

SINGER David

Date de naissance : 26.10.1985
Nationalité : Suisse
Etat civil : Célibataire
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Biologist specialised in microbial ecology and diversity

Research interests

My research areas focus on soils ecosystems with an emphasis on the diversity and ecology of microorganisms. On-going projects focus on the application of new approaches to assess ecosystem ecological status.

Education

2023-Now	Postdoc	Sol et Environnement, HES-SO Changins, Switzerland
2022-2023	Postdoc	InfoFauna—Swiss Zoological Records Center, Neuchâtel, Switzerland
2022-2023	Postdoc	Inventaire et Barcoding Faune du Sol, Horizon A, Neuchâtel, Switzerland
2020-2022	Postdoc	UMR CNRS 6112 LPG, University of Angers, France
2019-2020	Postdoc	Laboratory of Evolutionary Protistology, University of São Paulo, Brazil Patterson Laboratory, University of Carleton, Ottawa, Canada Real Jardín Botánico de Madrid, Madrid, Spain
2017-2019	Postdoc	Laboratory of Soil Biodiversity, University of Neuchâtel, Switzerland
2012-2017	PhD degree	Laboratory of Soil Biodiversity, University of Neuchâtel, Switzerland

Personal grants

- 2023 Neotropical Myxobiota VII - Study of the diversity of Amoebozoa (Myxomycetes and Arcellinida) in the Mata Atlántica forest of Brazil. Assessment in function of its conservation status. Collaboration between « Generación de Conocimiento » and CSIC Real Jardín Botánico of Madrid, Spain, PI: Enrique Lara, Collaborator: **David Singer** Funding: **215'000 EUR**
- 2018 From environmental metabarcoding/metatranscriptomic to a single-cell transcriptomics: evaluation of human impact on the microeukaryotic diversity of the Tietê River, Sao Paulo, Brazil, Swiss National Fund, Early Postdoc Mobility grant (P2NEP3-178543), 18 months of Postdoctoral salary, PI: **David Singer**, Funding: **87'666 CHF**
- 2015 Swiss Barcoding Of Life initiative "Morphologic and genetic description of new cryptic species in the *Nebela collaris* species complex (Hyalospheniidae, Arcellinida)", PI: **David Singer** Funding: **3'000 CHF**

Mentoring experience

- 2020-2022 **Marie Fouet**, PhD. Co-supervisor 20% (adv. Prof. Frans Jorissen), University of Angers, France. Title: Impact of human activities on benthic foraminifera communities – Development of a foraminiferal bio-monitoring tool for intertidal estuarine mudflats.
- 2015 **Clément Duckert**, M Sc. Co-supervisor (adv. Dr. Enrique Lara), University of Neuchâtel, Suisse. Title: Calibration of a molecular clock for genus *Euglypha* (Rhizaria, Cercozoa) – Awarded the Louis Paris Prize for best MSc thesis in botany or microbiology from the University of Neuchâtel and the best MSc thesis prize from the Swiss Society of Systematics.

Awards

- 12.09.2018 Laureate of the "**Helen Tappan, Early Career Researcher Award 2018**" from the International Society of Testate Amoeba Researchers - ISTAR in recognition of a contribution to fundamental advances in understanding the taxonomy, community structure, and functional ecology of testate amoeba.
- 01.03.2018 Laureate of the "**Karl Gottlieb Grell Award 2018**" of the German Society of Protozoology in recognition of an outstanding contribution in the field of protistological research.
- 16.11.2017 Laureate of the "**Prix Jean-Luc Crélerot 2018**" of the University of Neuchâtel, in recognition of the best PhD in the "evolution of the organisms" field of research.

Publication record (01.2024)

H index

- Scopus: 17 (1277 citations) [Link](#)
- Google scholar: 19 (1688 citations) [Link](#)

Quartile ranking

- Q1 = 33 publications
- Q2 = 6 publications

First author/Last authors: 8/2

2024

39) It's time to consider the Arcellinida shell as a weapon

*Dumack K, Lara E, Duckert C, Ermolaeva E, Siemensma F, **Singer D**, Krashevskaya V, Lamentowicz M, Mitchell EAD*

European Journal of Protistology, Q2, IF: 3,5 [Link](#)

2023

38) Unlocking foraminiferal genetic diversity on estuarine mudflats with eDNA metabarcoding

