

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

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Marco Cantonati CURRICULUM VITAE

(N.B. IL CURRICULUM NON DEVE ECCEDERE LE 30 PAGINE E DEVE CONTENERE TUTTI GLI ELEMENTI UTILI ALLA VALUTAZIONE DEI TITOLI SOTTOPOSTI AL GIUDIZIO DELLA COMMISSIONE)

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	CANTONATI
NOME	MARCO
DATA DI NASCITA	19/04/1967

TITOLI

TITOLO DI STUDIO

(indicare la Laurea conseguita inserendo titolo, Ateneo, data di conseguimento, ecc.)

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.

TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

(inserire titolo, ente, data di conseguimento, ecc.)

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. [during Ph.D. studies (1993-1994) MC voluntarily attended 8 courses passing all exams with the highest marks].

ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

(inserire anno accademico, ateneo, corso laurea, ecc.)

RIASSUNTO: Teaching in international courses (Visiting Professorships, practical courses, summer schools, workshops) (12); Membership in Doctoral Studies Committees (*Collegio dei Docenti*)(3); PhD theses (Supervisor 7, Opponent 5, Reviewer 7, 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 (17); Bachelor theses (13); Volunteer Research Assistant (7); Post-Docs mentoring (3); Visiting scientist & junior-Prof mentoring (3); 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 146462/32-11 gemäß § 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**) (December 5th 2017 to December 5th 2026) + II fascia (at the rank of **associate professor**) (April 3rd 2018 to April 3rd 2027); ASN s.c. **05/C1 ECOLOGIA (Ecology)** - II fascia (at the rank of **associate professor**) (March 30th 2018 to March 30th 2027).

“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.

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)**. 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. Received high scores in student evaluation.

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.

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 (7):

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 (7+5+7+5+1)

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 H. 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 (5):

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. Pouličková. 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 (7):

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. Dottorato di ricerca AMBIENTE E VITA. 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. Garcia 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-Farafr 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.

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. *Achnanthes 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 (*lame*, Foresta del Cansiglio).

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

M.Sc. Theses (17) - Lauree Magistrali:

17. CID RODRÍGUEZ María 2021/2022. *Indagini paleoecologiche su torbiere e laghi di montagna con focus sulle diatomee per ricostruire gli effetti di impatti antropici diretti e del cambio climatico*. Laurea magistrale in biotecnologie per le biorisorse e sviluppo ecosostenibile (LM-8). University of Verona. Supervisors: Zacccone C. & Cantonati M. xxx pp. Thesis defence: xxxx xxth 202x.

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. 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. Univ. 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.

Bachelor Theses (13) - Lauree triennali:

13. PEZZATO Simone, 2020/2021. *Ricostruzioni paleoambientali e paleoclimatiche tramite le tafocenosi di diatomee del sedimento di un lago di montagna in avanzato stadio di interrimento*. Bachelor Thesis in *Forestry and Environmental Science*. University of Padua. Supervisors: Dr M. Cantonati, Prof. Michele Scotton.

12. DONINI Emma, 2020/2021. *Impatto del pascolo su torbiere del Parco Naturale Adamello-Brenta ricostruito tramite le microalghe diatomee*. Bachelor Thesis in *Science and Technologies for the Environment*. Università di Bologna. Supervisors: Dr M. Cantonati, Prof. Juri Nascimbene.

11. BRUGNARA Nicolò, 2017/2018. *Diatomee litorali epilitiche 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. 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.

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. Borriani 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).

Post-Doc mentoring (3)

3. Abdullah A. **Saber**. 2019 (January-June). 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). 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.

Visiting scientist & junior-Prof mentoring (3)

3. Olena **Bilous**. 2022 (online since 2020). Diatom communities from Mediterranean streams of the Island of Cyprus. **National Academy of Sciences of Ukraine**, Kyiv, **Ukraine**.
2. Ali **Hamadai**. 2022? (online since 2020). Diatom assemblages combined with sedimentological analyses of Quaternary (Holocene) lake deposits in the Algerian Sahara (*Erg Er Raoui* and Western Great Erg) for palaeoenvironmental reconstructions. **University of Hassiba Ben Bouali** in Chlef, **Algeria**.
1. Abdullah A. **Saber**. 2019 (July-October). Diatom communities in Mediterranean streams. **Ain Shams University**, Cairo, **Egypt**.

