

Dr Marco Cantonati, PhD, P.D. Prof., Tenure-track Prof. CURRICULUM VITAE accademico completo

<http://orcid.org/0000-0003-0179-3842> ResearcherID: G-4278-2018

Scopus Author Identifier: www.scopus.com/authid/detail.uri?authorId=6603213570

<https://www.webofscience.com/wos/author/record/G-4278-2018> (include ex Publons)

<https://scholar.google.com/citations?hl=en&user=jlhqARcAAAAJ> researchgate.net/profile/Marco-Cantonati

<https://mtsntn.academia.edu/MarcoCantonati> <https://www.linkedin.com/in/marco-cantonati-18b364a/>

<https://www.mendeley.com/profiles/marco-cantonati/>

<https://www.facebook.com/marco.cantonati> https://twitter.com/@freshwater_sc Skype: marco.cantonati

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BRIEF PROFILE. Dr Marco Cantonati, Top Italian Scientist (TIS) of Via-Academy and included in the list of Top 2% worldwide Scientists of the Stanford University since the first edition, is a freshwater ecologist and environmental botanist, specialized in **benthic microalgae taxonomy** and **ecology** with particular attention to **diatoms**. His main research interests include: **ecohydrogeology**, **long-term ecological research**, effects of **climate and environmental change**, **paleolimnology**. He is a tenure-track Professor at the **University of Bologna**, and was formerly Research-Group Leader (Limnology & Phycology) within the **Research & Collections Dept.** of the **MUSE**—Museo delle Scienze (Trento, Italy). He is also an Associate Researcher at ANSP PCER **Drexel University** (PA, USA). He has been coordinator / work package coordinator of **37 projects, tenders, consultancies**. He has published **134** articles in ISI international journals with IF. He is / has been **Associate Editor** / EBM of 4 international journals (*Wetlands*, *Phycologia*, *Journal of Limnology*, *Water*), *ad hoc* reviewer for 101 different journals, Guest Editor of **9 special volumes** (**STOTEN**, **ECOLIND**, *Freshwater Science*). He **discovered** and described **genera and species of algae and cyanobacteria new to science** and has been the lead editor of **one of the diatom identification texts most widely used internationally**. He holds a Central European *Habilitation (venia docendi)* in Limnology (University of Innsbruck), *Habilitations (ASN)* in Italy (Ecology and Botany) and has been Contract Professor of 'Biology of Photoautotrophic Organisms' (University of Trento).

Languages: **English** (excellent knowledge), **German** (comparable to native speaker). **Italian** (mother tongue).

Bibliometric indicators & Scores (accessed September 10th 2024)

Google Scholar Citations: Citations: **6502** (**3726** since **2019**), *h*-index: **38**, *i10*-index: **111**

WoS: **138** publications, 3372 tot. cit., *h*-ind.: **31** **Scopus:** **137** documents, 3793 tot. cit., *h*-ind.: **34**

ResearchGate: Research Interest Score = 5595 (**top 1%**), 5688 cit., **151.532** reads, **936** followers, **1129** recom.

Academia.edu: **938** fol., **22354** views (top 5%). **LinkedIn:** Network: **1147**. **Publons-WoS:** Top peer rev., **182** reviews, 32 Ed. recs.



Inquadramento scientifico-disciplinare

Settore Scientifico-Disciplinare (SSD) (dal 2024): **BIOS-01/B - Botanica sistematica** appartenente al **Gruppo Scientifico-Disciplinare (GSD)** **05/BIOS-01 - BOTANICA**
[In precedenza: BIO/02 - Botanica sistematica appartenente al settore concorsuale: 05/A1 – BOTANICA]

Abilitazione Scientifica Nazionale (ASN) (Italian University-Teaching Habilitation, tenurability certification)

- settore concorsuale **05/A1 BOTANICA** (**Plant Sciences**, including Environmental Botany, Plant Ecology, and Phycology) - **I Fascia** (at the rank of **full professor**) (dal 05/12/2017 al 05/12/2028), biennio 2016-2018 - Terzo Quadrimestre
- settore concorsuale 05/A1 BOTANICA II Fascia (at the rank of **associate professor**) (dal 03/04/2018 al 03/04/2029), biennio 2016-2018 - Quarto Quadrimestre
- settore concorsuale **05/C1 ECOLOGIA (Ecology)** - II Fascia (dal 30/03/2018 al 30/03/2029)

Titolo di Dottore di Ricerca (PhD)

1998: **PhD in Freshwater Ecology** ("Ökologie / Limnologie") at the **University of Innsbruck, Austria** (19/02/1998) with **honours** ("mit Auszeichnung bestanden") (Supervisor: Prof. Eugen Rott; Thesis: *Hydrobiology of springs of the Adamello-Brenta Nature Park -Trentino, Italy- with special reference to the algae*). *Dr Rer. Nat.* (= PhD) dichiarato equipollente al titolo di dottore di ricerca dell'ordinamento universitario italiano con **Decreto del Ministro n780 del 2/9/1998**.

Titolo di studio

A.A. 1991/92: **Laurea in Scienze Naturali, Ecologia dell'idrofita carnivora** *Utricularia vulgaris L. (Lentibulariaceae) in un ambiente laterale fluviale*, 97 pp., Università degli Studi di Pavia, 19/10/1992, 110/110 e Lode. Relatori: Prof. Cesare F. Sacchi, Dr Renato Sconfietti.

A.A. 1989/90: **Laurea in Scienze Biologiche, Ecologia dinamica dei popolamenti planctonici in un ecosistema stagnale pavese**, 174 pp., Università degli Studi di Pavia, 25/06/1990, con dicitura sul verbale di laurea: "110/110 e Lode e dignità di stampa". Relatori: Prof. Cesare F. Sacchi, Dr Renato Sconfietti.

Documentata attività di formazione o di ricerca presso qualificati istituti italiani o stranieri

Dal 14/03/2022: **RTDb BIO/02 (Tenure-track Prof) Botanica sistematica** presso il **Dipartimento di Scienze Biologiche, Geologiche e Ambientali – BiGeA dell'Alma Mater Studiorum Università di Bologna**
02/11/2000-13/03/2022: **Funzionario Conservatore a indirizzo Scientifico Responsabile** della **Sezione di Limnologia & Algologia** del **MTSN (MUSE)** dal **2013** per cambio di denominazione dell'Ente). **Responsabile** di un gruppo di ricerca di 3-7 FTE. Dal **2008** questo gruppo include un **Assistente Tecnico Specialistico di Ricerca (posizione a tempo indeterminato)**. [since 2015: **Safety Officer –Preposto ai fini della sicurezza-** for 'Limnology & Paleolimnology Lab' and "Limnological fieldwork"]. Come **Responsabile** della Sezione **Limnologia MUSE**, MC è stato **determinante** nell'acquisizione delle **risorse** che **hanno consentito a MTSN-MUSE di dotarsi** del **microscopio elettronico a scansione (SEM)** e di una **Stazione Limnologica al Lago di Tovel nel Parco Naturale Adamello-Brenta**.

since 1995: **Assistente di Laboratorio Scientifico** (con compiti di ricerca) presso il **Museo Tridentino di Scienze Naturali (MTSN)**.

November 2017 – present: Research Associate, Academy of Natural Sciences of Drexel University, PCER.
Sept 2016 – Apr 2017: Research Scientist (Diatom ecology and taxonomy), Academy of Natural Sciences

of **Drexel University**, Patrick Center for Environmental Research - PCER, Phycology Section, Philadelphia PA, USA. [unpaid leave from the MUSE in Trento]

2014: **Adjunct Associate Professor of Biology of Photoautotrophic Organisms University of Trento**.

2011: **Habilitation (venia docendi)** in **Limnology (Phycology)** at the **University of Innsbruck** (Austria). Title: 'Spring Habitats of the Alps: Biodiversity Hotspots and Sentinels of Environmental Change'.

2010-2012: **Research Associate ISE (Institute for Ecosystem Study)** of the **Italian Research Council (CNR)**, research module: "Ecosystem structures, biotic and abiotic interactions, and biodiversity in freshwater environments" (*Prov. Assoc. N. 09/45, N. 0002109, 09/11/2009*).

1998: **PhD** at the **University of Innsbruck, Austria**. During Ph.D. studies (1993-1994) MC voluntarily attended 8 courses passing all exams with the highest marks.

1992: **MSc in Natural Sciences**. In the same period, hydrobiological investigations in the frame of an environmental impact study commissioned to the Univ. Pavia by the AGIP Oil Refinery of Sannazzaro de' Burgondi (PV).

1990-1991: Position as Tutor at the Ghislieri College, and enrolment at the Faculty of Natural Sciences.

1990: **MSc in Biology University of Pavia** (June 25th 1990).

1986: After attending a scientific high school, position as **Alumnus** -won by public selection- at the **Ghislieri College, Pavia** [Alcuni **Alunni illustri** nelle scienze naturali: Sandro **Pignatti** (botanico, ecologo vegetale), Cesare F. Sacchi (zoologo, prima cattedra di Ecologia in Italia), Agostino Bassi (botanico, pioniere della moderna batteriologia), Vittorio Erspamer (scopritore della serotonina), Luigi Luca Cavalli-Sforza (genetista delle popolazioni umane)].

Research visits abroad: • Sept 2016 – Apr 2017: Academy of Natural Sciences of **Drexel University**, Patrick Center for Environmental Research - PCER, Phycology Section, **Philadelphia PA, USA**. • Palacký University Olomouc, Lab. Prof. A. Pouličková (2014), **Czech Rep.** • Universities of **Brno** and **Olomouc** (2010). • 28/05/2008 - 02/06/2008 & 22/10/2008 - 27/10/2008: labs. of Prof. J. **Komárek** (Botany Inst. AS CR & University of South Bohemia), research visits on the ecology and taxonomy of spring cyanobacteria. • 13/02/2000 - 04/03/2000: lab. of Dr. Eileen **Cox**, Botany Dept. of The **Natural History Museum, London** (funded by Bioresource-LSF EC Programme). • January 1996: lab. of Prof. Horst **Lange-Bertalot** (University of Frankfurt, **Germany**). • 1993-1994: Botany Institute of the University of **Innsbruck (Austria)**. • Summer 1989: Zoology Dep. of the University of **Cambridge (UK)**, Dr. L.E. Friday, ecophysiology of *Utricularia vulgaris* L. in the Nature Preserve of Wicken Fen).

Valutazione della Ricerca di Ateneo (VRA)

VRA 2024: - Indicatori: Numero articoli ultimi 5 anni: 44 (soglia: 10), Numero citazioni ultimi 10 anni: 1288 (soglia: 151), *h-index* ultimi 10 anni: 19 (soglia: 6); - a tutti e tre i prodotti (articoli in rivista) selezionati è stato attribuito il punteggio massimo (1).

Main courses attended (15): **1)** 1995: **Restoration of freshwater ecosystems** (European Environmental Research Organisation Training Centre, Silkeborg - Denmark). **2)** 1994: **Ecological physiology of algae** (Prof. Susan **Kilham**, Drexel University, Philadelphia, PA, USA). **3)** 2007-2015 (MTSN/MUSE Trento): 12 one-week periods of joint research work with Prof. Horst Lange-Bertalot on the **taxonomy and ecology of diatoms**. **4)** 1993-94: **Running waters ecology** (Prof. E. Rott, Univ. Innsbruck). **5)** 1990: **Assessing running-water quality using macroinvertebrates**. Istituto Agrario S. Michele all'Adige (TN). **6)** 1993-94: **Taxonomy and ecology of the periphyton** (Prof. E. Rott, Univ. Innsbruck). **7)** 2005: **Freshwater Algae**, Field Studies Council, Kindrogan Field Centre, Scotland. **8)** 1994: **Taxonomy and ecology of water mites** (Dr Reinhard Gerecke). **9)** 2012: **R** for environmental statistical analyses (SFS Congress, Louisville, KY, USA). **10)** 2017: **TEC-VARIETY instructional design** & Education20/20 Meets Education 3.0: **Visions for Our Changing Learning World!** - Curtis Bonk (organized by Drexel University Online Learning Council, Philadelphia, PA, USA). **11)** 2018-2019: **Corso organizzato da UIL FPL per Funzionari di Enti Pubblici** (nozioni di diritto amministrativo, normativa sulla privacy e su anticorruzione e trasparenza, diritto di accesso, contabilità pubblica ecc.). **12)** 2014: Tools and Techniques for Giving **Compelling Talks** - Dennis Meredith (JASM Congress, Portland, OR, USA). **13)** 2020: **Public speaking** per il management - Loredana Pancheri (tsm - Trentino School of Management). **14)** 2005: Introduction to the use of the LEO EVO 40XVP **S.E.M.** (Assing S.p.a.). **15)** 1990-91: **Conservation and management of Vertebrates in the River Po floodplain**. Animal Biology Dept, Univ. Pavia.

Organizzazione, direzione e coordinamento di gruppi di ricerca nazionali e internazionali, o partecipazione agli stessi

R&D Funding acquisition: Scientific coordinator or WP / task coordinator of **37 Projects /**

international tenders / consultancies. Total budget managed (>2 Millions EURO). 15 main ones:

15) **CARG - foglio idrogeologico alla scala 1:50.000 n° 218 denominato "Castelnovo ne' Monti", Caratterizzazione ecologica dei Groundwater Dependent Ecosystems** (Ente finanziatore: ISPRA), 2025-2028. 14) **HELENA (parte diatomee) Habitat estremi di laghi vulcanici per l'esplorazione astrobiologica** (Ente finanziatore: Agenzia Spaziale Italiana – ASI, coordinatore: B. Cavalazzi UniBO, 2024-2025). 13) **Documentazione degli impatti di variazioni di livello per la produzione di neve artificiale tramite confronti (monitoraggio di medio corso di laghi d'alta quota in zona PNAB) e paleolimnologia** [Ente finanziatore: APPA-PAT via BioMonitoring Team - BMT), (2017-2021)2024-2025(2024,2026,2028)]. 12) **Analisi interdisciplinare per buone pratiche su sorgenti e zone umide nel clima che cambia** (Ente finanziatore: RER), 2023-2025. 11) International competitive projects and tenders for the study of the **Diatoms from Mediterranean Streams of the Island of Cyprus** (WFD diatom biological quality-element monitoring: **Cyprus streams' diatoms WFD I, II, III, IV (2012-2013** Tender Procedure No: TAY 10/2012, **2018-2019** No: TAY 15/2017, **2020-2022** No: TAY 19/2019, **2023-2025** No: TAY 36/2022; Project funded by the Government of Cyprus - Water Development Department, EU). 10) **Analisi di diatomee in campioni di torba nella ZSC e Riserva naturale provinciale "Torbiere di Fiavé" – CIG Z533C309B5** (Ente finanziatore: PAT), 2023-2024. 9) **Diatoms from springs of the two Bavarian National Parks** (DiSpri-BNP); **2018-2019, 2022-2024**, promoted by the Ministry of the Environment of Bavaria (Germany). 8) **Eurostars Project WAT-DIMON 'Morphotaxonomic and metabarcoding investigation of diatoms in Cyprus' (WP3)** (Project funded by the European Union; 2021). 7) **Diatom-based assessments of lotic systems in the USA** (in particular **streams in Puerto Rico**) (Project funded by the **National Ecological Observatory Network – NEON**; US-EPA etc. (2016-2017: during my period at the Phycology Section of the Academy of Natural Sciences of Drexel University, Philadelphia, PA, USA). 6) **Exploring the biodiversity of Emilia-Romagna's springs – EBERS** (Ente finanziatore: Regione Emilia Romagna - RER), 2011-2013. 5) **ACE-SAP (Alpine Ecosystems in a Changing Environment: Biodiversity, Sensitivity and Adaptive Potential)** (funded by the PAT University and Scientific Research Dept.; 2008-2011). Coordinator of Work Package 2 on the rhodophyte *Bangia atropurpurea* in Activity 2 **Adaptation - Aquatic Environments**. Scientific co-ordinator of the overall Project: Prof. David B. Neal. Univ. of California Davis, USA. 6) **Potential ecological effects of water withdrawal from a high-mountain lake (Lake Ritorto) for artificial-snow production** (Project funded by the Government of the Autonomous Province of Trento PAT – Environmental-Impact Evaluation Dept; 2012). 4) **CRENODAT** (Biodiversity assessment and integrity evaluation of **springs** of Trentino (Italian Alps) and long-term ecological research) (funded by the University and Scientific Research Dept. of the Autonomous Province of Trento-PAT; 2004-2007). Scientific Coordinator of the overall Project. 3) **OLOAMBIENT (Environmental and ecosystem responses to Holocene climate variability in Trentino based on multi proxy-data from lacustrine environments, calcareous tufa and moonmilk)** (funded by the PAT University and Scientific Research Dept.; 2002-2005). Co-ordinator of WP 2 (*Monitoring*) and 3 (*Microfossils and pollen*). Scientific co-ordinator of the overall Project: Prof. Silvia Frisia (Trentino Nature & Science Museum, now at The Univ. of Newcastle, Australia). 2) **SALTO/BEST (Blooms and Environment: Science for Lake Tovel)** (funded by the PAT University and Scientific Research Dept.; 2001-2004). Coordinator of WP 2 (*Paleolimnology*) and 6 (*Ecophysiology of dinoflagellates*). 1) **Life Tovel** (LIFE00 ENV/IT/000132 *Tovel - a concerted model of sustainable tourism development*; 2001-2004), promoted by the Municipality of Tuenno, in collaboration with the Adamello–Brenta Nature Park, and the Trentino Nature & Science Museum. In charge for WP 5 *Development of educational and scientific initiatives for Schools and Universities*.

Concorsi interni BiGeA-UniBO per assegnazione di fondi per attrezzature: 2024: MC ha formato un gruppo di ricerca risultato vincitore di un **co-finanziamento per acquisto di sonde e logger per misure di CO₂, temperatura e livello in ambienti acquatici**.

Dal 02/11/2000: **Funzionario Conservatore a indirizzo Scientifico Responsabile della Sezione di Limnologia & Algologia del MTSN (MUSE dal 2013 per cambio di denominazione dell'Ente). Responsabile di un gruppo di ricerca di 3-7 FTE.** Dal 2008 questo gruppo include un Assistente Tecnico Specialistico di Ricerca (posizione a tempo indeterminato).

Sono riconosciuto come uno dei **massimi esperti a livello internazionale di sorgenti come ecosistemi**. Negli anni ho strutturato un **gruppo internazionale di esperti sull'argomento**, i cui rappresentanti di maggior

spicco sono: Cantonati M., Stevens L.E., Fensham R.J., Glazier D.S., Muotka T., Tockner K., Knight R.L., Springer A.E., Goldscheider N., Gargini A., Segadelli S., Gerecke R., Death G., Richardson J.S., Wehr J.D. Con questo gruppo si lavora sull'argomento dell'ecologia e della conservazione degli ecosistemi di sorgente realizzando pubblicazioni (compresi volumi speciali su riviste internazionali) e proposte di progetto congiunte, scambi di ricercatori e networking tra laboratori etc.

Membro, dalla fondazione (2023), della **Fellowship of the Spring (FoS)** creata da Rod Fensham per favorire ricerche e iniziative scientifiche sulle sorgenti di ambienti aridi e sulle oasi (già 35 membri da 19 paesi), con particolare attenzione al sostegno a ricercatori di paesi con instabilità politica ed economica.

Membro, dalla fondazione (2023) di **Oases of the World: Status, Values, Futures**, iniziativa sulle oasi di UNESCO Cairo e Senckenberg.

Dal 30/07/2017: **Research Associate Academy of Natural Sciences of Drexel University, Patrick Center for Environmental Research - PCER, Philadelphia PA, USA**. Il titolo di 'Research Associate' conferisce un opportuno inquadramento formale per la continuazione e pubblicazione di numerose ricerche che sto svolgendo con ricercatori e un co-op student presso l'Accademia di Scienze Naturali della Drexel University.

International Visiting Scholars (7)

7. Larry **Stevens**. 2023 (novembre-dicembre). MC è risultato vincitore in un bando per una *Visiting Fellowship* dell'Institute of Advanced Studies (ISA) of the University of Bologna che ha consentito di ospitare al BiGeA il Prof. Larry Stevens, Direttore dello *Springs Stewardship Institute* (AZ, USA).

6. Kalina **Manoylov**. 2023 (May 22nd - June 1st). Prof. K. Manoylov, Georgia College and State University, scientific visit in MC's lab at the BiGeA of the University of Bologna (UniBO) to finalize harmonization of databases (diatoms in Mediterranean streams) for publication of joint articles.

5. Rosalina **Stancheva**. 2023 (May 22nd – 26th). Prof. R. Stancheva, George Mason University, Fairfax, Virginia, scientific visit in MC's lab at the Department of Biological, Geological and Environmental Sciences (BiGeA) of the Alma Mater Studiorum - University of Bologna (UniBO) to finalize harmonization of databases (diatoms in Mediterranean streams) for publication of joint articles.

Other Visiting Scholars. Researchers and students for short periods: 4. Prof. Michal **Hájek** & Prof. Michal **Horsák**, 2023, Masaryk University, Czech Republic. 3. Dr Łukasz **Peszek** & Dr Mateusz **Rybak**, 2023, University of Rzeszów, Poland. 2. Andrew **Lewis**, 2024, University of Hawai'i at Mānoa, USA (PhD student). 1. María **Cid-Rodríguez**, 2024, University of Vigo, Spain (PhD student).

Post-Docs (5)

5. Flavia **Tromboni**. **2023-2025** (maggio-settembre + altri quattro mesi). Secondment of a *Marie Curie Postdoctoral Fellowship* of F. Tromboni, già Research Professor alla University of Nevada, Reno, attualmente alla Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau. "Effects of extreme flow changes on periphyton biofilm and carbon cycling in streams of the Alps (PeriCarb)".

4. Panayiota **Pissaridou**. Post-doc project of the Cyprus University of Technology 'Metabarcoding and morphotaxonomic investigation of selected diatom species from Cyprus streams' (Project funded by Cyprus University of Technology; 2021). Member of the Advisory committee (AC).

3. Abdullah A. **Saber**. 2019. Phycological Biodiversity in Oases in the Western Desert of Egypt (PhyBio). Post-Doc funded by the Italian *Ministry of Foreign Affairs and International Cooperation* (MAECI, January-June). Supervision in collaboration with Prof. G. Guella, University of Trento, Bioorganic Chemistry Lab.

2. Daniel **Spitale**. 2008-2010. ACE-SAP (Alpine ecosystems in a changing environment: biodiversity sensitivity and adaptive potential) Work Package 2 on the rhodophyte *Bangia atropurpurea* in Activity 2 "Adaptation - Aquatic Environments".

1. Manel **Leira**. 2006-2007. Water-level changes in Alpine lakes (NE Italy), and their reflection in the diatom sediment record. Funded by a grant of the Human Resources program of the Galician Research, Development and Technological Innovation Plan (*Xunta de Galicia*).

Referee—Assessor - for funding Agencies (Panel Member for 2 national Ag.) & LTER: Italian Ministry of Education, Universities and Research - MIUR ([REPRISE https://reprise.cineca.it/en](https://reprise.cineca.it/en)); **Belmont Forum** (international group of funding agencies focusing on environmental change research) - Freshwater Security theme; The **Research Council of Norway**; **National Geographic Society**; Icelandic Research Fund – IRF; Grant Agency of the Academy of Science of the **Czech Republic-GACR**; **Marie Curie Individual Fellowships** (European Commission); **Polish National Science Centre**; **Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding** (2011-present) - National Research Council-CNCS; Austrian Science Fund - FWF; Kazakhstan National Centre of Science and Technology Evaluation (NCSTE); Hungarian Scientific Research Fund – OTKA (2010-present); Research Council of Lithuania (RCL). Referee of an Italian Long Term Ecological Research (**LTER**) site. Progetti di ricerca, Dipartimento di Scienze della Vita, Università di Trieste.

Direzione o partecipazione a comitati editoriali di riviste, collane editoriali, enciclopedie e trattati di riconosciuto prestigio

Editorial activities (featured on **publons Clarivate**). **Guest Editor for international journals (9):** •

Ecological Indicators (2019-2020), • **Science of the Total Environment** (2015-2016, 2022-2024), • **Freshwater Science** (formerly *J. North Am. Bent. Soc.*) (2010-2012 & 2013-2014), • **Hydrobiologia** (2007-2008), • **Inland Waters** (2018-2020), • **Journal of Limnology** (2010-2011), • **Water** (2017-2020), • **Fottea** (2015-2016).

Associate Editor (2) of the journals: **Wetlands** (2017-20xx), **Phycologia** (2018-2023).

Member of the Editorial Board (4): **Journal of Limnology** (2011-20xx), **Water** (2017-20xx), **Egyptian Journal of Phycology** (2024-20xx), **Biologia Ambientale** (journal of the Italian Society of Environmental Biology-CISBA, a reference for the Italian EPAs; 2018-20xx).

