Henlea petushkovi* Rota, Martinsson & Erséus, 2018 Enchytraeidae
- *Chamaedrillus varisetosus* Martinsson, Rota & Erséus, 2015 (now in *Cognettia*) Enchytraeidae
- *Chamaedrillus chalupskyi* Martinsson, Rota & Erséus, 2015(now in *Cognettia*) Enchytraeidae
- *Chamaedrillus pseudosphagnetorum* Martinsson, Rota & Erséus, 2015 (now in *Cognettia*) Enchytraeidae
- *Rhyacodrillus pigueti* Achurra & Martinsson, 2013 Naididae
- *Katatopygia* Martinsson & Kjærandsen, 2012 Mycetophilidae