Mentoring of visiting academic staff & Faculty (1)

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

Academic evaluations (2)

Referee of University-Teaching Habilitation (*venia docendi*) theses (1)

1. 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. Senior lecturer Sanet **Janse van Vuuren**. 2017. Academic Promotions Committee. School: Biological Sciences. North-West University (NWU). South Africa

DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;

(inserire anno accademico, ente, corso, ecc.)

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)**. [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: *Research Scientist* within the *Trentino Nature & Science Museum* (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]

2010-2012: **Research Associate ISE (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*).

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

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. Poulíčková (2014). • 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).

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.

DOCUMENTATA ATTIVITÀ IN CAMPO CLINICO

(indicare, data, durata, ruolo, ente presso il quale si è prestata attività assistenziale, ecc.)

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REALIZZAZIONE DI ATTIVITÀ PROGETTUALE

(indicare, data, progetto, ecc.)

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ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI, O PARTECIPAZIONE AGLI STESSI

(per ciascuna voce inserire anno, ruolo, gruppo di ricerca, ecc.)

R&D Funding acquisition: Scientific coordinator or WP / task coordinator of >30 Projects / international tenders / consultancies. **Total budget managed** (ca. 2 Millions EURO). **10 main ones:** 1) **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. 2) **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. 3) **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**). 4) **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). 5) **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**. 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 - Environmental-Impact Evaluation Dept; 2012). **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). **8) 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 I, II, III* (2012-2013, 2018-2019, 2020-2022; Project funded by the Government of Cyprus - Water Development Department, EU), **Eurostars Project WAT-DIMON 'Morphotaxonomic and metabarcoding investigation of diatoms in Cyprus'** (WP3) (Project funded by the European Union; 2021). **9) *Diatoms from springs of two Bavarian National Parks &ILTER (DiSpri-BNP)***; 2018-2019, promoted by the Ministry of the Environment of Bavaria (Germany). **10) DIRITTI (*Diatoms from RivuleTs in the river-Ticino area nature preserves*)** (2019-2021).

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>); **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.

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., Glazier D.S., Stevens L.E., Fensham R.J., Death G., Gargini A., Gerecke R., Goldscheider N., Knight R.L., Muotka T., Richardson J.S., Segadelli S., Springer A.E., Tockner K. & J.D. Wehr. 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.

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.

Service (Management, Committees, Panels etc.) & Professional Experience: • Administration work, in particular for the management of the Limnology & Phycology Section (research, collections, educational activities). • **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). • **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). • 03/11/2020: Selected to serve on the **NEON (National Ecological Observatory Network) Technical Working Group (TWG) 'Algal Taxonomy'**. • **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. • **Administrative Committee of the Adamello-Brenta Nature Park** (1996-

2016). • Scientific Committee of the *Museo Tridentino di Scienze Naturali* and of the journal *Studi Trentini di Scienze Naturali* (1995-2005).

TITOLARITÀ DI BREVETTI

(per ciascun brevetto, inserire autori, titolo, tipologia, numero brevetto, ecc.)

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ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

(inserire titolo congresso/convegno, data, ecc.)

International invited talks: (4+5+5):

- invited talks at scientific congresses (4):

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 and contributions to round-table discussions (5):

5. *Ecological and morphological data on some of the main Achnanthes 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).

4. *Stand der biologischen Forschung an Quellen*. Abschlusstagung LIFE-Natur-Projekt „Kalktuffquellen in der Frankenalb“. LBV-Umweltstation Altmühlsee, Muhr am See, 16-17 Ottobre 2007.

3. *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).

2. *Wasserscheichtum 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

1. *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

List of talks given (75)

International (47):

47. Cantonati M., Spitale D., Donini E., Galluzzi G., Angeli N. & Zacccone 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]

46. Cantonati M., Charles D.F., Kelly M.G., Lowe R., R.D. Mazon, 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).

45. 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).