Past memberships: *Int. J. Biodiversity* (2012-2018), *J. Global Ecol. & Env.* (stepped down Jan 2017).

Book-series Editor (together with Prof. Zlatko Levkov): **Diatoms of Europe** (Koeltz).

Ad hoc Reviewer for the main freshwater-science and phycology journals (ad hoc reviewer for **101 different journals!**): AQUATIC & ENVIRONMENTAL SCIENCES: • *Freshwater Science*, • *Limnology and Oceanography*, • *Inland Waters*, • *Journal of Limnology*, • *Science of the Total Environment*, • *Ecological Indicators*, • *Journal of Ecology*, • *Scientific Reports*, • *Ecology and Evolution*, • *Wetlands*, • *Water Research*, • *Biodiversity and Conservation*, • *Journal of Biogeography*, • *Diversity and Distributions*, • *Conservation Biology*, • *Environmental Pollution*, • *Water*, • *Journal of Paleolimnology*, • *Boreas*, • *Ecohydrology*, • *Hydrobiologia*, • *Groundwater for Sustainable Development*, • *Environmental Earth Sciences*, • *Journal of Hydrology*, • *Ecohydrology & Hydrobiology*, • *Global Change Biology*, • *Ecosphere*, • *PLOS ONE*, • *Canadian Journal of Fisheries and Aquatic Sciences*, • *Hydrological Processes*, • *Freshwater Biology*, • *Aquatic Microbial Ecology*, • *Aquatic Ecology*, • *Marine & Freshwater Research*, • *Aquatic Sciences*, • *Journal of Environmental Management*, • *Environmental Science and Pollution Research*, • *Peer J*, • *Diversity*, • *Chemistry and Ecology*, • *Frontiers in Environmental Science*, • *Fundamental and Applied Limnology-Archiv für Hydrobiologie*, • *Acta Oecologica*, • *Limnologica*, • *WIREs Water*, • *Water Air and Soil Pollution*, • *International Journal of Environmental Research and Public Health*, • *Ecological Engineering*, • *Environmental Monitoring and Assessment*, • *Environmental Management*, • *Polar Research*, • *Polar Biology*, • *Knowledge and Management of Aquatic Ecosystems*, • *CATENA*, • *Land*, • *Atmosphere*, • *Applied Sciences*, • *Mires and Peat*, • *Journal of Freshwater Ecology*, • *Water Biology and Security*, • *African Journal of Aquatic Science*, • *Oceanological and Hydrobiological Studies*; PLANT SCIENCES, PHYCOLOGY & TAXONOMY: • *Journal of Vegetation Science*, • *Frontiers in Plant Science*, • *Journal of Phycology*, • *Algal Research*, • *European Journal of Phycology*, • *Journal of Applied Phycology*, • *iScience*, • *Plants*, • *Aquatic Botany*, • *Applied Phycology*, • *Plant Biosystems*, • *Plant Ecology and Evolution*, • *Fottea*, • *Systematics and Biodiversity*, • *Cryptogamy-Algology*, • *Diatom Research*, • *Botanical Studies*, • *Algae*, • *Phytotaxa*, • *Protoplasma*, • *European Journal of Taxonomy*, • *Botany Letters*, • *Journal of Bryology*, • *Algological Studies*, • *Nova Hedwigia*, • *Proceedings of the Academy of Natural Sciences of Philadelphia*; Others: • *Southeastern Naturalist*, • *Polish Journal of Environmental Studies*, • *Polish Botanical Journal*, • *eco.mont*, • *Acta Botanica Croatica*, • *Lauterbornia*, • *International Journal of Water Resources and Environmental Engineering*, • *Berichte des Naturwissenschaftlich-Medizinischen Vereins in Innsbruck*, • *Notiziario della Società Botanica Italiana*, • *Studi Trentini di Scienze Naturali*, • *Gortania*, • *Biologia Ambientale*, • *Kuwait Journal of Science and Engineering*.

Contributi a enciclopedie e trattati di riconosciuto prestigio: • *Encyclopedia of Inland Waters*, • *Imperiled: The Encyclopedia of Conservation*.

BOOKS, MONOGRAPHS & BOOK SERIES: *Diatom Monographs, Iconographia Diatomologica, Lake Kinneret: Ecology and Management* - Springer 2013, Pouličková et al. eds 2005 Ecology and palaeoecology of spring fens of the West Carpathians Palacký University, Olomouc.

REVIEWER of BOOK PROPOSALS: Wiley.

ONLINE WEBSITES & RESOURCES: Diatoms of North America (DONA; <https://diatoms.org/>).

Conseguimento di premi e riconoscimenti nazionali e internazionali per attività di ricerca

Scientific awards: Included in: • the list of **Top Italian Scientists (TIS)** of Via-Academy May 27th 2020 [<http://www.topitalianscientists.org/home>] and • the list of **Top 2% worldwide Scientists** of the **Stanford University** since the first edition (Oct 16th 2020, and regularly confirmed in the yearly data-updates) [*PLoS Biol* **18**(10): e3000918]. • **Central European University Teaching Habilitation:** evaluates excellence both in scientific production and in University teaching. 2011: *Habilitation (venia docendi)* in Limnology (Phycology) at the University of Innsbruck (Austria). • 2017-ongoing: **Research Associate ANSP Drexel University** • 2010-2012: **Research Associate ISE-CNR** (Institute for Ecosystem Study) of the Italian Research Council, research module: "Ecosystem structures, biotic and abiotic interactions, and biodiversity in freshwater environments" (Prov. Assoc. N. 09/45, N. 0002109, 09/11/2009). • **Targa Premio da parte del Presidente della Repubblica** al **Congresso SIL** (Società Internazionale di Limnologia) **2016** svoltosi a Torino: MC Membro del Comitato Organizzatore e Scientifico Nazionale del Congresso. • **President of the Jury of the public competition Junge Forscher gesucht / Giovani ricercatori cercansi** (EUREGIO, EURAC, Unilbk, Grisons CH, PAT, MUSE) (2020). • Positions as **Alumnus** -won by public selection- and **Tutor** at the **Ghislieri College** (Pavia); most well-known Alumnus in the biological disciplines: Luigi Luca Cavalli-Sforza, 1922; most well-known Alumnus from the Autonomous Province of Trento: Vittorio Erspamer, 1909-1999. • **«Garbini» Prize for limnological research** 1992 (Feb. 22nd 1994). • **Publons Peer Review Awards 2017: Top 1 per cent reviewers in Agricultural and Biological Sciences; Publons awards 2016: Top 10 per cent reviewers for Sentinels of Science: Environmental Science.** • **Università di Pavia**, Facoltà di Scienze Matematiche Fisiche e Naturali - Inserimento quale **"Cultore della Materia"** nelle Commissioni d'Esame di Ecologia e di Idrobiologia e piscicoltura (1993-1994). • Grants from the Ghislieri College, AGIP, Austrian Ministry for Scientific Research, Italian Ministry for Foreign Affairs, and the Tyrol Region. • **"Dichiarata dignità di stampa"** (highly-worth to be published), in addition to honours for the Biology MSc at the University of Pavia (June 25th 1990). • **PSA travel fellowship (1000 \$)** to organize a scientific session at **JASM2022** in Grand Rapids (MI) and contribute the introductory talk to the Session. • 2017: **Golden eagle – Meritorious Member** of the Society of Trentino Mountaineers (**SAT**) of the Italian Alpine Club (**CAI**). **Main positions for which he was found to be "qualified" by international Committees** ["idoneità" / ranked among the finalists]: • Identified by Perrett Laver, leading international executive search firm, on behalf of the Natural History Museum of London, as one of the international renowned scholars suitable for the position of Director of Research and Executive Committee member. • Idoneità (secondo classificato): concorso per professore di I fascia in Botanica sistematica (BIO/02 s.c. 05/A1, D.R. N. 948 del 19/07/2023), Università di Bologna. • Idoneità (secondo classificato): concorso per professore di I fascia in Botanica sistematica (BIO/02 s.c. 05/A1, D.R. N. 803 del 04/05/2023), Università di Pisa. • Idoneità (secondo classificato): concorso per professore di I fascia in Ecologia Vegetale (BIO/03 s.c. 05/A1, D.R. N. 834 del 13/05/2019), Università di Bologna. • SUPSI, Svizzera Italiana, Concorso per Professore di Ecologia Acquatica Applicata (secondo classificato). • Idoneità: concorso per professore di II fascia in Ecologia (BIO/07 s.c. 05/C1, D.R. N. 174 del 22/03/2018), Università di Trento. • Idoneità: concorso per professore di II fascia in Ecologia (BIO/07 s.c. 05/C1, D.R. N. 658 del 19/02/2019), Università di Torino. • Idoneità (secondo classificato): concorso per professore di II fascia in Ecologia vegetale (BIO/03 s.c. 05/A1, D.R. N. 658 del 19/02/2019), Università di Torino. • Idoneità (secondo classificato): concorso per professore di II fascia in Ecologia Vegetale (BIO/03 s.c. 05A1, D.R. N. 74 del 05/04/2019), Università di Camerino. • Idoneità (secondo classificato): concorso per professore di I fascia in Botanica sistematica (BIO/02 s.c. 05/A1, D.R. N. 53509 del 22/05/2020), Università di Pavia. • Deputy Director International Cooperation (Biology Centrum – BC) & Research Group Leader (Institute of Hydrobiology - IHB) of the Czech Academy of Sciences (CAS) & Adjunct Professor at the University of South Bohemia – Faculty of Science in České

Budějovice (Czech Republic). • Professor II of Freshwater Ecology (2013-2014, Norwegian University of Life Sciences - UMB, Department of Ecology and Natural Resource Management – INA, Ås, Norway). • Associate Professor / Professor in Ecology and Natural Resource Management (2012, Norwegian University of Life Sciences - UMB, Department of Ecology and Natural Resource Management – INA, Ås, Norway). • Doherty Chair in Freshwater Science and Professor (2012, University of Mississippi – UM, “Ole Miss”, Department of Biology, Oxford, MS, USA). • Associate Professor in Limnology (2011, Norwegian University of Life Sciences - UMB, Department of Plant and Environmental Sciences – IPM, Ås, Norway).

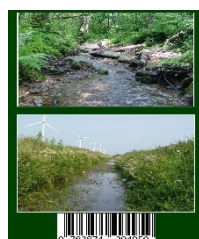
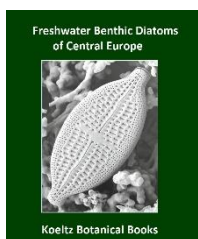
Participation to Scientific Societies (10): • **International Society of Limnology (SIL)** (nominee for the position of General Secretary in 2022), • **Society for Freshwater Science (SFS, formerly N.A.B.S.)** (since 2012 Member of the International Coordination Committee), • **International Society Diatom Research (ISDR)** (elected to the Society Council for 6 yr in 2022; Member of the Working groups: Aims of the ISDR, Diatom Collections), • **Ecological Society of America (ESA)**, • **Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area (OPTIMA)**, • International Association of Hydrogeologists (IAH), • European Geosciences Union (EGU), • **International Phycological Society (IPS)** (elected to the Executive Council 2023-2025), • Assoc. Sc. Limnology & Oceanogr. (formerly Am. Soc. Limnol. Oceanogr., ASLO), • Phycol. Soc. America (PSA), • Society of Wetland Scientists (SWS), • Ecological Society of Italy (SIte), • Italian Association of Scientific Museums (ANMS).



Eponymy: Several taxa dedicated to MC by Colleagues in recognition of his freshwater-science studies: - **diatoms** (4): *Navicula cantonatii* Lange-Bertalot (*Diatoms of Europe* 2, 2001), *Cymbella cantonatii* Lange-Bertalot (*Diatoms of Europe* 3, 2002), *Eunotia cantonatii* Lange-Bertalot et Tagliaventi (*Diatoms of Europe* 6, 2011); *Diploneis cantonatii* Lange-Bertalot, Fuhrmann et Werum (*Diatoms of Europe* 9, 2020); - **water mite** (1): *Feltria cantonatii* Gerecke (*Stuttgarter Beiträge zur Naturkunde A*, 2012).

Taxonomic achievements:

- **Lead Editor & Author** of one of the **most widely used diatom identification books:**



Lange-Bertalot H., Hofmann G., Werum M. & **Cantonati M.** 2017. *Freshwater Benthic Diatoms of Central Europe: Over 800 Common Species Used in Ecological Assessment*. M. **Cantonati**, M.G. Kelly & H. Lange-Bertalot (Eds.): 942 pp. Koeltz Botanical Books (ISBN 978-3-946583-06-6). English edition with updated taxonomy and added species of: Hofmann G., Werum M. & Lange-Bertalot H. 2013. *Diatomeen im Süßwasser-Benthos von Mitteleuropa. Bestimmungsflora Kieselalgen für die ökologische Praxis. Über 700 der häufigsten Arten und ihre Ökologie*. Lange-Bertalot, H. (Ed.): 908 pp. 2. korrigierte Aufl. Koeltz Botanical Books.

- **Book-series Editor** (together with Prof. Zlatko Levkov): *Diatoms of Europe* (Koeltz).

- MC included in the **International Plant Names Index (IPNI)**: Standard

Form: “**Cantonati**”; IPNI Identifier urn:lsid:ipni.org:authors:20021132-2

- MC included in **lists of European taxonomists**: 1. **Protists**, 2. **Cyanobacteria**.

New taxa described

Diatoms (3 genera, 30 species):

gen. nov.:

Rhoicosphenula Lange-Bertalot, Kociolek, A.A. Saber et Cantonati 2021

Neidiomorpha Lange-Bertalot et Cantonati 2010

Microfissurata Lange-Bertalot, Cantonati et Van de Vijver 2009

sp. nov.:

Navicula aquaesuavis Lange-Bert., Levkov, Cid-Rodríguez, A.A. Saber et Cantonati 2024

Navicula lomatensis Lange-Bert. et Cantonati 2024

Mastogloia cyprica Lange-Bert. et Cantonati 2024

Eunotia crassiminator Lange-Bertalot et Cantonati 2021

Planothidium angustilanceolatum Lange-Bertalot et Cantonati 2021

Delicatophycus crassiminutus Lange-Bertalot et Cantonati 2021
Brachysira chiaruccii Cantonati, Lange-Bertalot, E. Arnaud, M. Galbiati et É. Soróczy-Pintér 2021
Gomphosphenia patrickiana Cantonati, Lange-Bertalot, Kociolek et A.A. Saber 2021
Seminavis aegyptiaca A.A. Saber, El-Belely, El-Refaey, El-Gamal, Blanco et Cantonati 2020
Fragilaria tridentina Cantonati et Lange-Bertalot 2019
Fragilaria vaucheriaeraetica Cantonati et Lange-Bertalot 2019
Fragilaria spinaspeciosa Lange-Bertalot et Cantonati 2019
Adlafia neoniana Cantonati 2019
Halamphora poianensis Cantonati, Levkov et Lange-Bertalot 2019
Amphora eileencoxiae Cantonati, Levkov et Lange-Bertalot 2019
Ulnaria acuscypricus Lange-Bertalot et Cantonati 2018
Sellaphora saprotolerans Lange-Bertalot, Hofmann et Cantonati 2017
Navicula veronensis Lange-Bertalot et Cantonati 2016
Odontidium neomaximum Jüttner, D.M. Williams, Levkov, Falasco, Battegazzore, Cantonati, Van de Vijver, Angele et Ector 2015
Odontidium neolongissimum Jüttner, D.M. Williams, Levkov, Falasco, Battegazzore, Cantonati, Van de Vijver, Angele et Ector 2015
Naviculadicta langebertalotii Cantonati et Leira 2012
Eunotia insubrica Lange-Bertalot et Cantonati 2011
Eunotia cisalpina Lange-Bertalot et Cantonati 2011
Eunotia fallacoides Lange-Bertalot et Cantonati 2011
Eunotia glacialispinosa Lange-Bertalot et Cantonati 2010
Encyonema sublangebertalotii Lange-Bertalot et Cantonati 2010
Cymbella tridentina Lange-Bertalot, Cantonati et Scalfi 2010
Microfissurata paludosa Cantonati et Lange-Bertalot 2009 [generitype species]
Geissleria gereckeii Cantonati et Lange-Bertalot 2009
Achnantheidium dolomiticum Cantonati et Lange-Bertalot 2006
 numerous comb. nov.
Cyanoprokaryotes (1 species):
Geitleribactron purpureum Cantonati et Komárek 2014
Green algae (1 genus, 3 species):
 gen. nov.:
Pharao Saber, Fučíková, McManus, Guella et Cantonati 2018 [Radiococcaceae, Chlorophyceae]
 sp. nov.:
Valeriella persica Salehipour-Bavarsad, Riahi, Shariatmadari, Heidari, Cantonati, Nikulin et A.A. Saber 2023
Pharao desertorum Saber, Fučíková, McManus, Guella et Cantonati 2018
Euastrum elfarafraense Saber, F.A.C. Kouwets, E.Y. Haworth et Cantonati 2018 [desmid]



Collezioni algologiche MUSE recenti e storiche, microalghe diatomee e macroalghe, al centro l'olotipo della nuova specie di diatomea *Achnantheidium dolomiticum* Cantonati et Lange-Bertalot.

Collezioni, museografia e museologia:

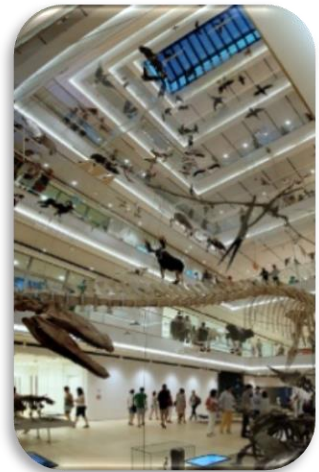
- Nel 2023 ha avviato una **collezione di diatomee** ("Collezione Cantonati") presso il **Dipartimento di Scienze Biologiche, Geologiche ed Ambientali** (BiGeA) dell'Alma Mater Studiorum Università di Bologna.



- Per 20 anni **Funzionario Conservatore a indirizzo scientifico, Responsabile** della **Sezione di Limnologia e di Algologia** e delle **Collezioni Algologiche MTSN/MUSE**.



- **Established a rapidly growing algae collection** centered on oligotrophic habitats of Alps but then expanded to streams of the Island of Cyprus and springs and wells in the Oases of the Western Desert of Egypt. This recent collection (1995 onwards, **5000 items**, mainly **diatom mounts**) was joined with a **legacy of historical algological materials** (about 1500 items, mainly *exsiccata*). MC deposited **8 holotypes** (7 diatoms, including 1 **generitype** species, & 1 cyanobacterium) and numerous **isotypes** in the algological collection of the Museum.
- Identification and consultancy on algae samples sent by colleagues or interested persons.
- In



charge (1995- 2002) for the **development of softwares for collection cataloguing** (in particular representing MTSN in the Mouseia© Commission of the Autonomous Province of Trento).

- Contributions to the exhibitions of the **new Trentino Science Museum -MUSE**, that is hosted a **Renzo Piano building**; topics: general & regional limnology, freshwater biology, benthic algae (grand opening event: July 27th 2013).
- New (2009) **exhibition halls** for the *Natural History Museum of Trento (MTSN)*; topics: main adaptations in high elevation aquatic environments, microscopic world, biodiversity of diatoms.
- Contributions to **temporary exhibitions**: *AlgArt* (2015), *Antarctica* (2005), *The Deluge* (1999-2000), *The Museum investigates the Alps* (1996).
- "Villino Campi" (Lake Garda Museum).
- **Preparation techniques of phycological materials.**



Attività di relatore a congressi e convegni nazionali e internazionali

International invited talks: (6+5+2):

- **invited talks at scientific congresses (8):**

8. *Healthy freshwaters for healthy people*. Invited plenary lecture. 9th International Conference "Human-Nutrition-Environment", University of Rzeszow, Poland, 8-9 November 2023.

7. *Ecology, conservation, and taxonomy of diatoms in Mediterranean streams and springs in the face of climate change*. Invited keynote speaker. Symposium 4: Taxonomy, ecology and conservation of Mediterranean marine and freshwater algae. XVII OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area), Palermo-Erice (Italy) 20-23 September 2023.

6. *From springs of the Alps to oases*. Invited keynote contributor to the Workshop *Oases of the World: Status, Values, Futures*. Joint UNESCO Cairo and Senckenberg Workshop. 31st Aug-1st Sep 2023, Frankfurt, Germany.

5. *Three decades of research on springs and trending topics in springs' science*. Invited keynote contributor to the *Spring Ecosystems Workshop - Mediterranean spring ecosystems: hotspots of biodiversity threatened by global change*, Mataró, 8-10 February 2023.

4. *A benthic-algae-based overview on the characteristics, main impacts (water exploitation, global change etc.) and stewardship of the different types of freshwater environments (healthy water from healthy ecosystems)*. Invited Speaker at the lecture series (webinar) on the theme 'WATER and HEALTH' on the occasion of the World Water Day March 22nd 2021. University of Kashmir Srinagar (India), Department of Environmental Science. [online due to CoViD pandemics; YouTube: <https://www.youtube.com/watch?v=rZUaX49zsew&t=3941s>]

3. *Multiplicity, Characteristics, Main Impacts, and Stewardship of Natural and Artificial Freshwater Environments: The Benthic Diatom Perspective*. Invited as **Plenary Speaker** at the **North American Diatom Symposium** (NADS 2019), July 31-August 4th, 2019, University for Georgia, GA, USA.

2. *Springs: The Forgotten Habitats*. Invited as **Keynote Speaker** at the **1st Iberian Symposium on the Conservation of Spring Ecosystems** (SICEF19), Barcelona, June 10th-12th 2019 [Symposium honoring Prof. Ramon Margalef, one of the fathers of modern ecology, a century after his birth]

1. *Long-term studies on spring-habitat algae and cyanobacteria in of the Alps under the influence of environmental change*. Invited lecture (**Guest of honor**) at the Workshop XXXV **International Conference of the Polish Phycological Society**. Łódź-Stryków, Poland, June 01.-04. 2016.

- **Invited Lectures at qualified scientific Institutions (5):**

5. *Ecology, diversity, and adaptations of algae in springs and lakes*. Thursday, May 25th 2017, h: 13.00. Institute of Hydrobiology (IHB), Biology Centrum (BC), Czech Academy of Sciences (CAS). České Budějovice, Czech Republic.

4. *Ecology, systematics, diversity, adaptations of freshwater algae*. Fakultät für Biologie. Biozentrum der LMU München. October 20th 2016. Germany.

3. *Multidisciplinary research in limnology /freshwater ecology*. Invited lecture at the Department of Plant and Environmental Sciences of the Norwegian University of Life Sciences, Ås, Norway. 02/02/2011.

2. *Limnological research at the Natural Sciences Museum of Trento, Italy*. The Natural History Museum, London, UK. 2000

1. *Hydrobiologie von Quellen im Adamello-Brenta Naturschutzgebiet (Trentino, Italien) unter besonderer Berücksichtigung der Algen* (1999, Limnological Station of Iffeldorf of the University of Munich, Germany)

- **invited talks at scientific workshops (2):**

2. *Ecological and morphological data on some of the main Achnanthyid species in spring habitats of natural preserves of the Alps (carbonate substratum)*. 1st European Workshop on Diatom Taxonomy (1st EWDT), Luxembourg, (26-27 November 2009).

1. *Lake Tovel as model system for the effects of water-level fluctuations in carbonate lakes*. International Workshop "Water-level fluctuations in lacustrine systems – ecological impacts and prospects of future climate change". 11-13/12/2005. University of Konstanz (Germany).