Singer D, Fouet MPA, Schweizer M, Mouret A, Quincharde S, Jorissen FJ

Science of the Total Environment, Q1, IF: 10,7 [Link](#)

37) A needle in a haystack: a new metabarcoding approach to survey diversity at the species level of Arcellinida (Amoebozoa: Tubulinea)

González-Miguéns R, Cano E, Guillén-Oterino A, Quesada A, Lahr DJG, Tenorio-Rodríguez D, de Salvador-Velasco D, Velázquez D, Carrasco-Braganza MI, Patterson RT, Lara E, **Singer D*

Molecular Ecology Resources, Q1, IF: 8,7 [Link](#)

36) Global distribution modelling of a conspicuous Gondwanian soil protist reveals latitudinal dispersal limitation and range contraction in response to climate warming

*Bruni EP, Rusconi O, Broennimann O, Adde A, Jauslin R, Krashevskaya V, Kosakyan A, Armynot du Chatelet E, Alcino JPB, Beyens L, Blandenier Q, Bobrov A, Burdman L, Duckert C, Fernández LD, Gomes-e Souza MB, Guisan A, Heger TJ, Koenig I, Lahr DJG, McKeown M, Meisterfeld R, **Singer D**, Voelcker E, Wilkinson DM, Wilmshurst J, Wohlhauser S, Mitchell EAD.*

Diversity and Distributions, Q1, IF: 5,6 [Link](#)

- 35) **DNA Sequences of Pathogenic and Potentially Pathogenic Microbial Eukaryotes in Protected Mountain Granite Rocks**
Velasco-González I, Lara E, Singer D, de Cos-Gandoy A, García-Rodríguez M, Murciano A, Pérez-Uz B, Williams R, Sanchez-Jimenez A, Martín-Cereceda M
Diversity, Q1, IF: 3,9 [Link](#)
- 34) **Through the eDNA looking glass: Responses of fjord benthic foraminiferal communities to contrasting environmental conditions**
Brinkmann I, Schweizer M, Singer D, Quincharde S, Barras C, Bernhard JM, Filipsson HL
Journal of Eukaryotic Microbiology, Q2, IF: 3,9 [Link](#)
- 33) **Landscape structure is a key driver of soil protist diversity in meadows in the Swiss Alps**
Sepey CVW, Lara E, Broennimann O, Guisan A, Malard L, Singer D, Yashiro E, Fournier B
Landscape Ecology, Q1, IF: 4,7 [Link](#)
- 2022
- 32) **Discrepancies between prokaryotes and eukaryotes need to be considered in soil DNA-based studies**
Lara E, Singer D, Geisen S
Environmental Microbiology, Q1, IF: 5,5 [Link](#)
- 31) **The Marine Influence Index (MII): a tool to evaluate foraminiferal assemblages in estuarine intertidal mudflats**
Jorissen FJ, Fouet MPA, Singer D, Howa H
Water, Q1, IF: 3.5 [Link](#)
- 30) **Foraminiferal distribution in two estuarine intertidal mudflats of the French Atlantic coast: testing the Marine Influence Index**
**Fouet MPA, Singer D, Coynel A, Hélot S, Howa H, Lalande J, Mouret A, Schweizer M, Tcherkez G, Jorissen FJ*
Water, Q1, IF: 3.5 [Link](#)
- 2021
- 29) **Protist taxonomic and functional diversity in soil, freshwater and marine ecosystems**
Singer D, Sepey CVW, Lentendu G, Dunthorn M, Bass D, Belbahri L, Blandenier Q, Debroas D, de Groot GA, de Varga C, Domaizon I, Duckert C, Izaguirre I, Koenig I, Mataloni G, Schiaffino MR, Mitchell EAD, Geisen S, Lara E
Environment International, Q1, IF: 13,4 [Link](#)
- 28) **Soil protist function varies with elevation in the Swiss Alps**
Mazel F, Malard L, Niculita-Hirzel H, Yashiro E, Mod HK, Mitchell EAD, Singer D, Buri A, Guex N, Lara E, Guisan A
Environmental Microbiology, Q1, IF: 5,5 [Link](#)
- 27) **Niche conservatism drives the elevational diversity gradient in major groups of free-living soil unicellular eukaryotes**
Fernández LD, Sepey CVW, Singer D, Fournier B, Tatti D, Mitchell EAD, Lara E
Microbial Ecology, Q1, IF: 4,2 [Link](#)
- 26) **Phylogenetic diversity and dominant ecological traits of freshwater Antarctic Chrysophyceae**
Izaguirre I, Unrein F, Schiaffino MR, Lara E, Singer D, Balagué V, Gasol JM, Massana R
Polar Biology, Q1, IF: 2,2 [Link](#)
- 25) ***Erugomicula*, a new genus of Arcellinida (testate lobose amoebae)**
Nasser NA, Gregory BRB, Singer D, Patterson RT, Roe HM
Palaeontologia Electronica, Q2, IF: 1.9 [Link](#)