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 2012. 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., Kociolek 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 Quellforschung 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] (28):

28. 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 talk]
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 talk]
24. 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.
23. 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).
22. 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.
21. 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.
20. 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.
19. 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.
18. 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.
17. 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).
16. 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.
15. 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)
14. 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.
13. 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.
12. Cantonati M. 2004. Intervento alla Presentazione del volume "I trecento laghi del Trentino" di Gino Tomasi (18/11/2004, Trento).
11. 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.
10. 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.
9. 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.
8. 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."
7. 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.
6. 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 talk]
5. 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.
4. 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.
3. 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.
2. Cantonati M. 1999. Le sorgenti ed i laghi alpini (1999, 105th Congress of the Trentino Section of the Italian Alpine Club, Storo, Trentino) [invited talk]
1. Cantonati M. 1996. Le Diatomee: un mondo di vetro (1996, Ghislieri College, Pavia) [invited talk]

k) Congress Abstracts - Posters (only those referring to works not published in extenso on the Proceedings) (80) [ONLY LAST 5 YEARS SHOWN] [presenting authors underlined when different from MC]:

2021

80. Cantonati M., Bilous O. & Saber A.A. 2021. Morphological and ecological characterization of three new symmetric biraphid (naviculoid) diatom species from streams of the Island of Cyprus. Phycological Society of America - PSA 2021 Virtual Meeting - July 13-22, 2021.

2019

79. Borrini A., Gumiero B., Pacini N. & Cantonati M. 2019. Longitudinal patterns of epiphytic diatom communities from a small river in the African Eastern Rift Valley (Kenya). 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): 484. Publisher: Croatian Association of Freshwater Ecologists.

2018

78. Cantonati M., Ector L., Angeli N., Boutarfa S., Ciugulea I., Saber A.A. & Lange-Bertalot H. 2018. Interesting *Caloneis* species from Mediterranean, tropical or subtropical streams, and hot springs and boreholes. International Workshop for the identification of algae used in environmental assessments. September 12th-14th, Gdynia, Poland.

77. Lai G.G., Ector L., Cantonati M., Padedda B.M., Lugliè A. & Wetzel C.E., 2018. *Chamaepinnularia thermophila*: new observations from a thermal spring in Central Sardinia (Italy). 25th International Diatom Symposium (June 25-30 2018, Berlin, Germany). Abstract Book: xx.

76. Bolpagni R., Laini A., Bagella S., Bartoli M., Cantonati M., Poikane S. 2018. Small standing water ecosystems: Current trends and perspectives in ecological value and conservation. 8th European Pond Conservation Network (EPCN) Workshop, May 21st-25th 2018, Torroella de Montgrí, Girona, Spain.

2017

75. Lai G.G., Padedda B.M., Cantonati M., Ector L., Wetzel C.E., Sechi N. & Lugliè A. 2017. Diatom communities of the Casteldoria thermo-mineral spring (Northern Sardinia, Italy): first results. XXIII Congresso Associazione Italiana di Oceanologia e Limnologia (AIOL), September 26th-29th 2017, Cagliari, Italy.

74. Lai G.G., Padedda B.M., Cantonati M., Ector L., Wetzel C.E., Sechi N. & Lugliè A. 2017. Les communautés de diatomées de la source thermo-minérale de Casteldoria (Sardaigne du Nord, Italie): premiers résultats. 36ème Colloque de l'Association des Diatomistes de Langue Française (ADLaF), 12-14 Sept 2017, Dijon, France. 2016
73. Saber A.A., Cantonati M., Mareš J., Anesi A. & Guella G. 2016. Multifaceted characterization of *Westiellopsis prolifica* (Cyanobacteria) from the El-Farafra Oasis (Western Desert, Egypt). 20th IAC Cyanophyte/Cyanobacteria Research Symposium (Aug 28th-Sep. 2nd 2016, Innsbruck, Austria). Abstract Book: xx.
72. Cantonati M., Saber A., Blanco S., El-Gamal D.A., Shehata, F.E. & El-Refaey A.E.A. 2016. *Seminavis aegyptiaca* sp. nov., a new epilithic diatom species from the estuary of the Damietta Branch of the River Nile (Egypt). 24th International Diatom Symposium (August 21-27 2016, Québec City, Canada). Abstract Book: xx.
71. Cantonati M., Saber A., Blanco S., El-Refaey A.E.A., Shehata, F.E. & El-Gamal D.A., 2016. Observations on some rarely-recorded *Navicula* species from Egyptian inland waters including the recently-described *N. flandriae*. 24th International Diatom Symposium (August 21-27 2016, Québec City, Canada). Abstract Book: xx.