List of talks given (86)

International (56):

56. Cantonati M., Bolpagni R., Geist J., Hawes I., Levkov Z., Hamilton P.B., Poikane S., Zohary T. 2024. The fundamental contribution of lakes to global fresh waters and to the conservation of their biodiversity and ecosystem services. *7th European Congress of Conservation Biology "Biodiversity positive by 2030"*. Symposium 156-1 (Chair: Cantonati M., Manoylov K., Bolpagni R.). June 17th-21st 2024 – Bologna, Italy.
55. Cantonati M. 2024. Never finished/published...: Proposals for potential algal and cyanobacterial collaborative work from the Cantonati lab (UniBO-BiGeA, freshwater phyto-benthos). Workshop at PEREC *Algae and the environment* (organized by Dr Rosalina Stancheva Christova). George Mason University, Department of Environmental Science and Policy & Potomac Environmental Research and Education Center (PEREC). June 7, 2024.
54. Cantonati M., Glazier D.S., Wehr J., Fensham R., Tockner K. & Stevens L. 2024. Springs and connectivity among people and ecosystems. *Society for Freshwater Science Annual Meeting - Connecting to Enhance Freshwater Science*. Session 19 *Connecting to Foster Understanding and Conservation of Spring Ecosystems* (Chairs: Cantonati M., Glazier D.S. & J.D. Wehr). Philadelphia, PA, USA. June 2-6.
53. Cantonati M., Angeli N., Bilous O., Ciugulea I., Lange-Bertalot H., Papatheodoulou A. & Saber A.A. 2023. Taxonomic and ecological characterization of three symmetric biraphid diatom species from streams in Cyprus. *14th European Diatom Meeting*. 9 May - 11 May 2023. Meise Botanic Garden, Belgium.
52. Cantonati M., Filippini M., Gargini G. & Segadelli S. 2022. Investigating present and past mountain freshwater ecosystems in the Alps and the Northern Apennines. *International Mountain Conference #IMC22 Focus Session: ID04 Alpine aquatic biodiversity*. September 11-15 2022.
51. Saber A.A., Hamed A.F., Hauerová R., Štenclová L., Mareš J., Cantonati M. & Nosair H.R. 2022. *Desertinostoc kobbiae* gen. et sp. nov., a new cryptic *Nostoc*-like genus (Nostocaceae, Cyanobacteria) isolated from desert soil crusts (Siwa Oasis, Egypt). *22nd Symposium of the International Association of Cyanophyte/Cyanobacteria Research*. Section V: *Cyanobacteria as inhabitants of extreme habitats*. České Budějovice, Czech Republic.
50. Cantonati M., Cid Rodriguez M., Angeli N. & Spitale D. 2022. Diatoms as indicators of the effects of enhanced water-level fluctuations (artificial-snow production) in high ecological integrity high-mountain lakes of the south-eastern Alps. *36th Congress of the International Society of Limnology*, SIL100 (centennial SIL!). Special Session: *Assessment and biomonitoring of inland waters* (Chairs: Cantonati M. & Manoylov K.), Aug 10th. Berlin, Germany, 07-11 August 2022.
49. Cantonati M., Fensham R.J., Glazier D.S., Filippini M., Segadelli S., Gargini A., Goldscheider N., Knight R.L., Muotka T., Spitale D., Springer A.E., Tockner K. Wehr J.D. & Stevens L.E. 2022. Preventing silent springs: why spring ecosystems should be protected across the globe. *Joint Aquatic Sciences Meeting (JASM = 9 aquatic Societies meeting together)*. Special Session: *Springs: Unique aquatic habitats in steady decline* (Chairs: Cantonati M. & Stevens), Tue, May 17, DeVos Place - Grand Gallery Overlook. Grand Rapids, MI, USA, May 14–20, 2022 (on site) (1056)
48. Cantonati M., Spitale D., Donini E., Galluzzi G., Angeli N. & Zaccone C. 2021. Using diatoms and physical and chemical parameters to unveil cow-pasture impact in peat cores from a mountain mire in the south-eastern Alps. *European Geosciences Union General Assembly 2021 (vEGU21: Gather Online)*. 19-30/04/2021 [online due to CoViD pandemics]
47. Cantonati M., Charles D.F., Kelly M.G., Lowe R., R.D. Mazor, Poikane S., Spaulding S., Theroux S. & Zgrundo A. 2019. A comparison of benthic-algae-based environmental assessments in the European Union and the United States. Use of Algae for Monitoring Rivers and Comparable Habitats (10th UAMRICH). Special Session SS4 at the *Symposium for European Freshwater Sciences (SEFS11)*. Zagreb, Croatia. Chairs: M. Cantonati, A. Zgrundo & J. Kamberović).
46. Cantonati M. 2018. Indicators of water-level fluctuations in the littoral of natural and artificial lakes: from molecules to assemblage features. *Congress of the International Society of Limnology*. SIL, Aug. 19-25 Nanjing (China). Special Session S5. Ecological impacts of water-level fluctuations (WLF). Chairs: M.



Cantonati & T. Zohary).

45. Cantonati M. 2018. Research and dissemination activities on spring habitats in the Limnology & Phycology Section of the MUSE - Museo delle Scienze. Workshop ASPIRE. *1st Meeting Arbeitsgruppe 'Alpenquellen'*. December 7th-8th 2018. Hilpoltstein (Germany).

44. Cantonati M., Stancheva R., Armanini D., Angeli N., Busse, B.L., Dörflinger G., Fetscher A.E., Kelly M.G., Kociolek J.P., Sheath G.R., Spitale D. & Lange-Bertalot H. 2016. Mediterranean-climate streams diatom biodiversity: indications from environmental-assessment studies in two geographically distant areas. *24th International Diatom Symposium* (August 21–27 2016, Québec City, Canada). Session 3A Diatom-based assessments and monitoring of freshwater habitats (Chairs: M. Cantonati, M. Kahlert & K. Manoylov; Topic: Environmental assessments streams – Chair: M. Kahlert).

43. Cantonati M., Gerecke R., Stevens L.E. & Wehr J.D. 2016. State of play more than 50 years after the recognition of spring biology. Aug. 1-5 Turin. *Congress Internat. Society Limnology*. Special Session 36. Springs: Well-known groundwater resources, disregarded biodiversity hotspots (Chairs: M. Cantonati & R. Gerecke). Opening & introductory talk to the session.

42. Cantonati M., Celico F., Gargini A., Goldscheider N. & Segadelli S. 2015. Mutual gains and challenges in combining ecological and hydrogeological approaches. *42nd Congress of the International Association of Hydrogeologists* (IAH), AQUA2015, Rome. *S5.8 Ecohydrology and Groundwater Dependent Ecosystems*. Chairs: M. Cantonati & L. Ribeiro. Tuesday 15.

41. Cantonati M., Saber A.A., Mareš J., Guella G., Ichihara K., Carlile A. & Anesi A. 2015. Benthic algae and cyanobacteria from Egyptian desert springs and wells: isolated, stressful, and impacted freshwater habitats. *6th European Phycological Congress*. London, UK. Symp. 9. Algae in stressful environments (Convenors: Angela Wulff & Richard J. Geider). Thursday 27th 2015.

40. Cantonati M., Stancheva R., Armanini D., Busse L.B., Dörflinger G., Fetscher A.E., Kelly M.G., Kociolek J.P., Sheath R.G. & Spitale D. 2015. Stream-diatom-assemblage features in two geographically distant areas with Mediterranean climate. *International Workshop on Benthic Algae Taxonomy* (InBAT). Museo delle Scienze-MUSE. Trento. Session: *Diatoms*. Chairs: M. Cantonati & B. Van de Vijver. Thursday June 18.

39. Cantonati M., Spitale D., La Rocca N., Guella G., Angeli N., Moro I., Sciuto K. & Scalfi A. 2015. Adaptive biology of the red alga *Bangia atropurpurea* in the rocky-shore phytobenthos of the large peri-alpine Lake Garda: Consequences for its use in environmental assessments. *9th Use of Algae for Monitoring Rivers and comparable habitats (UAMRICH)*. Museo delle Scienze-MUSE. Trento. Session: *Overlooked aspects/habitats*. Chairs: E.J. Cox & E. Rott. Monday June 15.

38. Cantonati M., Kelly M.G., Armanini D., Lange-Bertalot H., Angeli N., Demartini D. & Dörflinger G. 2015. Diatom biodiversity in Mediterranean streams and its potential for environmental assessments: a case study from the Island of Cyprus. *Society for Freshwater Science (SFS) 2015 Annual Meeting*, Milwaukee, Wisconsin, USA, May 16–23, 2012. Session T12: *Bioassessment*. Tuesday May 19th 2015.

37. Cantonati M. & Gerecke R. 2014. Spring research 50 years after the definition of crenobiology. *Joint Aquatic Sciences Meeting (JASM = SFS+ASLO+PSA+SWS) 2014*, Portland, Oregon, USA, May 20–25, 2012.

36. Cantonati, M., Lange-Bertalot, H., Segadelli, S., Taxböck, L., Mogna, M., Kamberovic, J., Saber, A.A., Letáková, M., Rosati, M. 2014. Recent progress in research on diatoms in springs: selected results from case studies in the Alps, Apennines, Dinaric mountains, and North Africa. *8th Central European Diatom Meeting (CEDIATOM8)*, Zagreb, Croatia, 10-13/04/2014.

35. Cantonati M., Gerecke R., Segadelli S., Angeli N., Spitale D., Rossetti G., Rosati M., Rott E., Stoch F., & De Nardo M.T. 2013. Exploring and understanding the Biodiversity of Emilia-Romagna Spring habitats (Northern Italy): The EBERs Project. SIL 2013 – 4-9 Aug. Budapest. *Congress Internat. Society Limnology*. Theme 2. Biodiversity in aquatic ecosystems. Parallel Session 4. Chairs: T. Muotka, N. Willby, B. Pinel-Alloul, D. Schmera, N. Usio. Tuesday 6. Aug. 2013, 15.20.

34. Cantonati M., Lange-Bertalot H., Segadelli S., Angeli N. & Gabrieli J. 2013. Unexpectedly high diatom biodiversity in spring-habitats of the Emilia-Romagna Region (Italy, EBERs Project), and its hydrogeological and hydrochemical prerequisites. *7th Central European Diatom Meeting (CEDIATOM7)*, Thonon-les-Bains, France, 17-21/09/2013. Session: Ecology (Chairs: Almeida S. & Kulikovskiy M.). h: 13.40 Opening talk of the session (19/09).

33. Cantonati M. & Lange-Bertalot H. (with contributions of Martyn Kelly and David Armanini) 2013. New freshwater araphid diatom species from different freshwater habitats. *2nd European Workshop on Diatom Taxonomy - 2nd EWDT: Araphid freshwater diatoms*, Chairperson: Luc Ector. h: 14.00 20/09. Thonon-les-Bains, (20-21 September 2013).

32. Cantonati M. & Angeli N. 2012. *9th International Symposium on the Use of algae for Monitoring Rivers* (9th UAMRIVER). Trento. June-July 2015. First Announcement. *8th International Symposium on the Use of algae for Monitoring Rivers* (UAMRIVER 2012), Alcalá de Henares, Madrid, Spain, 18-22 June 2012.

31. Cantonati M., Angeli N. & Spitale D. 2012. Towards the development of benthic-algae tools for the bioassessment of the quality and ecological integrity of spring habitats. *8th International Symposium on the Use of*

algae for Monitoring Rivers (UAMRIVER 2012), Alcalá de Henares, Madrid, Spain, 18-22 June 2012. Session 1. Implementation of the European Water Framework Directive. O03.

30. Cantonati M., Spitale D., Guella G. & La Rocca N. 2012. Adaptive biology (desiccation and UV) of the rhodophyte *Bangia atropurpurea* in the eulittoral phyto-benthos of the large peri-alpine Lake Garda. *Society for Freshwater Science (SFS) 2012 Annual Meeting*, Louisville, Kentucky, USA, May 20–25, 2012. Special session S02 - Lake benthic algae communities: bioassessment, traits and adaptive ecology. 5/24/2012 - 11.15.

29. Cantonati M., Scalfi A., Lange-Bertalot H. & Spitale D. 2012. Benthic diatoms in the frame of an adaptive-biology study (water-level-fluctuations-related stressors) of the rhodophyte *Bangia atropurpurea* in the phyto-benthos of the large, peri-Alpine Lake Garda (ACE-SAP.A2.WP2). *6th Central European Diatom Meeting (CEDIATOM6)*, Innsbruck, Austria, 22-25/03/2012. Session: Biomonitoring, Toxicology, Ecology (Chair: David Mann).

28. Cantonati M., 2011. Water crisis: Spring habitats as hotspots of freshwater biodiversity, and their potential role for its conservation. *North American Benthological Society (NABS), Annual Meeting*, Providence, Rhode Island, USA, May 22–26, 2011. Session S03, 23-05-2011 – Sustaining Freshwater Biodiversity and Ecosystem Services: Global Patterns, Processes, and Planning; Moderator: J. Kominoski).

27. Cantonati M., Gerecke R. & D. Spitale 2011. The contribution of benthic cyanobacteria and algae to the definition of spring types as a prerequisite for the development of ecological-integrity and environmental-quality assessment procedures for spring habitats. *10th International Conference of the Aquatic Ecosystem Health and Management Society*. Siena (Italy). June 13-15. S3.04.

26. Cantonati M., Wojtal A., Falasco E., Gabrieli J. & Angeli N. 2011. *Achnanthes minutissimum* (Bacillariophyta) teratological forms as indicators of heavy metal (Cu) enrichment / pollution in different freshwater environments. *5th Central European Diatom Meeting (CEDIATOM5)*, Szczecin, Poland, 24-27/03/2011.

25. Rott E. & Cantonati M. 2010. 20th Symposium of the International Association for Cyanophyte Research (IAC), Proposal & Invitation to Innsbruck (Tyrol, Austria), Spring or summer 2016. *18th Symposium of the International Association for Cyanophyte Research*, 15th-20th August 2010, České Budějovice, Czech republic.

24. Cantonati M., Rott E., Spitale D., Bertuzzi E., Angeli N. & Komárek J. 2010. Cyanoprokaryotes and algae forming macroscopic structures in springs of the Alps, and their contribution to the re-definition of spring types. *18th Symposium of the International Association for Cyanophyte Research*, 15th-20th August 2010, České Budějovice, Czech Republic.

23. Cantonati M., Kocielek J.P. & Lange-Bertalot H. 2010. Diatoms in benthic oligotrophic habitats: Towards combining perspectives from Europe and North America. *Central European Diatom Meeting, CEDIATOM4*, Island of Reichenau – Lake Constance, Germany, 12-14/03/2010. [Opening talk of the Conference]

22. Cantonati M., 2010. Using epilithic and epiphytic (on the rhodophyte *Bangia atropurpurea*) diatoms to assess the environmental quality of the shores of the largest Italian lake (L. Garda). Lecture at the Faculty of Science of the Masaryk University (Dept. of Botany and Zoology, Mire Ecology & Running Waters Biology Working Groups), Brno, Czech Republic. 25/03/2010.

21. Cantonati M., 2010. Use of benthic organisms from multiple taxonomic groups for the conservation-oriented classification of spring habitats: Neglected and threatened key habitats for biodiversity conservation. Lecture at the Faculty of Science of the Masaryk University (Dept. of Botany and Zoology, Mire Ecology & Running Waters Biology Working Groups), Brno, Czech Republic. 26/03/2010.

20. Cantonati M., Scalfi A., Spitale D. & H. Lange-Bertalot, 2009. Using epilithic and epiphytic (on the rhodophyte *Bangia atropurpurea*) diatoms to assess the environmental quality of the shores of the largest Italian lake (L. Garda). *7th International Symposium "Use of Algae for Monitoring Rivers" (7th ISUAMR)*, Luxembourg, (23-25 November, 2009). Oral Session 4 (Biofilms and choice of substrate; Chaired by: M. Cantonati and S. Sabater).

19. Cantonati M., Spitale Daniel & Reinhard Gerecke, 2009. Use of benthic organisms from multiple taxonomic groups for the conservation-oriented classification of spring habitats: Neglected and threatened key habitats for biodiversity conservation. *North American Benthological Society (NABS) 57th Annual Meeting*, Grand Rapids, MI, USA (17-22 May, 2009). Session 91 (Conservation Ecology; Moderator: M. Cantonati) (608)

18. Cantonati M., Daniel Spitale, Alessia Scalfi & Martina Battistotti, 2009. Epiphytic (on the rhodophyte *Bangia atropurpurea*) and epilithic littoral diatoms of Lake Garda (Italy) studied in the frame of the ACE_SAP Project (2008-2011). *Central European Diatom Meeting, CEDIATOM3*, Utrecht, The Netherlands 27-29/03/2009.

17. Cantonati M., Angeli N., Bertuzzi E., H. Lange-Bertalot, Spitale D. & A. Scalfi 2008 - Diatoms in springs of the Alps: Ecology and taxonomy - *20th International Diatom Symposium* (7–13 September 2008, Dubrovnik, Croatia).

16. Cantonati M., Lange-Bertalot H., Angeli N., Bertuzzi E., Scalfi A. & Spitale D. 2008. New diatom genera and species in springs of the Alps, and their suitability for an ecological characterization of springs. *2nd Central European Diatom Meeting (CEDIATOM2)*: Trento, Italy, 12-15 June.

15. Cantonati M., Spitale D., Bertuzzi E., Angeli N., Guella G., Nascimbene J., Petraglia A., Rott E., Tomaselli M., Scalfi A., Frassanito R., Lange-Bertalot H. & Komárek J., 2007. Photoautotrophs in spring-habitats: results from a multidisciplinary project in the SE Alps (CRENODAT). *30th Congress of the International Association of Theoretical and*

Applied Limnology. August 12-18, 2007 Montréal, Canada. SIL 2007 Abstracts CD.

14. Cantonati M. 2007 – Stand der biologischen Forschung an Quellen. *Life-Natur-Projekt "Kalktuffquellen in der Frankenalb"*. 16.-17. Oktober 2007. Landesbund für Vogelschutz in Bayern e.V., Verband für Arten- und Biotopschutz (LBV).

13. Cantonati M., Angeli N., Bertuzzi E., Spitale D. & H. Lange-Bertalot, 2006 - Epibryon diatom communities in springs of the Alps - *19th International Diatom Symposium* (28 August – 3 September 2006, Listvyanka, Lake Baikal, Russia). *Abstract Book*: 27.

12. Cantonati M., 2005 Quelforschung in Trentino (Crenodat Projekt) 2. *Internationaler Workshop "Karstwassermanagement und alpine Schutzgebiete"*. June 09-10/06/2005. Johnsbach, Nationalpark Gesäuse (Austria).

11. Scola S., Angeli N., Cantonati M. & G. Rossetti, 2004 – Depth-distribution of living benthic diatoms in a mountain lake – 18. *Tagung Deutschsprachiger Diatomologen*. 26-28/03/2004. Limnologische Station Iffeldorf. *Abstracts*: 3.

10. Cantonati M., Scola S., Angeli N., Frassanito R. & G. Guella, 2004 – Distribution of the periphyton along a depth-gradient in a mountain lake characterized by marked water level fluctuations – *Societas internationalis Limnologiae (SIL), Internat. Association of Theoretical and Applied Limnology, XXIX Congress, Lahti, Finland, 8-14 August 2004, Book of abstracts*: 27.

9. Cantonati M., Angeli N., Frassanito R., Guella G., Lami A., Lazzara M., Lencioni V. & Tardio M., 2003 – Neo- and paleolimnology of a mountain lake once affected by spectacular red blooms – *9th International Paleolimnology Symposium. Espoo, Finland, August 24-28 2003. Abstract volume*: 27.

8. Cantonati M., Angeli N., Scola S. & G. Rossetti, 2002 - Depth distribution of epilithic diatoms in a mountain lake (Lake Tovel, 1178 m a.s.l., Northern Italy) - *17th International Diatom Symposium*. Ottawa, Canada, 25-31 August, 2002 *Book of abstracts*: 19.

7. Cantonati M., Corradini G., Jüttner I. & J. Cox, 2000 - Diatom assemblages in high mountain streams of the Alps and the Himalaya - *International Symposium Algae and extreme environments*. Trebon (Czech Republic), 11-16 September 2000.

6. Cantonati M., 1999 - A student course describing the late summer situation of a mountain lake (lake Tovel, 1178 m a.s.l., Southern Alps) - *8th International Conference on the Conservation and Management of Lakes - Lake99*, 17-21/5/1999, Copenhagen, Denmark.

5. Tolotti M., Cantonati M. & F. Corradini, 1999 - Investigating dinophyte blooms with P-enriched enclosures in a mountain lake (lake Tovel, Southern Alps, Italy) - *8th International Conference on the Conservation and Management of Lakes - Lake99*, 17-21/5/1999, Copenhagen, Denmark.

4. Cantonati M. & E. Pipp, 1998 - Longitudinal and seasonal differentiation of epilithic diatom communities in the uppermost sections of two mountain spring-fed streams - *XXVII SIL (Societas Internationalis Limnologiae) Congress*, 9-14/8/1998, Dublino, Irlanda.

3. Cantonati M. & K. Ortler, 1998 - Using spring biota of pristine mountain areas for long term monitoring - *Headwater'98 Conference held at Merano/Meran, Italy, April 1998. Hydrology, Water Resources and Ecology in Headwaters*.

2. Bonettini A.M. & Cantonati M. 1996. Macroinvertebrate assemblages of springs of the River Sarca catchment (Adamello-Brenta Regional Park, Trentino, Italy). *1st European Symposium of Spring Ecology and Conservation*, 6-10/3/1996, Münster, Germany.

1. Cantonati M., Rott E. & E. Pipp, 1995. Ecology of cyanophytes in mountain springs of the River Sarca catchment (Adamello-Brenta Regional Park, Trentino, Northern Italy). *13th International Symposium on Cyanophyte Research*, 1995, Frascati, Italy.

National [includes national invited talks = 4] (30):

30. Cantonati M. 2018. Valutazione della biodiversità delle diatomee bentoniche negli habitat delle acque interne: sfide e opportunità. Convegno nazionale "La componente diatomica negli ambienti fluviali, lacustri e zone umide: esperienze di valutazione della biodiversità e prime esperienze di accreditamento del metodo". ARPA Umbria, CISBA, ISPRA. 18-19 ottobre 2018. **[invited]**

29. Cantonati M. 2018. Freshwater Benthic Diatoms of Central Europe: Over 800 Common Species Used in Ecological Assessment. Approfondimenti sulla tassonomia delle diatomee bentoniche d'acqua dolce: verso il processo di normalizzazione del circuito d'interconfronto. AssoARPA, CISBA, ISPRA, University Trieste. Trieste. February 6-7th 2018. Università degli Studi di Trieste. Aula Magna - Edificio M (Botanica).

28. Cantonati M. 2017. Nuova risorsa per il riconoscimento delle microalghe diatomee per la valutazione della qualità ambientale. APPA-TN, CISBA, ISPRA, MUSE. November 20-23rd 2017. MUSE, Trento.

27. Cantonati M., Angeli N., Spitale D., De Nardo M.T., Segadelli S., Rossetti G. & Rosati M. 2015. Il Progetto EBERs (*Exploring Biodiversity of Emilia-Romagna springs*): biodiversità ed ecologia degli ambienti associati alle acque sorgive e criteri per la loro valorizzazione. Convegno: *Valore all'Appennino: il contributo della Geologia. Conoscenze per vivere e lavorare in montagna*. Consiglio Nazionale dei Geologi, Servizio Geologico Regione Emilia-Romagna. Bologna, 22 ottobre 2015.

26. Cantonati M. 2015. Ecologia delle sorgenti pietrificanti: lo studio di Labante e confronto con altre situazioni analoghe in Europa.