24) Environmental drivers of *Sphagnum* growth in peatlands across the Holarctic region

Bengtsson F, Rydin H, Baltzer JL, Bragazza L, Bu Z-J, Caporn SJM, Dorrepaal E, Flatberg KI, Galanina O, Gałka M, Ganeva A, Goia I, Goncharova N, Hájek M, Haraguch A, Harris LI, Humphreys E, Jiroušek M, Kajukalo K, Karofeld E, Koronatova NG, Kosykh NP, Laine AM, Lamentowicz M, Lapshina E, Limpens J, Linkosalmi M, Ma J-Z, Mauritz M, Mitchell EAD, Munir TM, Natali SM, Natcheva R, Payne RJ, Philippov DA, Rice SK, Robinson S, Robroek BJM, Rochefort L, **Singer D**, Stenøien HK, Tuittila E-S, Vellak K, Waddington JM, Granath G

Journal of Ecology, Q1, IF: 6,4 [Link](#)

2020

23) High-throughput sequencing of litter and moss eDNA reveals a positive correlation between the diversity of Apicomplexa and their invertebrate hosts across alpine habitats

Singer D, Duckert C, Heděnc P, Lara E, Hiltbrunner E, Mitchell EAD

Soil Biology and Biochemistry, Q1, IF: 8,5 [Link](#)

22) Greater topoclimatic control of above- versus below-ground communities

Mod HK, Scherrer D, Di Cola V, Broennimann O, Blandenier Q, Breiner FT, Buri A, Goudet J, Guex N, Lara E, Mitchell EAD, Niculita-Hirzel H, Pagni M, Pellissier L, Pinto-Figueroa E, Sanders IR, Schmidt BR, Seppey CVW, **Singer D**, Ursenbacher S, Yashiro E, van der Meer JR, Guisan A

Global Change Biology, Q1, IF: 13,2 [Link](#)

21) Testate amoeba functional traits and their use in paleoecology

Marcisz K, Jassey VEJ, Kosakyan A, Krashevskaya V, Lahr DJG, Lara E, Lamentowicz Ł, Lamentowicz M, Macumber A, Mazei Y, Mitchell EAD, Nasser NA, Patterson RT, Roe HM, **Singer D**, Tsyganov AN, Fournier B

Frontiers in Ecology and Evolution, Q1, IF: 4,5 [Link](#)

20) Soil protist diversity in the Swiss western Alps is better predicted by topo-climatic than by edaphic variables

Seppey CVW, Broennimann O, Buri A, Yashiro E, Pinto-Figueroa E, **Singer D**, Blandenier Q, Mitchell EAD, Niculita-Hirzel H, Guisan A, Lara E

Journal of Biogeography, Q1, IF: 4,8 [Link](#)

2019

19) Dispersal limitations and historical factors determine the biogeography of specialized terrestrial protists

Singer D, Mitchell EAD, Payne RJ, Blandenier Q, Duckert C, Fernández LD, Fournier B, Hernández CE, Granath G, Rydin H, Bragazza L, Koronatova NG, Goia I, Harris LI, Kajukalo K, Kosakyan A, Lamentowicz M, Kosykh NP, Vellak K, Lara E

Molecular Ecology, Q1, IF: 6,6 [Link](#)

18) Contrasted Micro-Eukaryotic Diversity Associated with Sphagnum Mosses in Tropical, Subtropical and Temperate Climatic Zones

Singer D, Metz S, Unrein F, Shimano S, Mazei Y, Mitchell EAD, Lara E

Microbial Ecology, Q1, IF: 4,2 [Link](#)

17) Global distribution of Trebouxiophyceae diversity explored by high-throughput sequencing and phylogenetic approaches