Organization of International Congresses & Special sessions (17)

17. Co-Inventor & Member of the *International Scientific Committee* of the 1st *International Conference on Spring-Ecosystems Science*, MNA Springs Stewardship Institute, Flagstaff, AZ, mid-May 2021.
16. Member of the *International Scientific Committee* of the 14th *Central European Diatom meeting*, May 18th-21st 2021, Lake Ohrid, Republic of Northern Macedonia.
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 *Ecology 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.

CONSEGUIMENTO DI PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA (inserire premio, data, ente organizzatore, ecc.)

Scientific awards: • 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). • May 27th 2020: MC inserito tra i Top Italian Scientists (TIS) [<http://www.topitalianscientists.org/home>]. • Oct 16th 2020: MC Top 2% worldwide Scientists in 'Marine Biology & Hydrobiology' [Updated science-wide author databases of standardized citation indicators. PLoS Biol 18(10): e3000918]. • 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). • 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]: • 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. • 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. • 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).

Taxonomic achievements: • 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 new genera: *Microfissurata*, *Neidiomorpha*, *Rhoicosphenula*; 22 new species; numerous comb. nov. - Cyanoprokaryotes: 1 new species. - Green algae: 1 new genus: *Pharao*; 3 new species.

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).
Participation to Scientific Societies (10): • International Society of Limnology (SIL), • Society for Freshwater Science (SFS, formerly N.A.B.S.) (since 2012 Member of the International Coordination Committee), • Ecological Society of America (ESA), • International Association of Hydrogeologists (IAH), • European Geosciences Union (EGU), • International Society Diatom Research (ISDR), • International Phycological Society (IPS), • 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).

POSSESSO DEL DIPLOMA DI SPECIALIZZAZIONE EUROPEA RICONOSCIUTO DA BOARD INTERNAZIONALI (relativamente a quei settori concorsuali nei quali è prevista)
(indicare diploma, data di conseguimento, ecc.)

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TITOLI DI CUI ALL'ARTICOLO 24 COMMA 3 LETTERA A) E B) DELLA LEGGE 30 DICEMBRE 2010, N. 240
(indicare se contratto di tipologia A o B, Ateneo, data di decorrenza e fine contratto, ecc.)

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PRODUZIONE SCIENTIFICA

PUBBLICAZIONI SCIENTIFICHE

(per ciascuna pubblicazione indicare: nomi degli autori, titolo completo, casa editrice, data e luogo di pubblicazione, codice ISBN, ISSN, DOI o altro equivalente)

RIASSUNTO: a) Research Articles on ISI International Journals with IF (105); b) International Virtual and Special Issues, Book Chapters and Books (25); c) Research Articles on International Refereed Proceedings (14); d) Textbooks or book chapters that can be used as aquatic-science teaching material; multilingual (11); e) Research Articles on Refereed National ISI Journals & National Refereed Proceedings (26); f) Online Publications: Peer Reviewed (1) [not shown]; g) Book Reviews / Book discussions (2) [not shown]; h) National Special Issues, Monographic Volumes, Books or Book Chapters (19) [not shown]; i) Papers and book chapters for the popularization of freshwater ecology & phycology topics (48) [not shown]; j) Congress Abstracts - Oral presentations (only those referring to works not published in extenso on the Proceedings) (84); k) Congress Abstracts - Posters (only those referring to works not published in extenso on the Proceedings) (80) [please see: 'Attività di relatore a congressi...' but ONLY LAST 5 YEARS].

a) Scientific Papers on ISI International Journals with IF (105):

2021

105. 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, x. DOI: 10.3390/xxxxx. [*Corresponding author]

104. Saber A.A., Angeli N., Lange-Bertalot H., Kocielek 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*. In press. [*Corresponding author]

103. 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

102. Hájek M., Jiménez-Alfaro B., Hájek O., Brancaloni 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

101. 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

2020

100. Cantonati M., Kelly M.G., Demartini D., Angeli N., Dörfliinger 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

99. 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. 2020. Urgent plea for global protection of springs. *Conservation Biology* 35(1): 378-382. DOI: 10.1111/cobi.13576

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

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., Čvrtlíková 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/fot.2019.015