- Convegno: Le grotte e le sorgenti di Labante: tutela, valorizzazione e fruizione di un bene della comunità. Servizio Geologico Regione Emilia-Romagna. Labante, Castel d'Aiano (BO). 21 ottobre 2015.
25. Cantonati M. 2015. Diatoms in freshwater bioassessment: State-of-the-art morphotaxonomy, ecological preferences, & indices. Workshop 'Diatoms in lake and stream biomonitoring'. Environmental Agency of the Province of Trento & Italian Centre for Environmental Biology Studies. Trento, March 21st 2014. [invited]
 24. Rosati M., Cantonati M., De Nardo M.T., Segadelli S. & Rossetti G. 2013. Conoscenze sull'ostracodofauna di sorgenti in Italia e obiettivi e metodi per un nuovo ciclo di ricerche in Appennino settentrionale. *Meeting of Italian Ostracodologists*. 22-24 February. Catania. Sicily.
 23. Cantonati M., Spitale D., Guella G. & La Rocca N. 2013. A2-wp2 - Adaptive traits of the rhodophyte *Bangia atropurpurea* in relation to water-level-fluctuations-related stressors in the phytobenthos of the large, peri-Alpine Lake Garda. ACE-SAP Review Meeting, S. Michele all'Adige (TN), 04/02/2013. Abstract book.
 22. Cantonati M. 2012. Ricerche su ambienti acquatici, con particolare attenzione alle sorgenti e alle microalghe diatomee. *Convegno "Documentazione della biodiversità e valorizzazione del pregio naturalistico del settore trentino del Parco Nazionale dello Stelvio attraverso le ricerche del Museo delle Scienze"*. Cogolo di Peio (TN), 01/06/2012. Convegno organizzato da: Museo delle Scienze (MUSE) e Parco Nazionale dello Stelvio (PNS).
 21. Cantonati M., Spitale D., Guella G. & La Rocca N. 2011. A2-wp2 - Target species: *Bangia atropurpurea* (Roth) C. Agardh - Adaptive traits of the rhodophyte *Bangia atropurpurea* in relation to water-level-fluctuations-related stressors in the phytobenthos of the large, peri-Alpine Lake Garda. ACE-SAP 3rd Annual General Meeting, SperimentArea – Bosco della Città Rovereto (TN), 13-15/05/2011. Abstract book: 19-22.
 20. Cantonati M. & D. Spitale 2010. Gli habitat sorgivi delle Alpi come *hotspot* di biodiversità: una prospettiva museologica. In: 20. *Congresso dell'Associazione Nazionale Musei Scientifici*, 17-19 Novembre 2010, Ferrara, Italy.
 19. Cantonati M., Spitale D. & Nascimbene J. 2010. Biodiversità delle "piante inferiori": stato delle conoscenze e prospettive. Bioweb 2010. Biodiversità. L'insostituibile valore della diversità in natura Museo Tridentino di Scienze Naturali (TN). 19-22/05/2010.
 18. Cantonati M., Spitale D., Guella G. & La Rocca N. 2010. A2-wp2. Adaptive traits of the rhodophyte *Bangia atropurpurea* in relation to water-level-fluctuations-related stressors in the phytobenthos of the large, peri-Alpine Lake Garda. ACE-SAP 2nd Annual General Meeting, Mt. Zugna (TN), 19-20/05/2010. Abstract book: 19-22.
 17. Cantonati M. 2009 – Diatomee come indicatori di integrità e qualità negli habitat sorgivi (progetto CESSPA e progetto CRENODAT) – *Workshop 05 organizzato dall'Autorità di Bacino del Fiume Adige*, 18-03-2009, Museo di Scienze Naturali dell'Alto Adige, Bolzano.
 16. Cantonati M. (together with V. Lencioni) 2009 - Gli adattamenti al clima montano come fatti dell'evoluzione – *Darwin day Round Table*, Museo Tridentino Scienze Naturali, Trento (12/02/2009).
 15. Cantonati M., Lange-Bertalot H., Komárek J., Angeli N., R. Frassanito, Scalfi A. & G. Guella, 2008. Tassonomia ed ecologia di nuovi generi e specie di diatomee e cianoprocaroti di sorgenti delle Alpi. *Annual Meeting of the Italian Phycology Working Group*. Società Botanica Italiana, Dipartimento di Biologia dell'Università di Padova. Centro Studi Termali "Pietro Abano". Abano Terme, Padova, 14-15 novembre 2008.
 14. Bertuzzi E., Cantonati M., 2007 Piccoli laghi alpini d'alta quota, *Kleine Bergseen*. INTERREG IIIA Italia-Austria 2000-2006 "Studio della qualità delle acque dei piccoli laghi alpini" (VEN 111059) (S. Vito di Cadore, BL, 01-12-2007)
 13. Cantonati M., Angeli N., Bertuzzi E., Spitale D., Lange-Bertalot H., Gerecke R., Komárek J., Sambugar B., Guella G., Nascimbene J. & P. Oss Cazzador 2007 - Il contributo del progetto CRENODAT allo studio della biodiversità delle sorgenti del Trentino. 80° *Meeting della Società Italiana di Biologia Sperimentale* (29/11-01/12, 2007, Trento). *Libro degli Abstract*.
 12. Cantonati M., Angeli N. & M. Tardio, 2006 - La Stazione Limnologica del Lago di Tovel e il microscopio elettronico a scansione a pressione variabile: due importanti elementi di novità nella ricerca del Museo Tridentino di Scienze Naturali - *Convegno Associazione Nazionale Musei Scientifici – ANMS*, Trento – Bolzano (11-13/ 05/2006). *Abstract Relazioni*: 9.
 11. Cantonati M. 2004. Intervento alla Presentazione del volume "I trecento laghi del Trentino" di Gino Tomasi (18/11/2004, Trento).
 10. Cantonati M. & E. Bertuzzi, 2003 – La preparazione dei materiali algologici - 3° Seminario sulla conservazione dei reperti naturalistici "La preparazione dei reperti naturalistici". Pavia, 21/11/2003. Riassunti dei contributi: 11.
 9. Cantonati M., Gerecke R. & E. Bertuzzi, 2003 - Le sorgenti delle Alpi: dalla valutazione della biodiversità alle ricerche ecologiche di lungo corso - *XIII Congresso Nazionale Società italiana di Ecologia: "Ecologia Quantitativa: metodi sperimentali, modelli teorici, applicazioni"*. Como. 8-10 settembre 2003. *Programma e riassunti* (a cura di R. Casagrandi & P. Melià): 28-29.
 8. Corradini G., Cantonati M. & E. Bertuzzi, 2003 – Le diatomee di corsi d'acqua d'alta quota in Parchi Naturali del Trentino Occidentale – *XVI Convegno del Gruppo per l'Ecologia di Base "G. Gadio", "Il fiume e il suo bacino"*. Abstract book: 29. Pavia, 10-12 maggio 2003.
 7. Cantonati M. 2003. La nuova Stazione Limnologica a Tovel del Museo Tridentino di Scienze Naturali in convenzione con il Comune di Tuenno (05/12/2003, Tuenno – TN – Intervento nell'ambito del Convegno "Life Tovel: un modello di sviluppo sostenibile. I risultati guardando al futuro."
 6. Cantonati M., Lazzara M., Angeli N., Corradini F., Tavernini S., Tolotti M. & E. Bertuzzi, 2002 - Esperienze di ricerca su laghi d'alta quota del Trentino: un contributo per una corretta gestione - *Le zone umide montane in Italia: esperienze di ricerca e gestione*, Parma, 27-29 giugno 2002, *Libro degli abstract*: 16-17.
 5. Cantonati M. 2015. Le alghe delle acque dolci: sensibili indicatori ambientali e non solo... (2001, Terme di Comano (TN), Convegno sull'acqua organizzato dai Lions Club) [invited]
 4. Cantonati M., 2001 - La letteratura limnologica sul lago di Tovel: una sintesi alla luce delle evidenze più recenti sul fenomeno dell'arrossamento - *XV Convegno Nazionale del Gruppo d'Ecologia di Base "G. Gadio", Trento, 5-7 maggio 2001. Abstract Book*: 28.

3. Cantonati M., Guella G. & R. Frassanito, 2000 - Osservazioni preliminari sul rinvenimento di *Bangia atropurpurea* (Rhodophyta, Bangiales) nel lago di Garda – *Riunione Scientifica Annuale del Gruppo di lavoro per l'Algologia della Società Botanica Italiana* (10-11 novembre 2000, Ancona), *Riassunti*: 9.
2. Cantonati M., 2000 Investigations on the biocoenoses of the high-mountain lakes of a protected area of the southern Alps (Adamello-Brenta Natural Park, Trentino) *Zoologische und botanische Forschung in Südtirol / Ricerca zoologica e botanica in Alto Adige*, 29-30/9/2000, Bolzano/Bozen.
1. Cantonati M. 1999. Le sorgenti ed i laghi alpini (1999, 105th Congress of the Trentino Section of the Italian Alpine Club, Storo, Trentino) [invited]

k) **Congress Abstracts – Posters** (only those referring to works not published in extenso on the Proceedings) (79) [the complete list is available in the Publications' list]
2022



Organization of International Congresses & Special sessions (21) [featured on

<https://www.facebook.com/UAMRich-2015-other-Congresses-Sp-Sessions-organized-by-Marco-Cantonati-918821638141628/>

21. 7th European Congress of Conservation Biology “Biodiversity positive by 2030”. June 17th-21st 2024 – Bologna, Italy. Organizer of the Symposium *Conservation of freshwater ecosystems: Can we be biodiversity positive by 2030?* (S156; June 20th). (2 Endorsements -IPS & ISDR- obtained for the Congress).
20. Society for Freshwater Science Annual Meeting - Connecting to Enhance Freshwater Science (Philadelphia, PA, USA; June 2-6, 2024). Organizer (with Glazier & Wehr) of the Session *Connecting to Foster Understanding and Conservation of Spring Ecosystems* (S19; June 3rd).
19. Member of the International Scientific Committee of the 15th European Diatom Meeting, May 7th-9th 2024, Lake Ohrid, Republic of Northern Macedonia.
18. Symposium (Special Session) 4 - *Taxonomy, ecology and conservation of Mediterranean marine and freshwater algae*. Chairs: A.M. Mannino (Palermo, Italy), C. Rodriguez-Prieto (Girona, Spain), M. Cantonati (Bologna, Italy) within the XVII OPTIMA Meeting, Palermo-Erice (Italy, Sicily), 20-23/09/2023.
17. 36th Congress of the International Society of Limnology -SIL100 (centennial SIL!)- (Berlin, Germany, 07-11 August 2022). Organizer (with Kalina Manoylov, Georgia University, USA) of the Special Session *Assessment and biomonitoring of inland waters* (Aug 10th 2022, 16 contributed talks).
16. 2022 Joint Aquatic Sciences Meeting (JASM = SFS+ASLO+ PSA+SWS+IAGR...) (Grand Rapids, MI, USA, May 14.-20. 2022). Organizer of the Special Session *Springs: Unique aquatic habitats in steady decline*; Chairs: Cantonati M. & Stevens L. 10 talks. Tue, May 17 1:30-5:00 pm, DeVos Place - Grand Gallery Overlook
15. 11th Symposium for European Freshwater Sciences -SEFS11- (Zagreb, Croatia, June 30th-July 5th 2019). Organizer (with Aleksandra Zgrundo, Institute of Oceanography in Gdynia, Poland) of the Special Session *10th Use of algae for monitoring rivers and comparable habitats* (UAMRICH10). July 4th 2019, 9 contributed talks + 3 posters).
14. XXXIV Congress of the International Society of Limnology -SIL- (Nanjing, China, 19-24 August 2018). Organizer (with Tamar Zohary, Kinneret Limnological Laboratory, Israel) of the Special Session *S5 Ecological impacts of water-level fluctuations* (WLF) (S5; Aug 22nd 2018, 11 contributed talks).
13. Member of the International Scientific Committee of the 20th Symposium of the International Association for Cyanophyte Research, August 2016, Innsbruck, Austria.

12. Member of the *International Scientific Committee* of the 24th *International Diatom Symposium*, 21-26 August 2016, Québec City, Canada (IDS2016 President: Prof. Reinhard Pienitz).
11. Member of the Organizing Committee of the XXXIII *SIL (Societas Internationalis Limnologiae)* Congress, 31. July- 6. August 2016, Turin, Italy.
10. XXXIII Congress of the International Society of Limnology -SIL- (Turin, Italy, August 1-5 2016). Organizer (with Reinhard Gerecke, University of Tübingen, Germany) of the Special Session 36. Springs: Well-known groundwater resources, disregarded biodiversity hotspots (21 contributed talks).
9. Member of the Scientific Committee of the *International Conference of the Polish Phycological Society*. Łódź-Stryków, Poland, June 01.-04. 2016.
8. Convenor of the Session S5.8 *Ecohydrology and Groundwater Dependent Ecosystems* (coordinated by IAH Network "Groundwater and Ecosystems"). 42nd IAH (*International Association of Hydrogeologists*) Congress, AQUA2015. Rome. Tuesday September 15th. Chairs: M. Cantonati & L. Ribeiro.
7. Organizer & Chair of the International Symposium and Workshop: *Use of algae for monitoring rivers and comparable habitats and International Workshop on Benthic Algal Taxonomy* (9thUAMRiCH & InBAT, June 15-19 2015). 67 participants from 23 countries, including US, Canada, Chile, South Africa and Zimbabwe. 64 contributions: 37 talks and 27 posters.
6. 2014 Joint Aquatic Sciences Meeting (JASM = SFS+ASLO+ PSA+SWS) (Portland, Oregon, USA, May 18.-23. 2014) (3180 registrants!). Organizer of the Special Session *Spring-habitats' and spring-fed headwaters' biology fifty years after the definition of crenobiology*; Co-Chairs: Cantonati M., Muotka T., Richardson J., & M. Vis. 15 talks. Program Book (Johnson et al. Eds.): 49.
5. Member of the *Scientific Committee* of the 8th International Symposium "Use of Algae for Monitoring Rivers" ISUAMR (Madrid, Spain, 19-22/06/2012).
4. 2012 Meeting of the Society for Freshwater Science (SFS, formerly NABS, Louisville, KY, USA, May 20-24) *Freshwater Stewardship: Challenges and Solutions*. Organizer (with Prof. Rex Lowe, Bowling Green State University, Ohio, USA) of the Special Session *Lake benthic algae: communities, bioassessment, traits and adaptive ecology of selected species* (S02; 5/24/2012, 12 contributed talks).
3. Congress organizer. 2nd Central European Diatom Meeting (zugleich 22. Deutschsprachiger Diatomologen Treffen / 22nd German-speaking Diatomists' Meeting) 12-15 June 2008, Trento. About hundred registered delegates from 21 countries (in decreasing order by number of registered participants): Germany, Italy, Czech Republic, Austria, Russia, Spain, Hungary, Poland, United Kingdom, Switzerland, Luxembourg, France, Croatia, Belgium, Israel, Sweden, Serbia, Macedonia, Canada, Bosnia, Netherlands). 71 contributions (21 talks + 50 posters).
2. 30th Congress of the International Association of Theoretical and Applied Limnology, August 12-18, 2007 at the Montréal Convention Centre (Montréal, Canada). Special Session: "Springs and small streams: understudied and under-protected key habitats for biodiversity conservation". Session organizers: Dr Marco Cantonati, Trentino Science Museum, Limnology and Phycology Section, Trento, Italy & Prof John S. Richardson, University of British Columbia, Vancouver, Canada. 15 talks + 4 poster. Guest Editing (Cantonati & Richardson) of the papers submitted for publication (11 papers, *International Association of Theoretical and Applied Limnology – Proceedings*).
1. Congress organizer 12th German-speaking Diatomists' Meeting / Deutschsprachiger Diatomologen Treffen. 27-29 March 1998. Trento.
National Congresses (4)
4. 117° Congresso della Società Botanica Italiana - VIII International Plant Science Conference (IPSC). Bologna, 7-10 September 2022. Member of the Organizing Committee (2 Sponsorships -Koeltz & Waltz- achieved). Co-Organizer (with R. Pistocchi) of Symposium 5 *Primary and secondary metabolites produced by aquatic phototrophs with implications for the environment and bioeconomy*.
3. Workshop "Diatoms in lake and stream biomonitoring", Environmental Agency of the Province of Trento & Italian Centre for Environmental Biology Studies. Trento, March 21st 2014. Chairperson.
2. Workshop "Le zone umide montane in Italia: esperienze di ricerca e gestione", Università di Parma e Parco dei Cento Laghi, Parma 27-29 giugno 2002. Member of Scientific Committee, and Chairperson.
1. XV Congress of the Fundamental Ecology Group "G. Gadio" (2001, Trento, Member of the Organizing Committee and Chairperson).

Chairperson at Symposia and Workshops (14 + 3)

14. *Workshop on the Use of photoautotrophs for monitoring aquatic ecosystems* (Gdansk, Gdynia, Poland, September 12th-14th 2018). Session: *Benthic diatoms*. Chair: M. Cantonati. Session included introductory talk by the chair and a practical part in the microscopy lab.
13. *24th International Diatom Symposium* (August 21–27 2016, Québec City, Canada). Session 3A *Diatom-based assessments and monitoring of freshwater habitats* (Chairs: M. Cantonati, M. Kahlert & K. Manoylov; Topic: Environmental assessments streams – Chair: M. Kahlert).
12. *International Conference of the Polish Phycological Society* (Łódź-Stryków, Poland, June 01.-04. 2016). Session 3. Dedicated to Prof. Horst Lange-Bertalot. Chairs: M. Cantonati & A. Witkowski. June 3rd 2016, h: 9-13.
11. *International Workshop on Benthic Algal Taxonomy* (InBAT, June 18-19 2015). Session: *Diatoms*. Chairs: M. Cantonati & B. Van de Vijver. Session included a practical part in the microscopy lab of the University of Trento.
10. 7th Central European Diatom Meeting (CEDIATOM7), Thonon Les Bains, France, 17-21/09/2013. Taxonomy session 1. Chairs: Jüttner I. & Cantonati M.
9. 8th International Symposium Use of Algae for Monitoring Rivers. Alcalá de Henares (Madrid), 19th-22nd June, 2012. Oral Session 2. *Last advances in algal monitoring methodologies*. Chaired by: M. Cantonati and E. Rott.
8. 6th Central European Diatom Meeting (CEDIATOM6), Innsbruck, Austria, 22-25/03/2012. Poster session 1 – *Paleolimnology, Springs, Taxonomy*.
7. 5th Central European Diatom Meeting (CEDIATOM5), Szczecin, Poland, 24-27/03/2011. Plenary session – *Bioindication* – Chairs: Marco Cantonati, Luc Ector.
6. 7th International Symposium “Use of Algae for Monitoring Rivers” (7th ISUAMR), Luxembourg, (23-25 November, 2009). Oral Session 4 (*Biofilms and choice of substrate*; Chaired by: M. Cantonati and S. Sabater)
5. *North American Benthological Society (NABS) 57th Annual Meeting*, Grand Rapids, MI, USA (17-22 May, 2009). Session 91 (*Conservation Ecology*; Moderator: M. Cantonati)
4. 20th International Diatom Symposium (7-13 September 2008, Dubrovnik, Croatia). Chairperson (together with B. Van de Vijver) of the Session on *Application of diatoms in water quality assessment* (closing scientific session of the Congress).
3. 19th International Diatom Symposium (2006, Listvyanka, Lake Baikal, Russia). Chairperson of the Session on *Extreme environments* (oral presentations + posters).
2. 1st Central European Diatom Meeting (1st CE-Diatom) (23-25/03/2007, Berlin, Germany; Chairperson on *Biodiversity and biogeography of diatoms* - oral presentations)
1. 17th German-speaking Diatomists’ Meeting (03-06/04/2003, Bremerhaven, Germania; Chairperson).

Dr Marco Cantonati, PhD, Priv.-Doz. - **Elenco completo delle pubblicazioni scientifiche**

(le pubblicazioni di *public engagement* sono disponibili nella sezione ‘Terza missione’ del CV)

(134+31+14+12+30+2+19+11+79)

a) **Scientific Papers on ISI International Journals** (134):

2024

134. **Cantonati M.**, Armanini D.G., Demartini D., Papatheodoulou A., Bilous O.P., Colombo F., Angeli N., Stancheva R., Dörflinger G. & Manoylov K. 2024. Has climate change over the last ten years caused a banalisation of diatom communities in Cypriot streams? *Science of the Total Environment* **947**: 174495. DOI: 10.1016/j.scitotenv.2024.174495

133. Cid Rodríguez M., **Cantonati*** M., Spitale D., Galluzzi G. & Zacccone C. 2024. Using diatoms and physical and chemical parameters to monitor cow-pasture impact in peat cores from mountain mires. *Science of the Total Environment* **926**: 171779. DOI: 10.1016/j.scitotenv.2024.171779 [*Corresponding author]
132. Stancheva R., **Cantonati*** M., Manoylov K., Furey P.C., Cahoon A.B., Jones R.C., Gillevet P., Amsler C.D., Wehr J., Salerno J.L., Krueger-Hadfield* S.A. 2024. The importance of integrating phycological research, teaching, outreach, and engagement in a changing world. *Journal of Phycology*. DOI: [*Corresponding author]
131. **Cantonati** M., Angeli N., Bilous O., Ciugulea I., Lange-Bertalot H., Papatheodoulou A. & Saber A.A. 2024. Taxonomic and ecological characterization of three symmetric biraphid diatom species from streams in Cyprus. *Fottea* **24**(1): 85–98. DOI: 10.5507/fot.2023.012
130. Spitale D., Fezzi M., Zorzi N., Slomp E., Rigotti S., Borrini A., Bilous O.P. & **Cantonati** M. 2024. Macroinvertebrates but not diatoms are affected by streamflow alteration below hydropower diversions. *Ecohydrology* **xxx**: 2712. DOI: 10.1002/eco.2712
129. Pascual R., Piana L., Bhat S.U., Castro, P.F., Corbera J., Cummings D., Delgado C., Eades E., Fensham R.J., Fernández-Martínez M., Ferreira V., Filippini M., García G., Gargini A., Hopper S.D., Knapp L., Lewis I.D., Peñuelas J., Preece C., Resh V., Romero E., Samraoui B., Samraoui F., Segadelli S., Skoulikidis N.Th., Solak C.N., Solé J., Villholth K.G., Wani H.K., **Cantonati*** M. & Stevens L.E., 2024. The Cultural Ecohydrogeology of Mediterranean-Climate Springs: A Global Review with Case Studies. *Environments* **11**(6): 110. DOI: 10.3390/environments11060110 [*Corresponding author]
128. Cid Rodríguez M., **Cantonati*** M., Angeli N., Bilous O., Al-Harbi M., Lange-Bertalot H., Levkov Z., Piana L., Spitale D. & Saber A.A. 2024. The diatom genus *Navicula* in spring ecosystems, with description of *Navicula aquae-suavis* sp. nov. *Water*. In press. [*Corresponding author] [Special Issue Zelnik]
127. Saber A.A., Al-Mashhadany M.F.M., Hamid A., Gabrieli J., Tockner K., Alsaif S.S.A., Al-Marakeby A.A.M., Segadelli S., **Cantonati*** M. & Bhat S.U. 2024. Carcinogenic and Non-Carcinogenic Health Risk Evaluation of Heavy Metals in Water Sources of the Nubian Sandstone Aquifer in the El-Farafra Oasis (Egypt). *Water* **16**, 1649. DOI: 10.3390/w16121649 [*Corresponding author]

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126. Fensham R.J., Adinehvand R., Babidge S., **Cantonati** M., Currell M., Daniele L., Elci A., Galassi D.M.P., de la Hera Portillo Á., Hamad S., Han D., Jawadi H.A., Jotheri J., Laffineur B., Hind Mohammad A., Naqinezhad A., Navidtalab A., Nicoll K., Odeh T., Re V., Sanjuan B., Souza V., Stevens L.E., Tekere M., Tshibalo E., Silcock J., Webb J., van Wyk B., Zamanpoore M. & Villholth K.G. 2023. Fellowship of the Spring: an initiative to document and protect the world's oases. *Science of the Total Environment* **887**: 163936. DOI: 10.1016/j.scitotenv.2023.163936
125. Salehipour-Bavarsad F., Riahi* H., Shariatmadari Z., Heidari F., Nikulin A.Y., **Cantonati*** M. & Saber A.A. 2023. *Valeriella persica* sp. nov. (Chlorococcaceae, Chlorophyceae): A potential biodiesel feedstock from the hyper-arid desert soil in Yazd (Iran) revealing new diagnostic criteria for green coccoids. *Algal Research* **72**: 103141 (1-21). DOI: 10.1016/j.algal.2023.103141 [*Corresponding author]
124. Fernández-Martínez M., Barquín J., Bonada N., **Cantonati** M., Churro C., Corbera J., Delgado C., Dulsat-Masvidal M., García G., Margalef O., Pascual R., Peñuelas J., Preece C., Sabater F., Seiler H., Zamora-Marín J.M. & Romero E. 2023. Mediterranean springs: Keystone ecosystems and biodiversity refugia threatened by global change. *Global Change Biology* **00**, e16997. DOI: 10.1111/gcb.16997
123. Pérez-Burillo J., Jamoneau A., Passy S. I., Tison-Rosebery J., Blanco S., Borrini A., Boutry S., Budnick W. R., **Cantonati** M., Valente A. C., Delgado C., Dörflinger G., Gonçalves V., He S., Jyrkänkallio-Mikkola J., Kennedy B., Marquié J., Marques H., Papatheodoulou A. ... Soininen, J. (2023). Stream diatom community assembly processes in islands and continents: A global perspective. *Journal of Biogeography* **00**: 1–12. DOI: 10.1111/jbi.14761
122. **Cantonati** M., Casoria C., Gerecke R., Bilous O., Maisto G., Segadelli S., Spitale D., Steinbauer A., Vogel S. & Saber A.A. 2023. Diatom Indicators of Fluctuating/Intermittent Discharge from Springs in Two German Nature Conservation Areas. *Diversity* **15**, 915. DOI: 10.3390/d15080915
121. **Cantonati** M., Cid Rodríguez M., Rossi F. & Leira M. 2023. A simple and unexpensive method to gain diatom absolute abundances from permanent mounts in hydrobiological and paleoecological research. *Appl. Sci.* **13**, 6019. DOI: 10.3390/app13106019
120. Bilous O., Nezhytska I., Zhezherya V., Dubnyak S., Batog S., Kazantsev, T., Polishchuk, O., Zhezherya T., Leontieva T. & **Cantonati** M. 2023. Interactions between Aquatic Plants and Cyanobacterial Blooms in Freshwater Reservoir Ecosystems. *Water* **15**, 672. DOI: 10.3390/w15040672
119. Ravera S., Vizzini A., Totti C., Puglisi M., Azzella M.M., Battaglini A., Bernardo L., Bonini I., Calvia G., Cancellieri L., Cantonati M., De Giuseppe A.B., Fačková Z., Filibeck G., Galasso G., Galli R., Gheza G., Guttová A., Hafellner J., Isocrone D., Malíček J., Nascimbene J., Nimis P.L., Ongaro S., Pandeli G., Paoli L., Passalacqua N.G., Potenza G., Prosser F., Puntillo D., Rosati L., Rossi S., Rapaccini G., Sicoli G., Spitale D. & Trainito E. 2023. Notulae to the Italian flora of algae, bryophytes, fungi and lichens: 16. *Italian Botanist* **16**: 105–120. DOI:

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118. **Cantonati M.**, Hofmann G., Spitale D., Werum M., Lange-Bertalot H. 2022. Diatom Red Lists: important tools to assess and preserve biodiversity and habitats in the face of direct impacts and environmental change. *Biodiversity and Conservation* 25 pp. DOI: 10.1007/s10531-021-02339-9
117. Jamoneau A., Soininen J., Tison-Rosebery J., Boutry S., Budnick W.R., He S., Marquié J., Jyrkänkallio-Mikkola J., Pajunen V., Teittinen A., Tupola V., Wang B., Wang J., Blanco S., Borrini A., **Cantonati M.**, Clode Valente A., Delgado C., Gonçalves V., Kennedy B., Papatheodoulou A., Serafim A., Van de Vijver B. & Passy S.I. 2022. Stream diatom biodiversity in islands and continents—A global perspective on effects of area, isolation and environment. *Journal of Biogeography* 49(12): 2156–2168. DOI: 10.1111/jbi.14482
116. **Cantonati M.**, Lichtenwöhler K., Leonhardt G., Seifert L., Mustoni A., Hotzy R., Schubert E., Blattner L., Bilous O., Lotz A., Poschod B. & Gerecke R. 2022. Using Springs as Sentinels of Climate Change in Nature Parks North and South of the Alps: A Critical Evaluation of Methodological Aspects and Recommendations for Long-Term Monitoring. *Water* 14, 2843. DOI: 10.3390/w14182843
115. **Cantonati M.**, Bilous O., Spitale D., Angeli N., Segadelli S., Bernabè D., Lichtenwöhler K., Gerecke R. & Saber A.A. 2022. Diatoms from the spring ecosystems selected for the long-term monitoring of climate-change effects in the Berchtesgaden National Park (Germany). *Water* 14: 381. DOI: 10.3390/w14030381
114. Saber A.A., Bhat S.U., Hamid A., Gabrieli J.; Garamoon, H.; Gargini, A.; **Cantonati*** M. 2022. Chemical Quality and Hydrogeological Settings of the El-Farafra Oasis (Western Desert of Egypt) Groundwater Resources in Relation to Human Uses. *Appl. Sci.*, 12, 5606. DOI: 10.3390/app12115606 [*Corresponding author]
113. Saber A.A., Borrini A., Saber H., El-Sheekh M., Gontcharov A.A. & **Cantonati*** M. 2022. A marine invasive benthic diatom species [*Licmophora normaniana* (Greville) Wahrer, 1985] in an inland oasis mineral spring in Egypt. *BiolInvasions Records* 11(1): 13–22. DOI: 10.3391/bir.2022.11.1.02 [*Corresponding author]
112. Van de Vijver B., Williams D.M., Kusber W.-H., **Cantonati M.**, Hamilton P.B., Wetzel C.E. & Ector L. 2022. *Fragilaria radians* (Kützinger) D.M.Williams et Round, the correct name for *F. gracilis* (Fragilariaceae, Bacillariophyta): a critical analysis of this species complex in Europe. *Fottea* 22(2): 256–291. DOI: 10.5507/fot.2022.006
111. Van de Vijver B., Williams D.M., Schuster T.M., Kusber W.-H., **Cantonati M.**, Wetzel C.E. & Ector L. 2022. Analysis of the *Fragilaria rumpens* complex (Fragilariaceae, Bacillariophyta) with the description of two new species. *Fottea* 22(1): 93–121. DOI: 10.5507/fot.2021.018

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110. **Cantonati M.**, Zorza R., Bertoli M., Pastorino P., Salvi G., Platania G., Prearo M. & Pizzul E. 2021. Recent and subfossil diatom assemblages as indicators of environmental change (including fish introduction) in a high-mountain lake. *Ecological Indicators* 125, 107603. DOI: 10.1016/j.ecolind.2021.107603
109. **Cantonati**, Fensham R.J., Stevens L.E., Gerecke R., Glazier D.S., Goldscheider N., Knight R.L., Richardson J.S., Springer A.E. & Tockner K. 2021. Urgent plea for global protection of springs. *Conservation Biology* 35(1): 378–382. DOI: 10.1111/cobi.13576
108. Charles D.F., Kelly M.G., Stevenson R.J., Poikane S., Theroux S., Zgrundo A. & **Cantonati M.** 2021. Benthic-algae assessments in the EU and the US: striving for consistency in the face of great ecological diversity. *Ecological Indicators* 121, 107082. DOI: 10.1016/j.ecolind.2020.107082
107. Saber A.A., Gontcharov A.A., Niku-lin A.Y., Nikulin V.Y., Rayan W.A. & **Cantonati*** M. 2021. Integrative Taxonomic, Ecological and Genotyping Study of Charophyte Populations from the Egyptian Western-Desert Oases and Sinai Peninsula. *Plants* 10, 1157. DOI: 10.3390/plants10061157 [*Corresponding author]
106. Saber A.A., Angeli N., Lange-Bertalot H., Kociolek J.P., Spitale D., Charles D.F. & **Cantonati*** M. 2021. Rise of subgen. *Rhoicosphenula* Lange-Bertalot to the genus level, and description of a new *Gomphosphenia* s.s. species from Puerto Rico. *Cryptogamie, Algologie* 42(13): 217–229. DOI: 10.5252/cryptogamie-algologie2021v42a13. [*Corresponding author]
105. Schütz W., Kelly M.G., King L. & **Cantonati*** M. 2021. Did zebra mussel fill the type habitat of a worldwide-rare freshwater brown macroalga? *Aquatic Conservation: Marine and Freshwater Ecosystems* 31: 3657–3659. DOI: 10.1002/aqc.3731 [*Corresponding author]
104. **Cantonati M.**, Bilous O., Angeli N., Van Wensen L. & Lange-Bertalot H. 2021. Three new diatom species from spring habitats in the northern Apennines (Emilia-Romagna, Italy). *Diversity* 13, 549. DOI: 10.3390/d13110549
103. Hájek M., Jiménez-Alfaro B., Hájek O., Brancaleoni L., **Cantonati M.**, Carbognani M., Dedić A., Dítě D., Gerdol R., Hájková P., Horsáková V., Jansen F., Kamberović J., Kapfer J., Kolari T.H.M., Lamentowicz M., Lazarević P., Mašić E., Moeslund J.E., Pérez-Haase A., Peterka T., Petraglia A., Pladevall-Izard E., Plesková Z., Segadelli S., Semeniuk Y., Singh P., Šimová A., Šmerdová E., Tahvanainen T., Tomaselli M., Vystavna Y., Biță-Nicolae C. & Horsák M. 2021. A European map of groundwater pH and calcium. *Earth Syst. Sci. Data* 13: 1089–1105. DOI: 10.5194/essd-13-1089-2021

102. **Cantonati M.**, Angeli N., Arnaud E., Galbiati M., Soróczyki-Pintér É., Lange-Bertalot H. 2021. A new *Brachysira* species from mountain lakes in northern Italy and Corsica. *Diatom Research* **36**(3): 281–290. DOI: 10.1080/0269249X.2021.1982778
101. Pissaridou P., **Cantonati M.**, Bouchez A. Tziortzis I., Dörflinger G. & Vasquez M.I. 2021. How can integrated morphotaxonomy- and metabarcoding-based diatom communities' analyses best contribute to the ecological assessment of streams. *Metabarcoding and Metagenomics* **5**: 111–120. DOI: 10.3897/mbmg.5.68438.
100. Soininen J., Tupola V., Voutilainen I., **Cantonati M.** & Teittinen A. 2021. Diatom biogeography in freshwaters – new insights from between-region comparisons and the role of unmeasured environmental factors. *Diatom Research*. **36**(3): xxx–xxx. DOI: 10.1080/0269249X.2021.1999859

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99. **Cantonati M.**, Kelly M.G., Demartini D., Angeli N., Dörflinger G., Papatheodoulou A. & Armanini D. 2020. Overwhelming role of hydrology-related variables and river types in driving diatom species distribution and community assemblage in streams in Cyprus. *Ecological Indicators* **117**, 106690. DOI: 10.1016/j.ecolind.2020.106690
98. **Cantonati M.**, Stevens L.E., Segadelli S., Springer A.E., Goldscheider N., Celico F., Filippini M., Ogata K. & Gargini A. 2020. Ecohydrogeology: The interdisciplinary convergence needed to improve the study and stewardship of springs and other groundwater-dependent habitats, biota, and ecosystems. *Ecological Indicators* **110**. DOI: 10.1016/j.ecolind.2019.105803  **Highly Cited Paper**
97. **Cantonati M.**, Segadelli S., Spitale S., Gabrieli J., Gerecke R., Angeli N., De Nardo M.T., Ogata K. & Wehr J.D. 2020. Geological and hydrochemical prerequisites of unexpectedly high biodiversity in spring ecosystems at the landscape level. *Science of the Total Environment* **740**, 140157. DOI: 10.1016/j.scitotenv.2020.140157
96. Paul M.J., Jessup B., Brown L.R., Carter J.L., **Cantonati M.**, Charles D.F., Gerritsen J., Herbst D.B., Stancheva R., Howard J., Isham B., Lowe R., Mazor R., Mendez P.K., Ode P., O'Dowd A., Olson J., Pan Y., Rehn A.C., Spaulding S., Sutula M., Theroux S. 2020. Characterizing benthic macroinvertebrate and algal Biological Condition Gradient models for California wadeable streams, USA. *Ecological Indicators* **117**, 106618. DOI: 10.1016/j.ecolind.2020.106618
95. **Cantonati M.**, Poikane S., Pringle C.M., Stevens L.E., Turak E., Heino J., Richardson J.S., Bolpagni R., Borrini A., Cid N., Čtvrtlíková M., Galassi D.M.P., Hájek M., Hawes I., Levkov Z., Naselli-Flores L., Saber A.A., Di Cicco M., Fiasca B., Hamilton P.B., Kubečka J., Segadelli S., Znachor P. 2020. Characteristics, Main Impacts, and Stewardship of Natural and Artificial Freshwater Environments: Consequences for Biodiversity Conservation. *Water* **12**: 260. DOI: 10.3390/w12010260 [with 3322 views among the 'Top 5 viewed papers' of the journal *Water* in 2020]



94. Segadelli S., Grazzini F., Adorni M., De Nardo M.T., Fornasiero A., Chelli A. & **Cantonati M.** 2020. Predicting Extreme-Precipitation Effects on the Geomorphology of Small Mountain Catchments: Towards an Improved Understanding of the Consequences for Freshwater Biodiversity and Ecosystems. *Water* **12**: 79. DOI: 10.3390/w12010079
93. Taxböck L., Karger D.N., Kessler M., Spitale D. & **Cantonati M.** 2020. Diatom species richness in Swiss springs increases with habitat complexity and elevation. *Water* **12**: 449. DOI: 10.3390/w12020449
92. Saber A.A., El Beley E.F., El-Refaey A.A., El-Gamal A.D., Blanco S. & **Cantonati M.** 2020. *Seminavis aegyptiaca* sp. nov., a new amphoroid diatom species from estuary epilithon of the River–Nile Damietta Branch, Egypt. *Fottea* **20**(1): 49–57. DOI: 10.5507/for.2019.015

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91. Poikane S., Zohary T., **Cantonati M.** 2019. Assessing the ecological effects of hydromorphological pressures on European lakes. *Inland Waters*. DOI: 10.1080/20442041.2019.1654800

90. Bolpagni R., Poikane S., Laini A., Bagella S., Bartoli M. & **Cantonati** M. 2019. Ecological and Conservation Value of Small Standing-Water Ecosystems: A Systematic Review of Current Knowledge and Future Challenges. *Water* **11**: 402. DOI: 10.3390/w11030402
89. Lai G.G., Burato S., Padedda B.M., Zorza R., Pizzul E., Delgado C., Lugliè A. & **Cantonati** M. 2019. Diatom Biodiversity in Karst Springs of Mediterranean Geographic Areas with Contrasting Characteristics: Islands vs Mainland. *Water* **11**: 2602. DOI: 10.3390/w11122602
88. Lai G.G., Padedda B.M., Ector L., Wetzel C.E., Lugliè A. & **Cantonati** M. 2019. Mediterranean karst springs: Diatom biodiversity hotspots under the pressure of hydrological fluctuations and nutrient enrichment. *Plant Biosystems*. DOI: 10.1080/11263504.2019.1674402
87. Kamberović J., Plenković-Moraj A., Kralj Borojević K., Gligora Udovič M., Žutinić P., Hafner D. & **Cantonati** M. 2019. Algal assemblages in springs of different lithologies (ophiolites vs. limestone) of the Konjuh Mountain (Bosnia and Herzegovina). *Acta Botanica Croatica* **78**(1): 66–81. DOI: 10.2478/botcro-2019-0004
86. **Cantonati** M., Angeli N. & Lange-Bertalot H. 2019. Three new *Fragilaria* species (Bacillariophyta) from low-conductivity mountain freshwaters of the Alps and the Apennines. *Phytotaxa* **404**(6): 261–274. DOI: 10.11646/phytotaxa.404.6.5
85. **Cantonati** M., Angeli N., Lange-Bertalot H. & Levkov Z. 2019. New *Amphora* and *Halamphora* (Bacillariophyta) species from springs in the northern Apennines (Emilia-Romagna, Italy). *Plant Ecology and Evolution* **152**(2): 285–292. DOI: 10.5091/plecevo.2019.1605
84. Ciugulea I., Burroughs S., Defrancesco C., Spitale D., Charles D.F., Lange-Bertalot H., **Cantonati*** M. 2019. *Adlafia neoniana* (Naviculaceae), a new diatom species from forest streams in Puerto Rico. *Plant Ecology and Evolution* **152**(2): 378–384. [*Corresponding author] DOI: 10.5091/plecevo.2019.1616
83. Lai G.G., Padedda B.M., Wetzel C.E., **Cantonati** M., Sechi N., Lugliè A. & Ector L. 2019. Diatom assemblages from different substrates of the Casteldoria thermo-mineral spring (Northern Sardinia, Italy). *Botany Letters* **166**(1): 14–31. DOI: 10.1080/23818107.2018.1466726



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82. Saber A.A., Fučíková K., McManus H.A., Guella G. & **Cantonati** M. 2018. Novel green algal isolates from the Egyptian hyper-arid desert Oases: a polyphasic approach with a description of *Pharao desertorum* gen. et sp. nov. (Chlorophyceae, Chlorophyta). *Journal of Phycology* **54**: 342–357. DOI: 10.1111/jpy.12645
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Special Issue "Multiplicity, Characteristics, Main Impacts, and Stewardship of Natural and Artificial Freshwater Environments: Consequences for Biodiversity Conservation"

Special Issue Editors

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https://www.mdpi.com/journal/water/special_issues/freshwater_biodiversity_conservation

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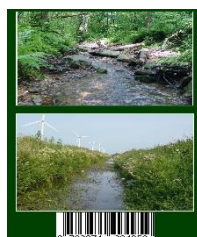
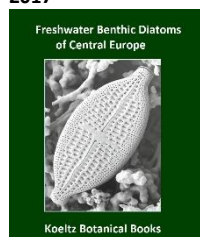
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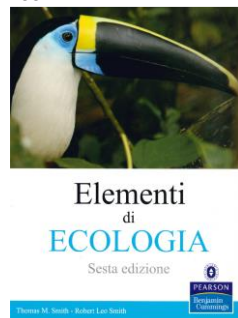
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11. Boscaini A. & M. **Cantonati**, 2002 – 1. Morfometria – In: **Cantonati M.**, Tolotti M. & M. Lazzara (a cura di), I laghi del Parco Naturale Adamello-Brenta. *Documenti del Parco*, 14: 13-67.
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h) **Congress Abstracts – Oral presentations** (only those referring to works not published *in extenso* in the Proceedings) (112):

2024

112. **Cantonati M.**, Bolpagni R., Geist J., Hawes I., Levkov Z., Hamilton P.B., Poikane S., Zohary T. 2024. The fundamental contribution of lakes to global fresh waters and to the conservation of their biodiversity and ecosystem services. *7th European Congress of Conservation Biology "Biodiversity positive by 2030"*. June 17th-21st 2024 – Bologna, Italy.
111. **Stevens L.E.**, Holway J.H., Fensham R.J., de la Hera Portillo A., Glazier D.S., Segadelli S., Ledbetter J.D., **Cantonati M.** 2024. The demise of springs: A silent global crisis. *7th European Congress of Conservation Biology*. Symp. 156-1 (Chair: **Cantonati M.**). June 17th-21st, Bologna, Italy.

110. Manoylov K., Cantonati M., Fenoglio S. & Richardson J. 2024. Rivers: critically important for nature and people but increasingly stressed by many impacts. *7th Europ. Cong. Cons. Biol. Symp.* 156-1 (Chair: Cantonati M.). June 17-21, Bologna, Italy.
 109. Cid-Rodríguez M., Cantonati M., Spitale D., Galluzzi G. & Zaccone C. 2024. Impact of cattle grazing on alpine mires as recorded by peat properties and diatoms: Insights for a sustainable conservation. *7th Europ. Cong. Cons. Biol. Symp.* 156-2 (Chair: Cantonati M.). June 17-21, Bologna, Italy.
 108. Bezdíčková V., Zaccone C., Spitale D., Sinatra M., Agostini A., Hájek M., Chittová B. & Cantonati M. 2024. Diatoms from the Mire of Fivè: Their contribution to a multidisciplinary study to assess the conservation biology problems of the mire. *7th Europ. Cong. Cons. Biol. Symp.* 156-2 (Chair: Cantonati M.). June 17-21, Bologna, Italy.
 107. Tromboni F., Lorke A., Mendoza-Lera C., Berra G., Piana L. & Cantonati M. 2024. The functional role of spring-ecosystem biodiversity. *7th Europ. Cong. Cons. Biol. Symp.* 156-2 (Chair: Cantonati M.). June 17-21, Bologna, Italy.
 106. Bellino A., Baldantoni D., Cantonati M., Hamed A.F., El-Tablawy N.H. & Saber A.A. 2024. Ecological plasticity of charophytes across a latitudinal gradient (southern Italy-Egypt) and its implications for conservation. *7th Europ. Cong. Cons. Biol.* June 17-21, Bologna, Italy.
 105. Piana L., Pascual R., Filippini M., Gargini A., Segadelli S., Stevens L. & Cantonati M. 2024. Cultural aspects related to Mediterranean springs and their reflections in the stewardship and management of these unique but fragile ecosystems. *7th Europ. Cong. Cons. Biol. Symp.* 156-2 (Chair: Cantonati M.). June 17-21, Bologna, Italy.
 104. Cantonati M., Glazier D.S., Wehr J., Fensham R., Tockner K. & Stevens L. 2024. Springs and connectivity among people and ecosystems. *Society for Freshwater Science Annual Meeting - Connecting to Enhance Freshwater Science*. S19 *Connecting to Foster Understanding and Conservation of Spring Ecosystems* (Chairs: Cantonati, Glazier & Wehr). Philadelphia, PA, USA. June 2-6.
 103. Stancheva Christova R., Piana L., Manoylov K. & Cantonati M. 2024. The diatom genus *Cocconeis* in spring ecosystems, with description of a new species from the Berchtesgaden National Park (Germany). *SFS Annual Meeting*. S19 (Chairs: Cantonati et al.). Philadelphia, PA, USA. June 2-6.
 102. Tromboni F., Lorke A., Mendoza-Lera C., Grossart H.-P., Bernal S., Bertuzzo E., Berra G., Piana L. & Cantonati M. 2024. CO₂ concentrations in Alpine spring-fed streams. *SFS Annual Meeting*. S19 (Chairs: Cantonati et al.). Philadelphia, PA, USA. June 2-6.
 101. Cid-Rodríguez M., Cantonati M., Spitale D., Galluzzi G. & Zaccone C. 2024. Cow-pasture impact in Alpine mires as recorded by peat properties and diatoms. *XXII Congress of the Iberian Association of Limnology "Aquatic Ecosystems Under Threat: Advancing Our Knowledge to Mitigate the Effects of Global Change, Promote Adaptive Management, and Engage Citizens"*. Vigo, Spain. 23-28 June 2024.
 100. Sinatra M., Cantonati M., Galluzzi G., Avesani M., Bezdíčková V., Zapparoli G., Spitale D., Agostini A. & Zaccone C. 2024. An attempt to reconstruct the history of the most ancient European farming community using peat cores from the Fivè mire. *Centennial Celebration and Congress of the International Union of Soil Sciences*. Firenze, Italy. 19-21/05/2024.
- 2023
99. Cantonati M., Angeli N., Bilous O., Ciugulea I., Lange-Bertalot H., Papatheodoulou A. & Saber A.A. 2023. Taxonomic and ecological characterization of three symmetric biraphid diatom species from streams in Cyprus. *14th European Diatom Meeting*. 9 May - 11 May 2023. Meise Botanic Garden, Belgium.
 98. Manoylov K. M., Stancheva R., Cantonati M. 2023. Understanding the invisible - population and community ecology of algae from Mediterranean streams on two continents. Symposium 4: Taxonomy, ecology and conservation of Mediterranean marine and freshwater algae. *XVII OPTIMA Meeting* (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area), Erice, Italy Sept 20-23 2023 (invited).
 97. Cid Rodríguez M., Bilous O., Dörflinger G., Lange-Bertalot H., Papatheodoulou A., Saber A.A., Spitale D., Cantonati M., 2023. New taxonomic and ecological data on new-to-science, rare and insufficiently known *Nitzschia* species (Bacillariophyta) from the Island of Cyprus. Symposium 4: Taxonomy, ecology and conservation of Mediterranean marine and freshwater algae. *XVII OPTIMA Meeting* (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area), Erice, Italy Sept 20-23 2023 (invited).
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96. Cantonati M., Filippini M., Gargini G. & Segadelli S. 2022. Investigating present and past mountain freshwater ecosystems in the Alps and the Northern Apennines. *International Mountain Conference #IMC22* September 11-15 2022.
 95. Saber A.A., Hamed A.F., Hauerová R., Štenclová L., Mareš J., Cantonati M. & Nosair H.R. 2022. *Desertinostoc kobbiae* gen. et sp. nov., a new cryptic *Nostoc*-like genus (Nostocaceae, Cyanobacteria) isolated from desert soil crusts (Siwa Oasis, Egypt). *22nd Symposium of the International Association of Cyanophyte/Cyanobacteria Research*. Abstract Book: 28. August 14-18, 2022 in České Budějovice, Czech Republic.
 94. Bellamoli F., Latella L., Cantonati M., Calgaro M., Laiti C., Cazzaniga S., Vitulo N. & Ballottari M. 2022. Chlorophyll-f-producing cyanobacterial communities in selected karst caves of the Lessini Mountains (Verona, Italy). *22nd Symposium of the International Association of Cyanophyte/Cyanobacteria Research*. Abstract Book: 3. August 14-18, 2022 in České Budějovice, Czech Republic.
 93. Bellamoli F., Latella L., Cantonati M., Calgaro M., Laiti C., Cazzaniga S., Vitulo N. & Ballottari M. 2022. Chlorophyll-f-producing cyanobacterial assemblages in selected karst caves of the Lessini Mts (Italy). *International Congress on Photosynthesis Research 2022*. Hybrid at the Dunedin Centre, New Zealand. Virtual
 92. Cantonati M., Cid Rodríguez M., Angeli N. & Spitale D. 2022. Diatoms as indicators of the effects of enhanced water-level fluctuations (artificial-snow production) in high ecological integrity high-mountain lakes of the south-eastern Alps. *36th Congress of the International Society of Limnology*, Abstract Book: ON141. Berlin, 7-10 August 2022.
 91. Cid Rodríguez M., Zaccone C., Spitale D., Galluzzi G., Rossi F., Cantonati M. 2022. Cattle-grazing effects on diatom assemblages and physical and chemical parameters in peat cores from Alpine mires. *36th Congress of the International Society of Limnology*, Abstract Book: ON140. Berlin, 7-10 August 2022.
 90. Bilous O., Angeli N., Cid Rodríguez M., Dörflinger G., Lange-Bertalot H., Papatheodoulou A., Saber A.A., Spitale D., Cantonati M. 2022. Taxonomic and ecological characterization of new and poorly-known *Nitzschia* (Bacillariophyta) species from the Island of Cyprus. *36th Congress of the International Society of Limnology*, Abstract Book: ON313. Berlin, 7-10 August 2022.
 89. Cantonati M., Fensham R.J., Glazier D.S., Filippini M., Segadelli S., Gargini A., Goldscheider N., Knight R.L., Muotka T., Spitale D., Springer A.E., Tockner K. Wehr J.D. & Stevens L.E. 2022. Preventing silent springs: why spring ecosystems should be protected across the globe. *Joint Aquatic Sciences Meeting* (IASM = 9 aquatic Societies meeting together). Grand Rapids, MI, USA, May 14–20, 2022. (on site) (1056)
 88. Saber A.A., Blanco S., Borriani A., Ciugulea I., Lange-Bertalot H., Cantonati M. 2022. Revisiting the taxonomic assignment of *Gomphosphenia* (subgen. *Costericardia*) *oahuensis* (Hust.) Lange-Bertalot. *Joint Aquatic Sciences Meeting* (IASM = 9 aquatic Societies meeting together). Grand Rapids, MI, USA, May 14–20, 2022. (Virtual) (2041)
 87. Cid Rodríguez M., Cantonati M., Spitale D. & Zaccone C. 2022. Impact of cattle grazing on peat properties and diatoms. *European Geosciences Union General Assembly 2022 (EGU22)*. 03-08/04/2022. DOI: 10.5194/egusphere-egu22-9910
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86. Cantonati M., Spitale D., Donini E., Galluzzi G., Angeli N. & Zaccone C. 2021. Using diatoms and physical and chemical parameters to unveil cow-pasture impact in peat cores from a mountain mire in the south-eastern Alps. *European Geosciences Union General Assembly 2021 (vEGU21: Gather Online)*. 19-30/04/2021. DOI: 10.5194/egusphere-egu21-7430
 85. Pissaridou P., Bouchez A., Vasquez Hadjilyra M., Vasselon V., Christou A., Chonova T., Drakou K., Rimet F., Cantonati M., Dörflinger G., Tziortzis I., 2021. Morphotaxonomy- and metabarcoding-based ecological assessment of Cyprus streams' diatom communities and correlation with environmental and anthropogenic influences. *DNAQUA International Conference* 9-11/03/2021. Organizers: DNAqua-Net COST Action & INRAE. *ARPHA Conference Abstracts (ACA)* 4: e64962. DOI: 10.3897/aca.4.e64962
 84. King L., Cantonati M. & Schütz W. 2021. Diatom depth distribution in Lake Constance. *13th European Diatom Meeting (Online)*. Organizer: Amgueddfa Cymru - National Museum Wales, Cardiff. March 3rd 2021.
- 2019
83. Cantonati M., Charles D.F., Kelly M.G., Lowe R., R.D. Mazor, Poikane S., Spaulding S., Theroux S. & Zgrundo A. 2019. A comparison of benthic-algae-based environmental assessments in the European Union and the United States. *Use of Algae for Monitoring Rivers and Comparable Habitats* (10th UAMRICH). Special Session SS4 at the *Symposium for European Freshwater Sciences (SEFS11)*. Zagreb. Croatia. Abstract Book (M. Sertić Perić, M. Miliša, R. Gračan, M. Ivković, I. Buj, V. Mičetić Stanković Eds): 300. Publisher: Croatian Association of Freshwater Ecologists.
 82. Kamberović J., Spitale D., Segadelli S., Dedić A. & Cantonati M. 2019. Looking for ecological indicators in springs in the Alps and Dinarides with special attention to the ophiolitic substratum. *Use of Algae for Monitoring Rivers and Comparable Habitats* (10th UAMRICH). Special Session SS4 at the *Symposium for European Freshwater Sciences (SEFS)*. Zagreb. Croatia. Abstract Book (M. Sertić Perić, M. Miliša, R. Gračan, M. Ivković, I. Buj, V. Mičetić Stanković Eds): 306. Publisher: Croatian Association of Freshwater Ecologists.
 81. Saber A.A., Angeli N. & Cantonati M. 2019. Unveiling the hidden and understudied biodiversity of benthic algae in Egyptian desert springs and other inland habitats