Metz S, **Singer D**, Domaizon I, Unrein F, & Lara E

Environmental Microbiology, Q1, IF: 5,5 [Link](#)

16) Rain-fed granite rock basins accumulate a high diversity of dormant microbial eukaryotes

Velasco-González I, Sanchez-Jimenez A, **Singer D**, Murciano A, Díez-Hernando S, Lara E, Martín-Cereceda M. 2019

Microbial Ecology, Q1, IF: 4,2 [Link](#)

2018

- 15) **Environmental filtering and phylogenetic clustering correlate with the distribution patterns of cryptic microeukaryotic species in peatlands**

Singer D, Kosakyan A, Sepey CVW, Pillonel A, Fernández LD, Fontaneto D, Mitchell EAD, Lara E

Ecology, Q1, IF: 6,4 [Link](#)

- 14) **En garde! Redefinition of *Nebela militaris* (Arcellinida, Hyalospheniidae) and erection of *Alabasta* gen. nov.**

**Duckert C, Blandenier Q, Kupferschmid FAL, Kosakyan A, Mitchell EAD, Lara E, Singer D*

European Journal of Protistology, Q2, IF: 3,5 [Link](#)

- 13) **Soil protists: a fertile frontier in soil biology research.**

Stefan G, Mitchell EAD, Adl S, Bonkowski M, Dunthorn M, Ekelund F, Fernández L, Jousset A, Krashevskaya V, Singer D, Spiegel F, Walochnik J, Lara E

FEMS Microbiology Reviews, Q1, IF: 15,2 [Link](#)

- 12) **Environmental and taxonomic controls of carbon and oxygen stable isotope composition in Sphagnum across broad climatic and geographic ranges.**

Granath G, Rydin H, Baltzer JL, Bengtsson F, Boncek N, Bragazza L, Bu ZJ, Caporn SJM, Dorrepaal E, Galanina O, Gałka M, Ganeva A, Gillikin DP, Goia I, Goncharova N, Hájek M, Haraguchi A, Harris LI, Humphreys E, Jiroušek M, Kajukalo K, Karofeld E, Koronátová NG, Kosykh NP, Lamentowicz M, Lapshina E, Limpens J, Linkosalmi M, Ma JZ, Mauritz M, Munir TM, Natali S, Natcheva R, Noskova M, Payne RJ, Pilkington K, Robinson S, Robroek BJM, Rochefort L, Singer D, Stenøien HK, Tuittila ES, Vellak K, Verheyden A, Waddington JM, Rice SK

Biogeosciences, Q1, IF: 5,1 [Link](#)

- 11) **Effect of dry-rewetting stress on response pattern of soil prokaryotic communities in alpine meadow soil.**

Hedenec P, Singer D, Li J, Yao M, Lin Q, Li H, Kukla J, Cajthaml T, Frouz J, Rui J, Li X

Applied Soil Ecology, Q1, IF: 5,5 [Link](#)

- 10) **Comparative analysis of bones, mites, soil chemistry, nematodes and soil micro-eukaryotic communities of a suspected homicide to estimate a long post-mortem interval.**

Szelecz I, Löscher S, Sepey CVW, Lara E, Singer D, Sorge F, Tschui J, Perotti MA, Mitchell EAD

Scientific Reports, Q1, IF: 5 [Link](#)

2017

- 9) **Soil protistology rebooted: 30 fundamental questions to start with.**

Geisen S, Mitchell EAD, Wilkinson DM, Adl S, Bonkowski M, Brown MW, Fiore-Donno AM, Heger TJ, Jassey VEJ, Krashevskaya V, Lahr DJG, Marcisz K, Mulot M, Payne R, Singer D, Anderson OR, Charman DJ, Ekelund F, Griffiths BS, Rønner R, Smirnov A, Bass D, Belbahri L, Berney C, Blandenier Q, Chatzinotas A, Clarholm M, Dunthorn M, Feest A, Fernandez-Parra LD, Foissner W, Fournier B, Gentekaki E, Hájek M, Helder J, Jousset A, Koller R, Kumar S, La Terza A, Lamentowicz M, Mazei Y, Santos SS, Sepey CVW, Spiegel FW, Walochnik J, Winding A, Lara E. 2017

Soil Biology and Biochemistry, Q1, IF: 8,5 [Link](#)

- 8) **Distribution patterns of soil microbial eukaryotes suggests widespread algivory by phagotrophic protists as an alternative pathway for nutrient cycling.**