2019

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
- 2018
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
81. Niedrist H.G., Cantonati M. & Füreder L. 2018. Environmental harshness mediates the quality of periphyton and chironomid body mass in alpine streams. *Freshwater Science* 37(3): 519-533. DOI: 10.1086/699480
80. Saber A.A., Mareš J., Guella G., Anesi A., Štenclová L. & Cantonati M. 2018. Polyphasic approach to a characteristic *Ulva* population from a limno-rheocrenic, mineral (chloride, sodium, sulphate) spring in the Siwa Oasis (Western Desert of Egypt). *Fottea* 18(2): 227-242. DOI: 10.5507/fot.2018.008
79. Cantonati M., Lange-Bertalot H., Kelly M. & Angeli N. 2018. Taxonomic and ecological characterization of two *Ulnaria* species (Bacillariophyta) from streams in Cyprus. *Phytotaxa* 346(1): 078-092. DOI: 10.11646/phytotaxa.346.1.4
78. Janse van Vuuren S., Saber A.A., Swanepoel A. & Cantonati M. 2018. Can the presence of curved forms of the diatom *Aulacoseira ambigua* in the Nile (Egypt) and Vaal (South Africa) Rivers be ascribed to similar water quality conditions? *African Journal of Aquatic Science* 43(2): 111-122. <https://doi.org/10.2989/16085914.2018.1455575>
77. Saber A.A., Kouwets F.A.C., Haworth E.Y. & Cantonati M. 2018. A new *Euastrum* species (Conjugatophyceae, Streptophyta) from the Western Desert of Egypt. *Cryptogamie Algologie* 39(2): 1-12. DOI: 10.7872/crya/v39.iss2.2018.1
76. Saber A.A., Ballot A., Schneider S. & Cantonati M. 2018. Morphological and molecular features of a *Chara vulgaris* population from desert springs on the Sinai Peninsula (Springs of Moses, Egypt). *Botany Letters* 165(1): 77-89. <https://doi.org/10.1080/23818107.2017.1352535>
75. Saber A.A., Hamed S.M., Abdel-Rahim E.F.M. & Cantonati M. 2018. Insecticidal prospects of algal and cyanobacterial extracts against the cotton leafworm *Spodoptera littoralis*. *Vie et Milieu - Life and Environment* 68(4): 199-212.
- 2017
74. Taxböck L., Linder H.P. & Cantonati M. 2017. To what extent are Swiss springs refugial habitats for sensitive and endangered diatom taxa? *Water* 9(12): 967. DOI: 10.3390/w9120967
73. Rosati M., Rossetti G., Cantonati M., Pieri V., Roca J. & Mesquita-Joanes F. 2017. Are aquatic assemblages from small water bodies more stochastic in dryer climates? An analysis of ostracod spring metacommunities. *Hydrobiologia* 793: 199-212. DOI: 10.1007/s10750-016-2938-9
72. Saber A.A., Ichihara K. & Cantonati M. 2017. Molecular phylogeny and detailed morphological analysis of two freshwater *Rhizoclonium* strains from contrasting spring types in Egypt and Italy. *Plant Biosystems* 151(5): 800-812. DOI: 10.1080/11263504.2016.1211195
71. Saber A.A., Cantonati M., Mareš J., Anesi A. & Guella G. 2017. Polyphasic characterization of *Westiellopsis prolifica* (Hapalosiphonaceae, Cyanobacteria) from the El-Farafra Oasis (Western Desert, Egypt). *Phycologia* 56: 697-709. DOI: 10.2216/16-107
70. Kusber W.-H., Cantonati M. & Lange-Bertalot H. 2017. Validation of five diatom novelties published in "Freshwater Benthic Diatoms of Central Europe" and taxonomic treatment of the neglected species *Tryblionella hantzschiana*. *Phytotaxa* 328: 090-094. DOI: 10.11646/phytotaxa.328.1.6
69. Wołowski K., Saber A.A. & Cantonati M. 2017. Euglenoids from the El Farafrā Oasis (Western Desert, Egypt). *Polish Botanical Journal* 62(2): 241-251. DOI: 10.1515/pbj-2017-0017
68. Vidaković D., Cantonati M., Mogna M., Jakovljević O., Sanja Šovran, Lazović V., Stojanović K., Đorđević J. & Krizmanić J. 2017. Additional information on the distribution and ecology of the

recently described diatom species *Geissleria gereckeii*. *Oceanological and Hydrobiological Studies* 46: 18-23.

2016

67. Poikane S., Kelly M.G. & Cantonati M. 2016. Benthic algal assessment of ecological status in European lakes and rivers: challenges and opportunities. *Science of the Total Environment* 568: 603-613. DOI: 10.1016/j.scitotenv.2016.02.027

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