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80. Cantonati M. 2018. Indicators of water-level fluctuations in the littoral of natural and artificial lakes: from molecules to assemblage features. *Congress Internat. Society Limnology*. SIL, Aug. 19-25 Nanjing (China). Special Session S5. Ecological impacts of water-level fluctuations (WLF). Book of Abstracts: 183-184.
79. Gerecke R. & Cantonati M. 2018. Collecting biota in spring habitats: A proposal for a sustainable methodology in long-term monitoring studies. *ForumAlpinum 2018 & 7th Water Conference: Alpine water – common good or source of conflicts?* June 4-6 2018. Breitenwang (Austria). Conference Proceedings edited by Edited by L. Füreder, R. Weingartner, K. Heinrich, V. Braun, G. Köck, K. Lanz, T. Scheurer: 32.
- 2017
78. Charles D.F., Cantonati M. & Boylan P. 2017. Quality assurance assesment of replicate diatom counts: lessons from review of 800 comparisons. *North American Diatom Symposium* (24th NADS), Sept. 27-Oct. 1 2017, Ohio State University's Stone Laboratory on Gibraltar Island in Lake Erie.
77. Saber A.A., Gontcharov A.A. & Cantonati M. 2017. Confirmation of the occurrence in north-eastern Africa and novel morphotaxonomic feature of the rare charophyte *Chara globata*. 1st International Conference of Faculty of Science, Ain Shams University. Hurghada, Egypt. October 24-27th 2017.
76. Saber A.A. Gontcharov A.A. & Cantonati M. 2017. Molecular phylogeny and morphotaxonomic analysis of some *Chara* populations (Charales) from ecologically different Egyptian habitats. 13th Conf. Egyptian Society of Experimental Biology. February 25th 2017.
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75. Niedrist G., Füreder L. & Cantonati M. 2016. Securing food in harsh environments needs toughness and adaptation: Feeding habits of chironomids in alpine streams. Aug. 1-5 Turin. *Meeting der SIL-Austria und der Deutschen Limnologischen Gesellschaft*. Book of Abstracts: xx.
74. Cantonati M., Stancheva R., Armanini D., Angeli N., Busse, B.L., Dörflinger G., Fetscher A.E., Kelly M.G., Kociolek J.P., Sheath G.R., Spitale D. & Lange-Bertalot H. 2016. Mediterranean-climate streams diatom biodiversity: indications from environmental-assessment studies in two geographically-distant areas. 24th *International Diatom Symposium* (August 21–27 2016, Québec City, Canada). Session 6A Diatom-biogeography and species traits (Chair: J. John). *Abstract Book*: xx.
73. Cantonati M., Gerecke R., Stevens L.E. & Wehr J.D. 2016. State of play more than 50 years after the recognition of spring biology. Aug. 1-5 Turin. *Congress Internat. Society Limnology*. Special Session 36. Springs: Well-known groundwater resources, disregarded biodiversity hotspots. Book of Abstracts: xx.
72. Stevens L.E., Ledbetter J.D., Springer A.E. & Cantonati M. 2016. Springs ecosystem ecology and stewardship: Neglect has created a global environmental crisis. Aug. 1-5 Turin. *Congress Internat. Society Limnology*. Special Session 36. Springs: Well-known groundwater resources, disregarded biodiversity hotspots. Book of Abstracts: xx.
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Service (Management, Committees, Panels etc.) & Professional Experience: •

Service for the broader scientific community:

- **Member of steering committees of three scientific societies** (ISDR, IPS, SFS).
- **Ad hoc reviewer** for **101 different journals**.
- Extensive **Project proposal reviewing activities in several Countries**.

Administration work, in particular for the **management** of the **Limnology & Phycology Section** (research, collections, educational activities). • **Scientific Committee** of the *Museo Tridentino di Scienze Naturali* and of the journal *Studi Trentini di Scienze Naturali* (1995-2005). • **Management Committee** of the *Adamello-Brenta Nature Park* (1996-2016). • 03/11/2020: Selected to serve on the **NEON (National Ecological Observatory Network) Technical Working Groups** (TWGs) 'Aquatic Biology' (2021-ongoing), 'Algal Taxonomy' (2020-2021). • **GMBA 'Working group on aquatic mountain biodiversity', Global Mountain Biodiversity Assessment network** (2021-ongoing). • **Panel of experts EuregioLab 2018 (Natural risks and biodiversity management in times of climate change)** for the **European Region Tyrol-South Tyrol-Trentino** (2017-2018; Topic 3: Biodiversity and Ecosystem Services). • **Panel of experts** in charge for developing a **National Adaptive Strategy (SNA) to Environmental and Climate Change** for the **Italian Ministry for the Environment** (2012; topic: Biodiversity and Ecosystems. Aquatic Ecosystems; Chair: Prof. Pierluigi Viaroli, University of Parma). • **Panel of experts 'Internationale Arbeitsgruppe Alpenquellen' (Harmonisation of long-term monitoring in springs of the Alps as sentinels of climate change)** for the **Bavarian Ministry of the Environment** (2018-ongoing). • **Selection Committees for staff employment** (permanent positions): 5 Technical Assistants (including one for Limnology & Phycology) for the Trentino Nature & Science Museum – August 2008; 2 Technical Assistants (Vertebrate Zoology and Prehistory) for the Nature & Science Museum – December 2012.

Terza Missione (TM) - Public Engagement (PE) (Press releases, Interviews, Events etc.): •

Press releases & interviews (TV, radio, local newspapers, national & international magazines) on freshwater-science topics: Acidification risk in high-elevation lakes, Lake Tovel (reddening, limnogenesis, water-level fluctuations), taxa new to science in springs.

Iniziative di valorizzazione, consultazione e condivisione della ricerca

- Festival delle Acque di Comano Terme (TN) "Gamberi", 6-8/09/2024. Riunione con membri del Comitato Scientifico e partecipazione ad attività selezionate del Festival (in particolare la proiezione di *Verso la sorgente*).
- Protagonista e narratore di parti di un documentario sul Fiume Sarca dalla foce alle sorgenti (documentario: *Verso la sorgente. La Sarca, dalla foce al ghiacciaio*; regia: R. Bonazza e L. Stoffella) presentato al Trento Film Festival nel 2024.
- Comitato Scientifico del Festival delle Acque di Comano Terme (TN) "Gamberi", 1-3/09/2023.
- Participation in several European Researchers' Nights (MUSE in Trento, from 2010 to 2017 with scientific corners etc.) and Members' Nights (2016, ANS Drexel, Philadelphia, PA, USA).



Seminari, conferenze, tavole rotonde, dibattiti (15)

15. *Le sorgenti: fondamentali fonti d'acqua ma anche scrigni di biodiversità ed ecosistemi chiave*. WETalk di MC nell'ambito del Festival delle Acque di Comano Terme (TN) "Gamberi", 1-3/09/2023.



14. *Biodiversità delle acque dolci ed indicatori del cambiamento climatico*. Intervento di MC nell'ambito dei 'Mini-seminari BiGeA-UniBO sul cambio climatico' per la Scuola Cantonale di Commercio di Bellinzona (Svizzera). Organizzatore: Prof. A. Gargini, Bologna, 10/03/2023.
13. *Spring habitats as living repositories of biodiversity*. *Diatom Web Academy*. Webinar series organized by the *Diatom Taxonomic Certification Committee (TCC)*, Diatoms of North America (DONA). January 31st 2023
12. Cantonati M., 2012. *Workshop on the ecology of the lake littoral (L. Molveno & L. Tovel)* – Staff involved in pedagogical and educational activities of the Adamello-Brenta Nature Park (11-06-2012).

11. Cantonati M., 2009. 3. *Internationale Quellwoche im Nationalpark Gesäuse*. [invited] 12.07-20.07.2009. National Park Research Program – LIFE Project
 10. Cantonati M., 2009. Le sorgenti e i laghi di montagna del Trentino. Società degli Alpinisti Tridentini (Trentino Section of the Italian Alpine Club) – Commissione TAM (Tutela Ambiente Montano) (Mountain Environments Protection Commission) – Corso sugli Habitat Acquatici (Course on Aquatic Habitats) S. Antonio Mavignola and Vallesinella (Adamello-Brenta Natural Park, TN). 20-06-2009.
 9. Cantonati M., 2009. I laghi di montagna del Trentino. Società degli Alpinisti Tridentini (Trentino Section of the Italian Alpine Club) – Fondo (TN). Gruppo giovani e accompagnatori (14-03-2009).
 8. *Stand der biologischen Forschung an Quellen*. Abschlussstagung LIFE-Natur-Projekt „Kalktuffquellen in der Frankenalb“. LBV-Umweltstation Altmühlsee, Muhr am See, 16-17 Ottobre 2007.
 7. Cantonati M., 2005 – Spring research in the Limnology and Phycology Section of the Museo Tridentino di Scienze Naturali with special attention to the CRENODAT Project - 2. *Internationaler Workshop “Karstwassermanagement und alpine Schutzgebiete”*. June 09-10/06/2005. Johnsbach, Nationalpark Gesäuse (Austria).
 6. Cantonati M., 2005 – Spring research in the Limnology and Phycology Section of the Museo Tridentino di Scienze Naturali - Workshop “Aktionsprogramm Quellen: Stand und Perspektiven”. September 12-13/09/2005. Muhr am See (Germany).
 5. *Wasserscheitum Alpen? Ressourcen-Reichtum und was wir damit anfangen. Mineralwasser, warme Quellen, neue Bäder*. Contribution to round-table discussion. *Interventionen 98 - Die Alpen Visionen für einen Lebensraum- Das Wasser*. Stams (Austria) 1-3/10/1998
 4. Cantonati M. 1998. Quellforschung in der MTSN Limnologie und Phykologie Abteilung: Aktualisierung. *Internationale Quellwoche im Nationalpark Berchtesgaden*. [invited]
 3. *Das ökologisch Gute und Böse: Dazwischen die Alpen - Haben wir die bessere Natur oder nur die falsche Vorstellung von ihr?* Contribution to round-table discussion. *Interventionen 97 - Die Alpen Visionen für einen Lebensraum*. Stams (Austria) 9-11/10/1997
 2. Cantonati M. 1997. Quellforschung in der MTSN Limnologie und Phykologie Abteilung. *Internationale Quellwoche im Nationalpark Berchtesgaden*. [invited]
 1. Cantonati M. 1996. Le Diatomee: un mondo di vetro (1996, Ghislieri College, Pavia) [invited]
- [Poster](#)
- Cantonati M. & N. Angeli, 2008. La biodiversità nascosta del Parco Naturale Adamello-Brenta: specie e generi nuovi per la scienza scoperti negli habitat sorgivi (Progetto CRENODAT). *Convegno “Pianificazione e gestione della biodiversità nelle aree protette alpine: esperienze a confronto”*. 27-28 novembre 2008. Trento. Provincia Autonoma di Trento – Servizio Conservazione della Natura e Valorizzazione Ambientale.
- Cantonati M., Tardio M., Spitale D. & N. Angeli, 2008. Ricerche ecologiche di lungo corso e biodiversità acquatica per il monitoraggio dei cambiamenti climatici e ambientali. Il Progetto ACQUA_TEST-PNAB. *Convegno “Pianificazione e gestione della biodiversità nelle aree protette alpine: esperienze a confronto”*. 27-28 novembre 2008. Trento. Provincia Autonoma di Trento – Servizio Conservazione della Natura e Valorizzazione Ambientale.
- Cantonati M., Angeli N., Lazzara M., Filippi M. & S. Frisia, 2003 - I sedimenti di laghi del Trentino: utili archivi per la ricostruzione delle variazioni ambientali e climatiche - *XIII Congresso Nazionale Società italiana di Ecologia: “Ecologia Quantitativa: metodi sperimentali, modelli teorici, applicazioni”*. Como. 8-10 settembre 2003. *Programma e riassunti* (a cura di R. Casagrandi & P. Melià): 88-89.
- Tardio M. & M. Cantonati, 2003 - La nuova stazione limnologica del Museo Tridentino di Scienze naturali al lago di Tovel - *XIII Congresso Nazionale Società italiana di Ecologia: “Ecologia Quantitativa: metodi sperimentali, modelli teorici, applicazioni”*. Como. 8-10 settembre 2003. *Programma e riassunti* (a cura di R. Casagrandi & P. Melià): 86.
- Cantonati M., Lazzara M., Tolotti M., Bertuzzi E. & M. Tardio, 2002 – A book to document the ecological condition of the high mountain lakes of the Adamello-Brenta Natural Park (Trentino, Italy) – *Forum alpinum, Die Natur der Alpen*. 23-27 September. Alpbach (Austria).
- Cantonati M., Lencioni V., Maiolini B., Tagnin L. & M. Tolotti, 1999 (2000) - Il Museo Tridentino di Scienze Naturali studia le Alpi: AASER (Arctic and alpine stream ecosystem research) – *Atti XI Congresso dell'Associazione Nazionale Musei Scientifici (ANMS), Napoli 1996. Museol. Sci. - Suppl.*, 16(1): 85-92.

Pubblicazioni (cartacee e digitali) dedicate al pubblico non accademico (43):

43. Angeli N. & Cantonati M. 2019. In mari, laghi e fiumi, ma anche sugli edifici, nei giardini e nelle fontane. Le alghe degli ambienti urbani. In: Rigobello F., Negra O., Angeli N., Barbieri N., Bianchi A., Cantonati M., Corsini L., Donini M., 2019 - *Guida Alla Biodiversità Urbana In Trentino-Alto Adige/Südtirol: Il. Piante E Funghi - Natura Alpina* **63** - 1/2/3/4 2012 (Trento - pp. 288): 33-40.
42. Cantonati M. 2018. *Pharao*: Il faraone del deserto. La collaborazione tra MUSE e Università di Ain Shams (Cairo) porta alla scoperta di molti nuovi taxa tra cui un nuovo genere di alghe verdi. *Natura Alpina* Strenna del MUSE 2018: 41-42.
41. Cantonati M. 2018. Le diatomee delle sorgenti dei due parchi nazionali bavaresi come indicatrici di cambio ambientale e le reti di ricerche ecologiche di lungo corso. *Natura Alpina* Strenna del MUSE 2018: 37-38.
40. Cantonati M. 2018. *Ex Cypro semper aliquid novi*. Le diatomee dei corsi d'acqua di aree geografiche con clima mediterraneo. *Natura Alpina* Strenna del MUSE 2018: 39-40.
39. Cantonati M. 2017. Otto mesi in una dimensione parallela. Museologia comparata: MUSE, Trento vs *ANSP Drexel University*, Philadelphia (USA). Strenna del MUSE 2017 *Natura Alpina* 68(1-4): 247-250.
38. Cantonati M. 2017. Una pietra miliare per il riconoscimento delle diatomee: Presentazione di un nuovo testo internazionale di identificazione delle Bacillariophyceae per la valutazione delle qualità ambientale. Strenna del MUSE 2017 *Natura Alpina* 68(1-4): 33-34.
37. Cantonati M., Angeli N., Bertoni E. & Spitale D. 2017. Progetto Nambino SEFIRA: Invecchiamento precoce di un laghetto alpino a causa di detriti di frana e valanga. Strenna del MUSE 2017 *Natura Alpina* 68(1-4): 29-32.
36. Cantonati M., Angeli N., Spitale D. 2017. Sorgenti 1997-2017: Le ricerche ecologiche di lungo corso del MUSE negli ambienti di sorgente del PNAB compiono vent'anni. Strenna del MUSE 2017 *Natura Alpina* 68(1-4): 27-28.
35. Cantonati M. 2017. Ambienti acquatici. In: Caola E. & Salsa A. (Eds) *La Sarca. Luogo delle diversità*: 56-81.

34. Cantonati M., Nones F., Scalfi A., Spitale D. & Tardio M. 2016. Un congresso e un workshop internazionali sulle alghe bentoniche per il monitoraggio delle acque interne, un evento arte-scienza sul tema (AlgArt) e la storia della rossa tenace del Garda (*Bangia atropurpurea*). *Natura Alpina* x: xx-xx. ISBN.
33. Marchetto A. & Cantonati M. 2015. Nascita e sviluppi della limnologia alpina. Meeting L'acqua nelle terre alte: un percorso di ricerca attraverso il sistema alpino. Verbania Pallanza - CNR ISE, December 4th 2015.
32. Cantonati M., Angeli N., Spitale D., Rott E., Stoch F., Nascimbene J., La sorgente di Labante (20-21), le sorgenti del M. Penna (35-36), le Fonti di Poiano (42) nell'ambito del Progetto EBERs - Segadelli S., Angeli N., Spitale D., Cantonati M., Alla scoperta della biodiversità delle sorgenti dell'Emilia-Romagna: Il progetto EBERs (26-30) 2012. In: Segadelli S. et al. A deterministic walk looking for springs. FLOWPATH 2012. Bologna, Italy, June 20-22, 2012. Field trip guide.
31. Cantonati M. 2012. Gli habitat acquatici di pregio naturalistico del Parco testimoni del cambiamento ambientale e climatico. Ricerche ecologiche di lungo corso in sorgenti e laghi d'alta quota del Parco Naturale Adamello-Brenta. *Adamello-Brenta Parco*.
30. Segadelli S., Angeli N., Spitale D. & Cantonati M. 2012. Alla scoperta delle biodiversità delle sorgenti dell'Emilia-Romagna. Published online: <http://www.stefanosegadelli.it/cat.html?cat=233>
29. Cantonati M. 2010. Sorgenti... di specie. Nuovi generi e specie di diatomee scoperti negli habitat di sorgente nell'ambito del Progetto CRENOTAT. *Natura Alpina*, 1-2 (2009): 23-32.
28. Cantonati M., 2008. La biodiversità invisibile. In: Tesori naturalistici. Alla scoperta dei paesaggi e della biodiversità, dalla montagna al mare, nelle province di Belluno, Vicenza, Verona, Mantova e Ancona (Cesare Lasen, a cura di): 22-23. Edizione della Fondazione Cariverona (Cassa di Risparmio di Verona, Vicenza Belluno e Ancona). Arsenale Editore. Verona.
27. Cantonati M., 2008. La Finlandia delle Alpi. Un moderno database per i laghi e le sorgenti del trentino. *Economia Trentina*, Anno LVII, Suppl. N. 3/4, pp 36-39.
26. Tardio M., Cantonati M. & N. Angeli, 2007. Alla fermata del Lago Rosso La Stazione Limnologica del Lago di Tovel, una nuova sede territoriale del MTSN per la divulgazione e la ricerca. *Natura Alpina*.
25. Cantonati M., 2006 – Flora – In: F. Stoch (a cura di), Laghetti d'alta quota - *Quaderni habitat*, 14: 45-65. Ministero dell'Ambiente e della Tutela del Territorio. Museo Friulano di Storia Naturale. ISBN 88 88192 25 5
24. Cantonati M., Lapini L., Paradisi S. & F. Stoch, 2006 – Aspetti di conservazione e gestione – In: F. Stoch (a cura di), Laghetti d'alta quota - *Quaderni habitat*, 14: 123-135. Ministero dell'Ambiente e della Tutela del Territorio. Museo Friulano di Storia Naturale. ISBN 88 88192 25 5.
23. Cantonati M. 2006. Dieci anni di Ricerche sugli ambienti acquatici. In: C. Ferrari, L. Brida, P. Oss & A. Voltolini. Dichiarazione Ambientale. Adamello Brenta Parco - Speciale EMAS: pag. 32.
22. Cantonati M. & S. Scola, 2005 – Vivere in profondità - I sorprendenti adattamenti delle microalghe alla vita sui fondali del Lago di Tovel – *Adamello-Brenta Parco*.
21. Cantonati M., 2005 – Alghe – In: F. Stoch (a cura di), Pozze, stagni e paludi - *Quaderni habitat*, 11: 1-158. Ministero dell'Ambiente e della Tutela del Territorio. Museo Friulano di Storia Naturale.
20. Cantonati M., 2004 – La complessa storia dell'“enigmatico” lago rosso – *Adamello-Brenta Parco*, 8(4): 26-28.
19. Cantonati M., 2004 – Uomini e laghi - In V. Ribecchi, Progetto fotografico – “Lago Serrai e Lago delle Piazze, progetto laghi, Trento 02/04 – 30/05/2004”.
18. Cantonati M. & E. Bertuzzi, 2003 – Le sorgenti per capire i cambiamenti ambientali – *Adamello-Brenta Parco*, 7(1): 4-7.
17. Cantonati M. & E. Bertuzzi, 2003 – Un giovane ricercatore inglese a Tovel pochi anni dopo la fine dell'arrossamento – *Adamello-Brenta Parco*, 7(2).
16. Tardio M., Cantonati M. & M. Lanzinger, 2003 – La Stazione Limnologica del Lago di Tovel: Sezione territoriale del Museo Tridentino di Scienze Naturali in Convenzione con il Comune di Tuenno, nel Parco Naturale Adamello-Brenta. 2003.
15. Cantonati M. & M. Lazzara, 2002 - Un nuovo progetto di ricerca si confronta con il “paradosso Tovel”. L'apporto del Museo Tridentino di Scienze Naturali al progetto SALTO (Studio sul mancato Arrossamento del Lago di TOvel) – *Bollettino SAT*, LXV(1): 17-22.
14. Cantonati M., 2002 – I laghi d'alta quota dell'Adamello nel Parco: risorsa preziosa e testimoni sensibili del cambiamento ambientale – *Adamello-Brenta Parco*, 6(3): 22-28.
13. Cantonati M. & K. Ortler, 2002 – Flora e vegetazione – In: F. Stoch (a cura di), Torrenti montani – La vita nelle acque correnti, *Quaderni habitat*, 5: 29-55. Ministero dell'Ambiente e della Tutela del Territorio. Museo Friulano di Storia Naturale. ISBN 88 88192 07 7.
12. Angeli N. & M. Cantonati, 2001 – Le vicissitudini di un lago d'alta quota – *Adamello-Brenta Parco*, 5(3): 2-6.
11. Cantonati M. & N. Angeli, 2001 – La “movimentata” esistenza del Lago di Cornisello Inferiore – *Adamello-Brenta Parco*, 5(4): 12-16.
10. Cantonati M. & M. Tardio, 2001 – Glenodini pallidi e Lago di Tovel - *Adamello-Brenta Parco*, 5(4): 17-19.
9. Cantonati M., 2000 – Arche del nostro tempo. I Musei naturalistici, moderne arche della biodiversità – *Catalogo della Mostra “Il Diluvio Universale”*: 75-78.
8. Cantonati M., Maiolini B. & A. Boscaini, 2000 – Per una gestione sostenibile degli ambienti acquatici nelle Alpi – *Catalogo della Mostra “Il Diluvio Universale”*: 69-74.
7. Cantonati M., Boscaini A., & F. Corradini, 2000 – Alla riscoperta dei laghi alpini – *La Comunità di Fiemme*, XVIII(1):
6. Cantonati M., 1999 - Le sorgenti: solo acqua da utilizzare o scrigni di natura e spie dell'ambiente - *Natura Alpina*, 1-2: 82-83.
5. Cantonati M., 1999 - Nuova collezione di diatomee per documentare le condizioni degli ambienti acquatici - *Natura Alpina*, 1-2: 84-85.
4. Tolotti M. & M. Cantonati, 1999 - Il catasto dei laghi del Parco Adamello-Brenta - *Natura Alpina*, 1-2: 86-87.
3. Tolotti M. & M. Cantonati, 1999 - Un laboratorio idrobiologico nel lago di Tovel - *Natura Alpina*, 1-2: 88-89.
2. Cantonati M., 1999 - Perché studiare le acque d'alta quota – *Suppl. Bollettino SAT*, LXII(4): 12-17.
1. Tolotti M. & M. Cantonati, 1997 - La valle di Tovel tra passato e futuro - *Adamello-Brenta Parco*, 1(3): 2-7.