Sepey C, Singer D, Dumack K, Belbahri L, Mitchell EAD, Lara E

Soil Biology and Biochemistry, Q1, IF: 8,5 [Link](#)

- 7) **Parasites dominate hyperdiverse soil protist communities in Neotropical rainforests**

Mahé F, de Vargas C, Bass D, Czech L, Stamatakis A, Lara E, Singer D, Mayor J, Bunge J, Sernaker S, Siemensmeyer T, Trautmann I, Romac S, Berney C, Kozlov A, Mitchell EAD, Sepey CVW, Egge E, Lentendu G, Wirth R, Trueba G, Dunthorn M

Nature Ecology & Evolution, Q1, IF: 19,1 [Link](#)

2016

- 6) **High-throughput sequencing reveals diverse oomycete communities in oligotrophic peat bog micro-habitat.**

Singer D, Lara E, Steciow MM, Seppey CVW, Paredes N, Pillonel A, Oszako T, Belbahri L

Fungal Ecology, Q1, IF: 4,2 [Link](#)

- 5) **Microbial eukaryote communities from Patagonian-Antarctic gradient of lakes evidence of a biogeographical pattern.**

Schiaffino MR, Lara E, Fernández LD, Balagué V, Singer D, Seppey CVW, Massana R, Izaguirre I

Environmental microbiology, Q1, IF: 5,5 [Link](#)

- 4) ***Mycamoeba gemmipara* nov. gen., nov. sp., the First Cultured Member of the Environmental Dermamoebidae Clade LKM74 and its Unusual Life Cycle.**

Blandenier Q, Seppey CVW, Singer D, Vlimant M, Simon A, Duckert C, Lara E

Journal of Eukaryotic Microbiology, Q2, IF: 3,9 [Link](#)

2015

- 3) **Eight species in the *Nebela collaris* complex: *Nebela gimlii* (Arcellinida, Hyalospheniidae), a new species described from a Swiss raised bog**

Singer D, Kosakyan A, Pillonel A, Mitchell EAD, Lara E

European Journal of Protistology, Q2, IF: 3,5 [Link](#)

- 2) **Planktonic eukaryote molecular diversity: discrimination of minerotrophic and ombrotrophic peatland pools in Tierra del Fuego (Argentina).**

Lara E, Seppey CVW, Garraza GG, Singer D, Quiroga MV, Mataloni G

Journal of Plankton Research, Q1, IF: 2,5 [Link](#)

- 1) **Response of forest soil euglyphid testate amoebae (Rhizaria: Cercozoa) to pig cadavers assessed by high-throughput sequencing.**

Seppey CVW, Fournier B, Szelecz I, Singer D, Mitchell EAD, Lara E

International journal of legal medicine, Q1, IF: 2,8 [Link](#)

*Research student supervision (publication number 14, 30 and 36)

Reviewer for:

Nature Ecology & Evolution,
Metabarcoding and Metagenomics,
Science of the Total Environment,
Soil Biology and Biochemistry,
Journal of Eukaryotic Microbiology,
Journal of Limnology

Ecology Letters,
Molecular Ecology,
Microbial Ecology,
Protist,
Environmental Science and Pollution Research,
Geoderma

Land Degradation & Development,
Environmental Microbiology,
Plos One,
FEMS Microbiology Ecology,

Teaching experience

University of Neuchâtel: Period 2017-18

BSc courses Protists I, course (14h/yr, 1 ECTS) lectures
 Protists and Invertebrates practical course (28h/yr, 2 ECTS)
 Protists II, course (28h/yr, 2 ECTS) lectures
 Protists II, practical course (14h/yr, 1 ECTS)
MSc courses Seminar Biodiversity (42h/yr, 3 ECTS)

Organisation of meetings

- 22-23.11.2021 Protist eDNA – Bio-informatics workshop, Online and Angers France (Main organiser)
- 03.07.2019 Mini-Symposium: Microeukaryotes as tools to shed light on environmental questions, São Paulo, Brazil (organising committee)
- 23-26.02.2016 35th Annual Meeting of the German Society for Protozoology, Saignelegier, Switzerland (Organising committee)

Contributions to international/national meetings

2023

02-06.10.2023 International Symposium on Testate Amoebae (ISTA10), Madrid, Spain

Introducing a metabarcoding approach to survey Arcellinida diversity at the species level: fast, cheap and accurate **Singer D**, González-Miguéns R, Lahr DJG, Patterson RT, Lara E