Attività didattica a livello universitario in Italia o all'estero

RIASSUNTO: Teaching in international courses (Visiting Professorships, practical courses, summer schools, workshops) (13); Membership in Doctoral Studies Committees (*Collegio dei Docenti*) (3); PhD theses (Supervisor 12, Opponent 6, Reviewer 8, Substantial contribution to 5, Reviewer of PhD proposals 1); Seminars, Lectures & Excursions for PhD and M.Sc. students (10); Visiting Ph.D. students (5+2); M.Sc. Theses (24); Bachelor theses (17); Volunteer Research Assistant (7); Academic evaluations (Habilitation, Promotion to Assoc. Prof., 2).

University Teaching Habilitation in Austria and Italy:

- Austria: The Central European Habilitation evaluates excellence both in scientific production and in University teaching. **2011: Habilitation (*venia docendi*) in Limnology (Phycology) at the University of Innsbruck** (Austria). Awarded on the basis of 6 international reviews (4 on the **scientific production** and 2 on the **University teaching skills**) as well as of the public test lecture (*Erteilung der Lehrbefugnis vom Rektorat der Leopold-Franzens-Universität Innsbruck mit Bescheid GZ 146462/32-11gemäß § 103 Abs. 1 UG 2002 mit 21. 06. 2011*).
- Italy: Italian University-Teaching Habilitation (tenurability certification) - **Abilitazione Scientifica Nazionale (ASN)** settore concorsuale **05/A1 BOTANICA (Plant Sciences)**, including Environmental Botany, Plant Ecology, and Phycology) - I fascia (at the rank of **full professor**) (Dal 05/12/2017 al 05/12/2028) + II fascia (at the rank of **associate professor**) (Dal 03/04/2018 al 03/04/2029); ASN s.c. **05/C1 ECOLOGIA (Ecology)** - II fascia (at the rank of **associate professor**) (Dal 30/03/2018 al 30/03/2029).



“Cultore della Materia”: University of Pavia (early 1990s). Member of the Exams’ Commissions as for the following courses: Hydrobiology, Ecology.

In the early-career years: Seminars, tutorials, and laboratories for several courses of limnological and ecological subject at the Universities of Pavia and Innsbruck.

Corsi e Moduli all’Università di Bologna (s.s.d. BIO/02, s.c. 05A1)

A.A. **2023/2024**:

LM in **Biodiversità ed Evoluzione**, Corso ‘**B2146 - Laboratorio di biodiversità ed evoluzione delle piante e degli organismi fotoautotrofi**’ (Tipo: B = caratterizzante) (6 CFU: 3 frontali e 3 CFU laboratori). Unico docente e **Titolare del corso**.

LT in **Scienze Biologiche**, Corso ‘**66989 - Biologia e diversità vegetale**’ Canali AL & MZ (Tipo: A = di base), **Modulo Biodiversità** (2 CFU frontali)

A.A. **2022/2023**:

LM in **Biodiversità ed Evoluzione**, Corso ‘**91403 - Laboratorio di biodiversità ed evoluzione delle piante**’ (dal 2023/2024 nuova denominazione: ‘Laboratorio di biodiversità delle piante e degli altri organismi fotoautotrofi’) (Tipo: B = caratterizzante) (6 CFU: 2 frontali e 4 CFU laboratori). **Unico docente** e **Titolare del corso**.

LT in **Scienze Biologiche**, Corso ‘**66989 - Biologia e diversità vegetale**’ Canali AL & MZ (Tipo: A = di base), **Modulo Biodiversità** (2 CFU frontali)

A.A. **2021/2022**:

LM in **Biodiversità ed Evoluzione**, Corso ‘**91403 - Laboratorio di biodiversità ed evoluzione delle piante**’ (Tipo: B = caratterizzante), **Modulo 3 ‘Diversità degli organismi fotoautotrofi’** (1 CFU frontale e 1 CFU laboratorio in due turni)

LT in **Scienze Biologiche**, Corso ‘**66989 - Biologia e diversità vegetale**’ Canali AL & MZ (Tipo: A = di base),

Modulo Biodiversità (2 CFU frontali)

Courses taught at the University of Innsbruck, Austria (Contract Professor/Lehrbeauftragter Botany Institute) (4):

4. WS 2013/2014 **LV 717038** (VU 1, 24 hours) **Phytobenthos**. Part of the *Wahlmodul: Spezielle Hydrobotanik* directed by Prof. Eugen Rott. Botany Institute.
3. WS 2011/2012 **LV 717040** (PJ 1, 24 hours) **Student Project – Algae sampling in streams according to European standards** / *Hydrobotanische Projektstudie* Botany Institute, Practical Project [part of a student Project, jointly directed with Prof. E. Rott]
2. WS 2009/2010 **LV 717035** (VO 1, 24 hours) **Algal ecology** / *Spezielle Hydrobotanik* Botany Institute [Vorlesung im Rahmen einer Modul-Lehrveranstaltung von Prof. E. Rott]
1. SS 2009. **LV 717007** (MC: 24 hours) **Introduction to aquatic photoautotrophs** / *Grundlagen der Hydrobotanik* (both theoretical and practical / „VO1, UE1“. Botany Institute, Block [together with Prof. E. Rott]

Courses taught at the University of Trento, Italy (Adjunct Professor B.Sc. Program in Biotechnology) (2):

1. SS 2014 **Biology of Photoautotrophic Organisms (145379, 48 hours)**. [valutazione degli studenti: media ponderata = 3.20 (da 1 = decisamente no a 4 = decisamente sì), **4° miglior corso dei 13 offerti dal Dip. CIBIO in quell'anno**]. The main objective of the course was to provide a broad and effective introduction to the biodiversity, functional morphology, and physiology of photoautotrophic organisms from both pure and applied standpoints. Assigned on the basis of open competitive selection.
2. 2014 **Natural Sciences for High-School Teachers**. From the course contents: Structure, ecological role, diversity of Prokaryotes and Eukaryotes analyzed considering Chloro- and Cyanoprokaryotes and the main groups of photosynthetic protists. Photoautotrophic-organisms' evolution, phylogenesis, and systematics. The environment as a complex system. The organisms and the environment. Ecosystems and their dynamics. Pollution. Environmental-quality indicators. Water as a resource. Epicontinental waters.

Corso per insegnanti: 2008. Progetto "Siamo tutti biodiversi?" "Percorso di autoformazione guidata: approfondimenti scientifici" a cura dei ricercatori delle Sezioni scientifiche del Museo Tridentino di Scienze Naturali. Trento: MODULO 1 - Definizione di biodiversità attraverso approcci di tassonomia classica nell'ambito della botanica, zoologia, microbiologia e degli organismi microscopici. 13-10-2008; MODULO 4 - Specie indicatrici di salute ambientale: i bioindicatori. 10-11-2008; MODULO 6 - Adattamenti all'ambiente. 24-11-2008; MODULO 9 - Le aree ad alta biodiversità (hotspots). Le sorgenti alpine. 22-12-2008.

Multi-lingual teaching & text books

I have performed University teaching activities in **English, German, and Italian**, and possess a detailed knowledge of scientific terminology in these three languages. I was co-Editor of the Italian Edition of a **well-known ecology textbook**, the majority of the chapters of which were translated into Italian by myself, and I wrote chapters in books (available in English and Italian) on mountain streams, high-mountain lakes, and pools, ponds & marshes (see Publ. list).

Teaching in international courses: visiting professorships, practical courses, summer schools, workshops (6)

6. *Visiting Professor* at the University of Olomouc (Czech Republic), March 2014. PhD program in Botany. Lectures for Hydrobiology and Phycology courses.
5. *Visiting Professor* at the Universities of Brno and Olomouc (Czech Republic), March 2010. *INNOLEC LECTURESHIP in Limnology and Phycology* awarded by the Faculty of Science of the Masaryk University in Brno "in recognition of his valuable contribution to the development of the teaching curriculum".
4. *Ecology & taxonomy of benthic diatoms in oligotrophic freshwater habitats* (From the 16th to

the 20th of June 2008). *Practical course organizer*: Marco CANTONATI, Trentino Nature & Science Museum, Limnology and Phycology Section, Italy. 18 students from Bulgaria, France, Germany, Switzerland, Canada, Sweden, Estonia, Czech Republic, Spain, Russia, Italy.

3. *Limnology of Lake Tovel: A peculiar mountain lake* (Special subject: *Vertical gradients and depth distribution of planktonic and benthic organisms in a mountain lake*) (29/06/2003-05/07/2003).

Course organizer and instructor of the phytobenthos group (analyses on epilithon sampled by divers along a depth profile). Course Director: Prof. Eugen Rott (Univ. Innsbruck). Italian and Austrian students.

2. *Limnology of Lake Tovel*, 1178 m a.s.l., Trentino, Italy (20-26/9/1998). Instructor (physicochemistry, benthic diatoms and cyanobacteria). Italian and Austrian students. Course Director: Prof. Eugen Rott (Univ. Innsbruck). This course is described and discussed in the following publication: Cantonati M., 1999 - A student course describing the late summer situation of a mountain lake (lake Tovel, 1178 m a.s.l., Southern Alps) - *Proceedings of Lake99*, S16A-4. 17-21 May 1999, Copenhagen, Denmark.

1. *Limnology of a large perialpine lake: Lago di Garda* (16-21/9/1996). Course Director: Prof. Eugen Rott (Univ. Innsbruck). Instructor (diatoms). Italian and Austrian students.

Teaching in national courses (8):

Cantonati M. 2024. *Le diatomee (e altre alghe e cianoprocaroti) come utili e versatili indicatori e proxy per l'ecologia e la conservazione delle zone umide*. Lezione (14.00-15.30, 30/08/2024) per il **58° Corso di Cultura in Ecologia (Zone umide: ecologia e conservazione**, 28-30/08; Organizzatori: Tommaso Anfodillo & Giulio Menegus). **Centro Studi per l'Ambiente Alpino**, L. Susmel, Università degli Studi di Padova, Dip. Territorio e Sistemi Agro-Forestali, **San Vito di Cadore** (BL).

Practical courses on *diatom taxonomy and ecology* and on *phytobenthos taxonomy and applied ecology* for students from Italian Universities (Parma, Bologna, Padova) and professionals at the **Limnological Station of the Museum at Lake Tovel**. 1-week courses (Diatoms: July 2006, 25-29 June 2007, 9-13 July 2007, 6-10 July 2009, 5-9 July 2010). Course Director and Instructor for taxonomy, ecophysiology, and ecology.

Lectures & Field and lab work for the **Master Management and Conservation of Natural Resources, University of Pavia** (12-13/07/2003).

Membership in Doctoral Studies Committees (*Collegio dei Docenti*) (3):

3. **University of Parma (Ecology**, 2003-2013).

2. **University of Pisa** (2008, Evolutionary Biology).

1. **University of Pavia** (2017-current): **Reviewer Panel** of the **Earth and Environmental Sciences** PhD Program.

List of supervised PhD theses (12)

12. **Piana** Lucia 2027. *Springs as refugia and key ecosystems in the face of overdraft, pollution, and climate change*. 39° ciclo di Dottorato in Scienze della Terra, della Vita e dell'Ambiente (STVA) [il 25/01/2023 **M. Cantonati** è risultato **vincitore di un concorso BiGeA-UniBO per l'assegnazione di posti di dottorato di ricerca attivato dal Dipartimento di Scienze Biologiche, Geologiche e Ambientali**].

11. **Thapa** Bhumika 2027. *Impact of road building on the ecology and biodiversity (microbes, algae, macroinvertebrates) of springs and streams in Nepal*. Supervisors: Dean Jacobsen & Marco Cantonati. University of Copenhagen, Denmark.

10. **Soulaima** Azizi 2025. *Assessment of the ecological status of streams in the catchment area of the Bizerte Lagoon using phytoplankton and benthic diatom indicators*. Supervisors: Asma Sakka Hlaili & Marco Cantonati. Faculty of Sciences of Bizerte (FSB) - University of Carthage, Tunisia.

Cotutelle with the University of Bologna.

9. **Cid-Rodríguez** María 2025. *Vulnerability assessment of headwaters to environmental change: diatoms as indicators in sensitive ecosystems*. Supervisors: Delgado C. (U. Vigo), Cantonati M. (UniBO), Leira M. (University of A Coruña). University of Vigo (Spain).
8. **Gaudi** Tatjana 2026. *Diatomeen in Quellen der Bayerischen Nationalparks - Bioindikatoren des Klimawandels*. Technische Universität München (TUM), School of Life Sciences. Supervisor: Univ.-Prof. Dr Jürgen Geist. Co-Supervisors: U. Raeder & M. Cantonati.
7. **Lai** Giuseppina Grazia 2019. *Ecological surveys for the valorization of spring environments of Sardinia: implications for their fruition and environmental protection*. PhD in Architecture & Environment. XXXI Cycle. University of Sassari. Italy. Supervisors: Dr B.M. Padedda & Prof. A. Lugliè. Co-Supervisors: Prof. M. Cantonati, Prof. L. Ector, Dr C.E. Wetzel. 211 pp.
6. **Niedrist** Georg H. 2017. *Feeding ecology of alpine chironomids (Diptera. Chironomidae). Basic principles, observed patterns and future prospects under climate change conditions*. Supervisors: Prof. L. Füreder, PD Dr Marco Cantonati. University of Innsbruck (Austria). Thesis defence: November 11th 2017. 165 pp.
5. **Rosati** Melissa. *Assembly processes of invertebrate communities in springs across different spatial scales*. Supervisors: Prof. Giampaolo Rossetti, Dr Marco Cantonati, Dr Stefano Segadelli. University of Parma (Italy). Dept. of Environmental Sciences. Thesis defence: March 1st 2016. 115 pp.
4. **Taxböck** Lukas. 2015. *Diatom biodiversity, distribution patterns and spring types in near-natural Swiss springs*. Supervisors: PD Dr M. Cantonati (also Member of the *Promotionskomitee*), Prof. P. Linder [the former supervisor, Prof. H. Preisig, deceased 2011]. University of Zurich (Switzerland). Institute of Systematic Botany. Thesis defence: November 10th 2015. 150 pp.
3. **Mogna** Marcella. 2012. *Ricerche ecologiche su habitat sorgentizi nel Parco Naturale Alta Valle Pesio e Tanaro e valli limitrofe / Ecological investigations on spring habitats in the Alta Valle Pesio and Tanaro Nature Park and nearby valleys*. Supervisors: Dr Marco Cantonati, Prof. G. Berta and Dr Flora Andreucci. Dept. of Environmental and Life Sciences, University of Eastern Piedmont, Alessandria (Italy). Thesis defence: March 28th 2012. 120 pp.
2. **Spitale** Daniel. 2008. *Bryophytes and vascular plants in springs of the Italian Alps: Biodiversity analysis at large spatial scale and mechanisms of distribution at fine spatial scale*. Supervisors: Dr Marco Cantonati, Dr Giampaolo Rossetti, Prof. Marcello Tomaselli. Dept. of Environmental Sciences, University of Parma (Italy). XIX Ciclo. Thesis defence: March 3rd 2008. 119 pp.
1. **Angeli** Nicola. 2006. *Ricostruzioni paleoecologiche tramite l'analisi di diatomee subfossili in sedimenti di laghi del Trentino*. Università di Parma. Supervisors: Dr Marco Cantonati, Dr Giampaolo Rossetti. Dept. of Environmental Sciences, University of Parma (Italy). XVII Ciclo. Thesis defence: March 9th 2006. Evaluation: 'Eccellenza'. 77 pp.

Opponent (Member of the Thesis Committee) of the following Ph.D. theses (6):

6. Ossyssek S.J. 2022. *Determinants of diatom diversity in mountain lakes of the northern European Alps*. Technische Universität München (TUM), School of Life Sciences. Supervisor: Univ.-Prof. Dr. Jürgen Geist.
5. Rimet F. 2012. *Diatoms: an ecoregional indicator of nutrient, organic matter and micropollutants pollution*. PhD Thesis. Université de Savoie, France. Supervisor: I. Domaizon.
4. Fránková M. 2010. *Ecology and taxonomy of diatoms of Western Carpathian spring fens*. PhD Thesis. Masaryk University. Brno, Czech Republic. Supervisor: A. Poulíčková. Opponents: F. Hindák & M. Cantonati.
3. Bottazzi E. 2010. *Caratterizzazione ecologica di ambienti lotici e sorgentizi dell'alto Appennino parmense*. Tesi per il conseguimento del Dottorato di Ricerca in Ecologia (XXII Ciclo). Supervisors: Dr. G. Rossetti, Dott. S. Fenoglio, Dr. B. Maiolini.
2. Silveri L. 2009. *Plecoptera in Alpine streams and springs*. Tesi per il conseguimento del Dottorato di Ricerca in Ecologia (XX Ciclo). Università di Parma. Supervisors: Dr. G. Rossetti & Dr. B. Maiolini.

1. Caravati E. 2008. Biodiversità e caratteristiche eco-fisiologiche dei picocianobatteri d'acqua dolce Tesi per il conseguimento del Dottorato di Ricerca in Ecologia (XX Ciclo). Università di Parma. Supervisors: Prof. P. Viaroli & Dr. C. Callieri.

Referee of the following Ph.D. theses (8):

8. Hejduková E., 2020/2021. *Freezing tolerance of freshwater diatoms as a key to their success in polar regions*. Study programme 'Ecology' at the Faculty of Science, Charles University in Prague, Czech Republic. Supervisor: Doc. RNDr. Linda Nedbalová.
7. Pastorino P., 2018/2019. *Alpine lakes, indicators of global change: ecological characterization and environmental pressures in two lakes from Italian Alps*. Università degli Studi di Trieste, Dept. Life Sciences, XXXII Ciclo. Italy. Supervisors: Prof. Piero Giulio Giulianini, Prof. Elisabetta Pizzul, Dr Marino Prearo. BIO/07 ECOLOGIA. 158 pp.
6. Lehosmaa K., 2017. *Anthropogenic disturbance to and restoration of springs and spring-fed streams*. University of Oulu, Dept. Ecology & Genetics, Finland. Supervisors: Prof. Timo Muotka & Dr Jussi Jyväsjärvi.
5. Chuzhekova T.A., 2016. *Structural and functional features of macrozoobenthos communities in spring brooks of Middle Volga Basin*. Saint Petersburg State University, Faculty of Biology, Dept. Ichthyology & Hydrobiology, Russia. Ph.D. Supervisor: Prof. Maximovich Nikolay V.
4. García M.E., 2014. *Biodiversity of continental macroalgae and ecological quality assessment in transitional waters. The case of the Pego-Oliva marsh (E Iberian Peninsula)*. University of Murcia. Spain. Ph.D. Supervisor: Prof. M. Aboal.
3. Cvetkoska A. 2014. *The diatoms as indicators of the palaeolimnological changes in ancient Lake Prespa*. Ss. Cyril and Methodius University. Skopje, Macedonia. Supervisor: Prof. Z. Levkov.
2. Urrea-Clos G. 2010. *Distribution of diatom communities in agricultural and mining watersheds of Southwest Spain*. Escola de Postgrau. University of Girona. Spain. Ph.D. Supervisor: Prof. S. Sabater.
1. Tornés Bes E., 2009. *Distributional patterns of diatom communities in Mediterranean rivers*. Escola de Postgrau. University of Girona. Spain. Ph.D. Supervisor: Prof. S. Sabater.

Substantial contributions (and co-funding) for the following Ph.D. theses (5):

5. Saber A.A.M. *Unveiling phyco-biodiversity of El-Farafra Oasis (Western Desert, Egypt) with special interest on springs and wells, and potential relevance of its use in bio-assessment*. Ain Shams University (Egypt).
4. Segnana M. *Environmental and climate change (Holocene) in the Dolomites inferred from subfossil pollen (diatoms) in mire cores*. Supervisors: Prof. C. Barbante, Dr. J. Gabrieli. Environmental Sc. Dept., University of Venice (Italy). Funded by CariVerona Foundation.
3. Bertuzzi E. 2008. *Le sorgenti delle Alpi: complessità, biodiversità e indicatori di naturalità/integrità - Tesi per il conseguimento del Dottorato di Ricerca in Scienze Ambientali* - Università di Urbino (XIX Ciclo). Relatore: Prof. Almo Farina.
2. Tardio M. 2007. *Eco-physiological, taxonomical and paleolimnological study of dinoflagellates of Lake Nero di Cornisello (Adamello Brenta Natural Park, Italy)*. Tesi per il conseguimento del Dottorato di Ricerca in Biologia Evoluzionistica. Università di Pisa. XIX Ciclo. Relatore: Prof. Graziano Di Giuseppe. Posto con borsa. Thesis defence: 10/01/2007.
1. Tolotti M. 2000. *Phytoplankton, littoral diatoms and general limnology of high mountain lakes in the Adamello-Brenta Regional Park (Trentino, Italy)*. Dissertation zur Erlangung des akademischen Grades eines Doktors der Naturwissenschaften. Naturwissenschaftliche Fakultät der Leopold-Franzens-Universität Innsbruck. Supervisors: Prof. Eugen Rott & Dr Eveline Pipp. 184 pp.

Referee of the following Ph.D. thesis proposals (1):

1. 2017. *Hydroclimatological controls affecting the spatial and temporal variability of terrestrial diatoms across catchments*. Wageningen Institute for Environment and Climate Research (WIMEK), Wageningen University, The Netherlands

Seminars, Lectures & Excursions for PhD and M.Sc. students (10):

10. *Multiplicity, Characteristics, Main Impacts, and Stewardship of Natural and Artificial Freshwater Environments: The Benthic Algae (including Cyanobacteria) Perspective*. Seminar for the PhD program in Evolutionary Biology and Ecology Department of Biology University of Rome "Tor Vergata". 15-03-2021 [Invited by Prof. Roberta Congestri & Prof Andrea Novelletto].
9. *My beloved spring environments & ecohydrogeology*. Invited Speaker at the *1st International Meeting on Behavior, Ecology, and Evolution - in a changing world (IMBEE)*, October 13th-15th, 2020, PPG-Biodiversidade of the Universidade Federal de Juiz de Fora (UFJF), Brazil [online due to CoViD pandemics] Meeting organized by PhD students. <https://www.youtube.com/watch?v=3grWRDkhoyo&t=4614s>



8. *Ecology, systematics, diversity, adaptations of algae in springs and lakes*. Drexel University. Department of Biodiversity, Environmental & Earth Sciences. September 22nd 2016 (3.30-5 p.m.). Seminar series for PhD students. Philadelphia, PA, USA.