2022

05-08.09.2022 ECSA 59, Kursaal, San Sebastian, Spain

Biomonitoring of the intertidal zone using Foraminifera eDNA metabarcoding. **Singer D**, Fouet MPA, Schweizer M, Quinchard S, Jorissen FJ

12-15.07.2022 41st Annual Meeting of the German Society for Protozoology, Bergisch Gladbach, Germany

Biomonitoring of the intertidal zone using Foraminifera eDNA metabarcoding. **Singer D**, Fouet MPA, Schweizer M, Quinchard S, Jorissen FJ

2021

22-23.11.2021 Protist eDNA – Bio-informatics workshop, Online and Angers France

Introduction of main eDNA concepts (from sampling to sequencing). **Singer D**

2020

04-06.03.2020 39th Annual Meeting of the German Society for Protozoology, Kaiserslautern, Germany

Evaluation of parasitic diversity using environmental DNA approach. **Singer D**, Duckert C, Lara E, Mitchell EAD

2019

02-03.12.2019 Interuniversity Doctoral Program in Organismal Biology: Protists diversity and ecology in aquatic and terrestrial ecosystems - joint with CUSO EE, Neuchâtel, Switzerland

Environmental DNA to monitor protist diversity. **Singer D**

26.09.2019 OCGC Geoscience Seminars, Carleton University, Ottawa, Canada

Environmental DNA approaches to understand past, present and future ecosystems functioning. **Singer D**

03.07.2019 Mini-Symposium: Microeukaryotes as tools to shed light on environmental questions, São Paulo, Brazil

“Sphagnosphere”: A unique component of earth’s Biosphere to assess microeukaryotes diversity, ecology and biogeography. **Singer D**

20-22.02.2019 38th Annual Meeting of the German Society for Protozoology, Vienna, Austria

Contrasted effects of cadavers, blood, urine and faeces on soil micro-eukaryotic communities – implications for biodiversity exploration and forensic application. **Singer D**, Heděnc P, Jauslin R, Heger T, Szelecz I, Lara E, Duckert C, Mitchell EAD

2018

10-14.09.2018 International Symposium on Testate Amoebae (ISTA9), Belfast, Ireland

Testate amoeba taxonomy from morphology to metatranscriptomics. **Singer D**, Lara E, Mitchell EAD, Lahr DJG

27.02-02.03.2018 37th Annual Meeting of the German Society for Protozoology, Cologne, Germany

A molecular approach to microeukaryotic diversity, ecology and biogeography associated with Sphagnum mosses. **Singer D**

27.02-02.03.2018 37th Annual Meeting of the German Society for Protozoology, Cologne, Germany

Temporal patterns of soil micro-eukaryotic diversity beneath pig cadavers decomposing on the ground or suspended. **Singer D**, Seppely CVW, Szelecz, I, Lara E, Mitchell EAD

2017

30.07-04.08.2017 15th International Congress of Protistology (ICOP15), Prague, Czech Republic

Temporal patterns of soil micro-eukaryotic diversity beneath decomposing pig cadavers as assessed by high throughput sequencing. Reczuga MK, Seppely CVW, Szelecz I, Fournier B, **Singer D**, Lara E, Mulot M, Mitchell EAD.

21-24.02.2017 36th Annual Meeting of the German Society for Protozoology, Meissen, Germany

*Born in the USA: a molecular phylogeography of *Hyalosphenia papilio*.* **Singer D**, Fernandez LD, Blandenier Q, Mitchell EAD, Lara E.

2016

12-15.09.2016 International Symposium on Testate Amoebae (ISTA8), Ilhabela, Brazil

*Born in the USA: a molecular phylogeography of *Hyalosphenia papilio*.* **Singer D**, Fernandez LD, Blandenier Q, Mitchell EAD, Lara E.

23-26.02.2016 35th Annual Meeting of the German Society for Protozoology, Saignelegier, Switzerland

*Environmental diversity of cryptic species from the *Nebela collaris* complex is strongly correlated with environmental filters.* **Singer D**, Kosakyan A, Fernandez LD, Seppely CVW, Mitchell EAD, Lara E.

2015

05-10.11.2015 European Congress of Protistology (ECOP 7), Seville, Spain

*Environmental diversity of cryptic species from the *Nebela collaris* complex is strongly correlated with environmental filters.* **Singer D**, Kosakyan A, Fernandez L, Seppely CVW, Mitchell EAD, Lara E.

2014

14.11.2014 Swiss Systematics Society, Geneva, Switzerland

*Strong niche separation among species of the *Nebela collaris* complex: a tool for bioindication?* **Singer D**, Kosakyan A, Seppely CVW, Mitchell EAD, Lara E.

31.10.2014 SwissBOL Conference, Bern, Switzerland

Earthworm diversity in Switzerland: focus on potential cryptic species. **Singer D**, Luiz L, Al-Dourobi A, Lara E, Le Bayon C.

08-12.09.2014 International Symposium on Testate Amoebae (ISTA7), Poznan, Poland

*Strong niche separation among species of the *Nebela collaris* complex: a tool for bioindication?* **Singer D**, Kosakyan A, Seppely CVW, Mitchell EAD, Lara E.

15-16.04.2014 Fundamental and applied protistology, Neuchâtel, Switzerland

*Cryptic testate amoeba species occupy different niches in a peatland: the case of the *Nebela collaris* complex.* **Singer D**, Kosakyan A, Mulot M, Mitchell EAD, Lara E.

Professional references

Prof Frans Jorissen (jorissen@wanadoo.fr)

UMR CNRS 6112 LPG-BIAF, Laboratory of Planetology and Geosciences, Angers University and Nantes Université, 2 Boulevard Lavoisier, 49045 Angers, France

Prof. Jorissen was the supervisor of my third postdoctoral position. In Angers, I was responsible for overseeing the eDNA component of the FORESTA project, which was funded by The OFB (Office français de la biodiversité). I designed a comprehensive experiment to showcase the significance of the resting stage of foraminifera in estuarine habitats. Additionally, during this postdoc, I had the opportunity to mentor a PhD student, and we have successfully published three articles to date.

Prof Edward Mitchell (edward.mitchell@unine.ch)

Laboratory of Soil Biodiversity, University of Neuchâtel, Neuchâtel, Switzerland

Prof. Mitchell was the director of the laboratory where I conducted my PhD research. Immediately after completing my PhD, he appointed me to take charge of several courses during his sabbatical period. Together, we focused on studying the ecology and biogeography of protists in soil and peatland environments. Our fruitful collaboration has resulted in the publication of more than 15 articles since 2015, and we continue to maintain an active and productive working relationship.

Dr. Enrique Lara (enrique.lara@rjb.csic.es)

Real Jardín Botánico, CSIC Plaza de Murillo 2, 28014 Madrid, Spain

Dr. Lara served as my PhD supervisor, providing valuable guidance and mentorship throughout my doctoral studies. In 2013, he hired me for a project funded by the Swiss National Science Foundation (SNF). Under his supervision, I received comprehensive training in the field of molecular research techniques. Together, we delved into studying the diversity, ecology, and biogeography of protists in various environments. Our collaborative efforts have led to the publication of more than 25 articles, showcasing our contributions to the scientific community. Importantly, we continue to actively engage in ongoing projects together, furthering our shared research endeavors.

Outreach

- 11.11.2022 Protist eDNA bioinformatics pipeline from raw data to matrices! (movie) [Link](#)
- 10.11.2022 Protist eDNA concepts from sampling to sequencing (movie) [Link](#)
- 10.10.2022 Estuarine quality paradox? eDNA Come to the Rescue! (movie) [Link](#)
- 18.02.2021 Protistas y biodiversidad Microsorpresas (Article) [Link](#)
- 01.12.2020 Foraminifère, l'océan à la loupe, exposition, Angers, France (movie editing) [Link](#)
- 16.09.2019 Kultur und Politik: 3/2019 Protisten. Urwesen des Bodens (article) [Link](#)
- 20.08.2019 Molecular Ecology Spotlight: Summary from the authors (article) [Link](#)
- 10.01.2018 RTS la 1ère CQFD: Quand la chimie des sols fait de la science médico-légale (Interview) [Link](#)

Activities and Interests

- Biology Youtube Chanel in French "Osyssea gaia" ([Link](#)) in English "Protists world" ([Link](#))
- Scuba diving
- Volunteering: INSIEME, Responsible of a summer camp with persons with intellectual disabilities
- Music: Guitar/keyboard