5. *Springs: The forgotten habitats*. Invited introductory lecture for the Mini-Symposium for PhD students “Quellen” (= springs). University of Zurich. Institute of Systematic Botany. Zurich, Switzerland, November 10th 2015.

7. *Use of benthic organisms from multiple taxonomic groups for the conservation-oriented classification of spring habitats: Neglected and threatened key habitats for biodiversity conservation*. Invited lecture for PhD students at the Faculty of Science of the Palacký University (Depts of Botany and of Ecology & Environmental Sciences), Olomouc, Czech Republic. 24/03/2010.

6. *Gli habitat sorgivi: sconosciuti hotspot di biodiversità acquatica minacciati da captazioni e cambiamenti climatici*. Seminario per gli studenti del Dottorato di Ricerca in “Ecologia Sperimentale e Geobotanica” (credito formativo riconosciuto). Orto Botanico – Aula C. University of Pavia, Italy. 22-04-2009.

4. *Spring habitats of the Alps: Specific biodiversity hotspots for algae –incl. cyanobacteria*. Botanisches Kolloquium. Botany Institute. University of Innsbruck, Austria. 04-03-2009.

3. *Diatom assemblages in springs and streams of the Dolomiti Bellunesi National Park. Hydrobotany Seminar WS 2005/06* (Convenors: Rott E. & W. Wurtsbaugh). 13-14/01/2006. Innsbruck (Austria)

2. *The large limestone-precipitating spring of S. Antonio di Labante (BO)*. A contribution to the excursion for students in Sustainability and United Nations SDGs of Alma Mater University of Bologna (Excursion Director: Prof. A. Gargini). 18-05-2019.

1. *The large karstic springs of Rio Bianco (Stenico)*. A contribution to the excursion for students in Environmental Sciences and Nature Conservation of the University of Parma (Excursion Director: Prof. M. Tomaselli). Adamello-Brenta Natural Park, Italy. 16-06-2009.

Visiting Ph.D. students (5+2):

5. **Boutarfa** S. 2018. Abbes Laghrour University Khenchela (Algeria). Main topics: Characterization and identifications of thermophilic microalgae and cyanobacteria from Algerian geothermal resources.

4. **Rossini** R. 2016. University of Queensland, St Lucia (Australia). Main topics: Australian springs, invertebrate conservation, ecological theory.

3. **Kamberović** J. 2013. University of Zagreb (Croatia) & University of Tuzla (Bosnia and Herzegovina). Main topics: Photoautotrophs in mountain springs of Konjuh.

2. **Letáková** M. 2013-2014. University of Olomouc (Czech Republic). Main topics: Epiphytic diatoms from the Valagola_SEFIRA Project, macroscopic colonies of *Cymbella excisiformis* in the downstream sector of a SAL spring.

1. **Virtanen** L. 2011. University of Helsinki (Finland). Main topics: Taxonomy and ecology of diatoms in low alkalinity waters. *Achnantheidium minutissimum* (Bacillariophyta) teratological forms as indicators of heavy metal enrichment / pollution in different freshwater environments.

Ph.D. students: Short visits (2):

2. **Borsato** V. 2014. University of Trieste. Main topics: Identification of some algae found during the floristic and phytosociological assessment of very-shallow mountain ponds surrounded by pastures (*Iame*, Foresta del Cansiglio).

1. **Fortunato** E. 2014. University of Basilicata. Main topics: Pertusillo Reservoir coring project.

Visiting Erasmus+ students (2):

2. **Bezdičková** V. 2023. Abbes Laghrour University Khenchela (Algeria). Main topics: Paleoecological reconstructions to reconstruct recent mire eutrophication.

1. **Rodríguez** M.C. 2023. University of Vigo (Spain). Main topics: Paleoecological investigations on mire and lake cores for diatom-based climate-change reconstructions (focus on extreme precipitations).

M.Sc. Theses (24) – Lauree Magistrali:

24. AL-MARAKEBY Ali Ahmed Mohamed 2024/2025. The role of environmental drivers in structuring and distribution of the diatom assemblages in springs of the Siwa Oasis (Egypt). Relatori: A.A. Saber, M.K. Zakariya, M. Cantonati. Botany Department, Faculty of Science, Ain Shams University, Cairo, Egypt.

23. ALSAADI Rwan 2024/2025. Potamoplankton from the Shenandoah River (VA, USA). Relatori: R. Stancheva Christova, M. Cantonati. George Mason University, Department of Environmental Science & Policy & Potomac Environmental Research and Education Center (PEREC).

22. DELLE DONNE Matteo 2023/2024. Composizione e struttura delle comunità di diatomee in sorgenti del Parco Nazionale Bayerischer Wald e confronto con altre due aree protette della Germania centrale, con particolare attenzione all'acidificazione. Alma Mater Studiorum Università di Bologna. Tesi LM in Biodiversità ed Evoluzione. Relatore: M. Cantonati. 73 pp. Thesis defence: March 12th 2024.

21. SOPPELSA Mattia 2022/2023. Studio di comunità di diatomee in ecosistemi di sorgente selezionati per lo studio degli effetti del cambiamento climatico nel Parco Nazionale di Berchtesgaden (Baviera, Germania). Alma Mater Studiorum Università di Bologna. Tesi LM in Scienze e Gestione della Natura. Relatore: M. Cantonati. 53 pp. Thesis defence: March 11th 2024.

20. KOUTSOPOULOS Georgios 2022/2023. An ecohydrogeological characterization and comparison of springs above the tree line in the Northern Apennines and Arctic Norway. Alma Mater Studiorum Università di Bologna. Tesi LM in Global Change Ecology and Sustainable Development Goals. Relatori: A. Gargini, M. Cantonati, Jutta Kapfer & Stefano Segadelli. 71 pp. Thesis defence: March 11th 2024.

19. PENSA Claudia 2022/2023. Hydrogeological and Ecological Assessment of Springs in the Western Carpathians: A Diatom-based Approach. Alma Mater Studiorum Università di Bologna. Tesi LM in Global Change Ecology and Sustainable Development Goals. Relatori: A. Gargini & M. Cantonati. 87 pp. Thesis defence: 16/10/2023 (109/110).

18. CASORIA Chiara 2021/2022. *Analisi di comunità di diatomee di ecosistemi di sorgente in due aree protette della Baviera, con particolare attenzione a potenziali indicatori di variabilità idrologica/disseccamento*. Laurea magistrale in Scienze Biologiche. Università di Napoli Federico II. Supervisors: Cantonati M. & G. Maisto. 122 pp. Thesis defence: June 14th 2023.

17. RODRÍGUEZ María Cid 2021/2022. Impact of cattle grazing on physical, chemical and biological parameters in peat cores from Alpine mires. Laurea magistrale in Biotecnologie per le Biorisorse e lo Sviluppo Ecosostenibile (LM-8) / *Masters's degree in Biotechnology for bioresources and sustainable development*. University of Verona. Supervisors: Zacccone C. UniVR & Cantonati M. UniBO. 63 pp. Thesis defence: July 8th 2022 [alla tesi è stato attribuito il massimo punteggio ammissibile. Voto finale complessivo: 104/110].

16. PLATANIA Giulia 2019/2020. *Studi paleolimnologici sulle diatomee di due laghi di alta quota delle Alpi in Friuli e in Piemonte*. Master Program in Global Change Ecology. Università degli Studi di Trieste. Supervisors: Pizzul E., Cantonati M. & Zorza R. xxx pp. Thesis defence: xxxx xxth 202x.

15. BURATO Sara 2015/2016. *Le diatomee come chiave interpretativa dello stato ecologico di alcune sorgenti nel Parco delle Prealpi Giulie*. Corso di Laurea Magistrale in Biologia Ambientale. Università degli Studi di Trieste. Supervisors: Pizzul E., Cantonati M. & Zorza R. 149 pp. Thesis defence: February 24th 2017. Evaluation: 110/110 cum laude.

14. SEGNANA Michela 2009/2010. *Diatomee bentoniche in laghi d'alta quota e sorgenti con acque a bassa alcalinità del Parco Naturale Adamello-Brenta (Trentino), con particolare attenzione alla distribuzione con la profondità nel Lago Nero di Cornisello*. Corso di Laurea Specialistica in Scienze della Natura. Università di Padova. Supervisors: Trevisan R. & M. Cantonati. 83 pp. Thesis defence: 20/09/2010. Evaluation: 110/110 cum laude.

13. SCALFI Alessia 2007/2008 – *Stagionalità ed ecofisiologia di micro- e macroalghe in ambiente sorgivo*. Classe delle Lauree specialistiche in Biologia 6S. Corso di Laurea specialistica in Biodiversità e biomonitoraggio degli ecosistemi. Università di Trieste. Relatori: Bressan G. & M. Cantonati. 85 pp. Discussa il 29/03/2008.

12. MAIORANA Silvia 2005/2006 - *Distribuzione longitudinale e stagionalità dello zoobenthos in due ruscelli sorgivi su diverso substrato geologico* - Tesi di Laurea in Scienze Biologiche. Relatori: Prof. Anna Occhipinti, Dr. Marco Cantonati. Università di Pavia. 72 pp. Discussa il 20/07/2006.

11. SCOLA Silvia 2002/2003 - *Distribuzione lungo un gradiente di profondità dei popolamenti vitali di diatomee epilitiche nel Lago di Tovel (Parco Naturale Adamello-Brenta, Trentino)* - Tesi in Scienze Biologiche. Relatori: Prof. Giampaolo Rossetti, Dr Marco Cantonati. Univ. Parma. 16/03/2004. 120 pp.

10. CORRADINI Giorgia, 2002/2003 - *Le diatomee di torrenti d'alta quota di Parchi naturali del Trentino occidentale* - Tesi di Laurea in Scienze Biologiche. Relatori: Prof. Giampaolo Salmoiraghi, Dr. Marco Cantonati. *Alma Mater Studiorum* - Università di Bologna. 110 pp. Discussa il 16/07/2003.

9. SPITALE Daniel 2001/2002– *Effetti sui popolamenti fitoplanctonici del Lago di Tovel (Trentino) di arricchimenti con macro- e micronutrienti in diverse tipologie di mesocosmi* - Tesi Scienze Biologiche. Rel.: Prof. Francesca C. Lorenzoni, Dr Marco Cantonati. 110 pp. Univ. Padova. 17/03/2003.

8. LEONARDELLI Paolo 2000/2001– *Ricerche preliminari sullo zooplancton dei laghi del Parco Adamello-Brenta* - Tesi in Scienze Naturali. Relatori: Prof. Ireneo Ferrari, Dr Marco Cantonati e Dott. Giampaolo Rossetti. Università di Parma: pp. 85. Discussa il 20/07/2001.

7. TARDIO Massimiliano 1999/2000 - *Evoluzione del fitoplancton in mesocosmi sottoposti ad operazione di arricchimento con fosforo nel lago di Tovel (Trentino)* - Tesi di Laurea in Scienze Biologiche. Rel.: Prof. Gianpaolo Salmoiraghi, Dr Marco Cantonati. *Alma Mater Studiorum* - Università di Bologna: pp 254. 08/03/2001.

6. ANGELI Nicola 1999/2000 - *Ecologia di due laghi alpini d'alta quota nel Parco Adamello-Brenta (Trentino) con particolare riferimento allo zooplancton* - Tesi di Laurea in Scienze Naturali. Relatori: Prof. Sandra Cesellato, Dr Marco Cantonati. Università di Padova: pp. 61. Discussa il 15/12/2000.

5. BONETTINI Anna Maria 1993/94 - *Ricerche idrobiologiche su sorgenti montane e subalpine del Parco Adamello-Brenta (Trentino)* - Tesi di laurea in Scienze Biologiche. Relatore: Prof. ord. Cesare F. Sacchi. Università di Pavia: pp. 150. Discussa il 27/7/1994.

4. GROSSI Stefania 1993/94 - *Ricerche ecologiche su popolamenti a macroinvertebrati in un ambiente marginale di Po (Comune di Spessa Po)* - Tesi laurea in Scienze Biologiche. Relatrice: Prof. Anna Occhipinti. Università di Pavia: pp. 96. Discussa il 27/7/1994.

3. PETTINELLA Roberta 1993/94 - *Ecologia e dinamica del popolamento zooplanctonico in un ambiente marginale di Po* - Tesi laurea in Scienze Naturali. Relatrice: Prof. Anna Occhipinti. Università di Pavia: pp. 143. Discussa il 13/7/1994.

2. BIRKEMEYER Tania, 1992/93 - *Ricerche di idrobiologia applicata sulla rete idrica della Raffineria Agip di Sannazzaro De' Burgondi* - Tesi laurea in Scienze Biologiche. Relatrice: Prof. Anna Occhipinti. Università di Pavia: pp.70. Discussa il 19/7/1993.

1. FERRANDINI Maria, 1992/93 - *Ecologia dinamica dello zooplancton di un ambiente marginale di Po ed effetti di una piena* - Tesi laurea in Scienze Biologiche. Relatori: Prof. Anna Occhipinti, Dr Marco Cantonati. Università di Pavia: pp. 89. Discussa il 19/7/1993.

Controrelatore per Lauree Magistrali UniBO (4):

- **Ehdaie** Marjan 2023/2024 (Relatori: A. Gargini et al.) LM in Global Change Ecology and SDG.
- **Bellini** Lisa 2022/2023 (Relatori: A. Gargini et al.) LM in Global Change Ecology and SDG.
- **Bombardi** Federico 2022/2023 (Relatori: A. Chiarucci & F. Santi) LM-60-Scienze e Gestione della Natura.
- **Di Bello** Alice 2022/2023 (Relatori: I. Aloisi et al.) LM-6-Biodiversità ed Evoluzione.

Bachelor Theses (17) – Lauree triennali:

17. ALOISI Francesco Amedeo 2024/2025. Confronto tra un lago d'alta quota soggetto a variazioni di livello per la produzione di neve artificiale e quattro laghi in condizioni semi-naturali nel Parco Naturale Adamello-Brenta (Trentino, Italia). *Alma Mater Studiorum* Università di Bologna. Tesi di Laurea in Scienze Biologiche. Relatore: M. Cantonati.

16. FERRETTI Aurora 2023/2024. Contributo delle diatomee alla caratterizzazione ecologica della nuova tipologia di sorgente: fontanili di montagna. *Alma Mater Studiorum* Università di Bologna. Tesi di Laurea in Scienze Biologiche. Relatore: M. Cantonati. Thesis defence: 15/03/2024.

15. GALASSI Giovanni 2022/2023. Caratterizzazione ecologica e analisi della struttura delle comunità di diatomee di sorgenti del piano altitudinale alpino del Parco Nazionale dell'Appennino Tosco-Emiliano. *Alma Mater Studiorum* Università di Bologna. Tesi di Laurea in Scienze Naturali. Relatore: M. Cantonati. Thesis defence: 21/03/2024 (110/110 cum laude).

14. ROSSI Floriana, 2021/2022. *Effetti del pascolamento sulla composizione degli assemblaggi a diatomee in pozze di torbiera del Parco Naturale Adamello-Brenta*. Tesi di Laurea Triennale in Scienze e Tecnologie per l'Ambiente. Università degli Studi dell'Aquila. Relatori: Prof. Diana M.P. Galassi, Prof. M. Cantonati. 67 pp. Thesis defence:

22/07/2022 [alla tesi è stato attribuito il massimo punteggio ammissibile. Voto finale complessivo: 110/110 *cum laude*].

13. PEZZATO Simone, 2020/2021. Valutazione dell'impatto del pascolamento su alcune torbiere del Parco Naturale Adamello-Brenta tramite lo studio delle diatomee estratte da carote di torba. Bachelor Thesis. *Corso di Laurea in Tecnologie Forestali e Ambientali*. Università di Padova. Supervisors: M. Cantonati, M. Scotton. Thesis defence: 16/12/2021. Awarded the highest grade for the Bachelor thesis. 53 pp.

12. DONINI Emma, 2020/2021. Valutazione dell'impatto del pascolamento su torbiera tramite lo studio di diatomee subfossili nel Parco Naturale Adamello-Brenta. Bachelor Thesis. *Corso di Laurea in Scienze Naturali. Alma Mater Studiorum* - Università di Bologna. Supervisors: M. Cantonati, J. Nascimbene, N. Angeli. Thesis defence: 16/12/2021. Awarded the highest grade for the Bachelor thesis. 46 pp.

11. BRUGNARA Nicolò, 2017/2018. *Diatomee litorali epilittiche nei laghi d'alta quota come indicatori di variazioni di livello e cambiamenti ambientali*. Bachelor Thesis in *Science and Technologies for the Environment*. University of Padua. Supervisors: Dr M. Cantonati, Dr N. Angeli, Prof. V. Matozzo & Prof. I. Moro. 52 pp. Thesis defence: 14/12/2018.

10. Ceschini Luca, 2018/2019. *Diatomee bentoniche delle sorgenti del Bayerischer Wald National Park in Baviera (Germania) come indicatrici della ripresa ambientale dall'acidificazione antropogenica*. Bachelor Thesis in *Sciences and Technologies for Nature and the Environment. Alma Mater Studiorum* - Università di Bologna. Supervisors: Dr M. Cantonati, Prof. Juri Nascimbene, Dott. Nicola Angeli. 50 pp.

9. MAESTRINI Elisa, 2016/2017. *Paleolimnology of a shallow mountain lake on siliceous substratum with special attention to water-level fluctuations*. Bachelor Thesis in Natural Sciences. University of Modena and Reggio Emilia. Supervisors: Prof. Francesca R. Bosellini, Dr N. Angeli, Dr M. Cantonati.

8. ZANINI Alessandro, 2013/2014. Impatti di gestione e uso del territorio sui tassi di senescenza e interrimento del Lago di Valagola, Parco Naturale Adamello-Brenta. Bachelor Thesis in *Mountain Environment Protection and Development*. UNIMONT - Università degli Studi di Milano sede di Edolo Supervisors: Prof. Anna Giorgi, Dr M. Cantonati.

7. SANTINI Chiara, 2011/2012. Distribuzione spaziale rispetto al livello idrometrico di filamenti maturi e immaturi dell'alga rossa *Bangia atropurpurea* e delle diatomee epifite sulle rive rocciose del Lago di Garda. Bachelor Thesis in *Science and Technology for the Environment*. University of Genoa. 25 pp. Supervisors: Dr. M. Cantonati, Prof. S. Salvidio. Thesis defence: 13/11/2012. Highest grade.

6. PARMESANI Mattia, 2009/2010. Valutazione della qualità ambientale, tramite l'utilizzo delle diatomee come bioindicatori, di tratti di riva del Lago di Garda alla fine degli anni Settanta e confronto con la situazione attuale. Bachelor Thesis in *Science and Technology for the Environment*. University of Padua. 31 pp. Supervisors: Dr. M. Cantonati, Dr. V. Matozzo. Thesis defence: 24/09/2010. Awarded the highest grade (5/5) for the Bachelor thesis.

5. BATTISTOTTI Martina, 2008/2009. Variabilità spazio-temporale delle diatomee epifite di *Bangia atropurpurea* (Rhodophyta, Bangiales) nel Lago di Garda. Bachelor Thesis in *Science and Technology for the Environment*. University of Padua. Supervisors: Prof. Paolo Cordella, Dr Marco Cantonati. Thesis defence: 19/12/2008 (Highest grade with honours). 64 pp.

4. SCALFI Alessia 2004/2005. *Caratterizzazione idrobiologica delle sorgenti di Stenico (Trentino occidentale) con particolare riferimento alle microalghe diatomee* - Scienze e Tecnologie per la Natura. Relatori: Prof. Giovanni Caniglia, Dr M. Cantonati. Università di Padova. 27/09/2005. 66 pp.

3. BELLA Erica 2003/2004. *Metodi fisici nell'analisi del fitoplancton del Lago di Tovel* - Tesi in Fisica Applicata. Relatori: Prof. Graziano Guella, Dr M. Cantonati. Univ. Trento. 20/10/2004. 83 pp.

2. NESPOLI Andrea, 2002/2003 – *Ricerca ecologica a lungo termine su tre sorgenti del Parco Naturale Adamello-Brenta: la diatomee di muschi idrofili e igrofili* - Tesi in Scienze e Tecnologie per la Natura. Relatori: Prof. Anna Occhipinti, Dr Marco Cantonati. Università di Pavia. 22/04/2004. 27 pp.

1. SIMONI Michela. *Sperimentazione in mesocosmi sul fitoplancton del Lago di Tovel*. Tesi di Laurea in Scienze Biologiche. Relatori: Dr M. Cantonati, Prof. G. Gasperi. Università di Pavia.

Tirocini curriculari UniBO:

1. BERRA Gabriele 2023/2024. Periphyton analysis within the PeriCarb 2023 sampling campaigns. Alma Mater Studiorum Università di Bologna. LM in Biodiversità ed Evoluzione. Supervisore: M. Cantonati.

Drexel Undergraduate Coop Students (at ANSP, PA, U.S.A.):

2017: Summyr Burroughs (co-Supervisor with Don F. Charles)

Short internships & small, additional, final student reports (Tesine etc.):

Brugnara N., 2017. Benthic diatoms from high-mountain springs and lakes. Environmental Sciences. University of Padova.

Gatti D., 2007-2008. Diatomee: biogeografia e ipotesi sulle modalità di dispersione. Università di Bologna. Laurea specialistica in Conservazione e Gestione del Patrimonio Naturale.

Other teaching activities

Jury Member (judge) of Student Awards and Fellowships (9)

9. *European Federation for Freshwater Sciences (SEFS11) 2019 11th Symposium*, Zagreb, Croatia, EU (June 30th-July 5th, 2019).
8. *Florian-Weighardt Fellowships*, Ghislieri College, Italy, to support Biology-Alumni 4-months study-abroad periods at Max Planck Institutes in Germany (research fields include: Microbiology & Ecology, Ecology & Plant Research); awarded to: Sofia Todesca-2018.
7. *Society for Freshwater Science (SFS) 2015 Annual Meeting*, Milwaukee, WI, USA (May 17-21, 2015).
6. *Joint Aquatic Sciences Meeting (JASM = SFS+ASLO+PSA+SWS) 2014*, Portland, Oregon, USA (May 19–23, 2014).
5. *Society for Freshwater Science (SFS) 2012 Annual Meeting*, Louisville, KY, USA (19-26 May, 2012).
4. *Central European Diatom Meeting, CEDIATOM6*, Innsbruck, Austria 22-25/03/2012.
3. *North American Benthological Society (NABS) 2011 Annual Meeting*, Providence, RI, USA (22-26 May, 2011).
2. *North American Benthological Society (NABS) 57th Annual Meeting*, Grand Rapids, MI, USA (17-22 May, 2009).
1. *Central European Diatom Meeting, CEDIATOM3*, Utrecht, The Netherlands 27-29/03/2009. Together with Herman Van Dam and Ingrid Jüttner.

Volunteer research assistants mentoring (7)

7. **Bernabé D.** April 2019 – July 2019. Diatoms in streams and springs. Diatom teratologies.
6. **Defrancesco C.** November 2015 – open end. Limnological and paleolimnological analyses.
5. **Borrini A.** November 2018 – April 2019. Diatoms from a river basin in Kenya.
4. **Rigotti D.** October 2017 – April 2018. Benthic diatoms in selected LTER springs.
3. **Nones F.** January – May 2015. Benthic-algae-based assessments & monitoring in springs.
2. **Van Wensen L.** November 2014- April 2015. Ecological characterization of diatom species.
1. **Stocchetti E.** November 2013-2014. Paleolimnology of Lake Valagola (diatoms).

Mentoring of visiting academic staff & Faculty (1)

1. Małgorzata **Bąk** and three other Colleagues, Szczecin University (Poland), Palaeoceanology Unit at Faculty of Geosciences. September 2013.

Academic evaluations (3)

Referee of University-Teaching Habilitation (*venia docendi*) theses (2)

3. Jana **Kulichova** (nee **Vesela**). 2024. What can morphology tell us about the evolution and ecology of diatoms? *Venia docendi*. Charles University in Prague. Department of Botany. Czech Republic.
2. Stefanie **von Fumetti**. 2017. Alpine Spring Ecology: Towards an understanding of species distribution and impacts of Global Change. *Venia docendi*. University of Basel. Departement of Environmental Sciences. Switzerland.

Promotion to Associate Professor (1)

1. 2017. Academic Promotions Committee. School: Biological Sciences. North-West University (NWU). South Africa.

In fede

Dr Marco Cantonati, PD Prof.