

## Curriculum Vitae

Prof. Diana Maria Paola Galassi

### General Information

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### Academic position

Full Professor in the SSD BIO/05 (Zoologia) at the University of L'Aquila.

### Academic CV and roles in the University Governance

**2018-today** President of the Teaching Council in Environmental Sciences.

**2018 – today**. Elected Member of the Academic Senate representing the Department of Life, Health and Environmental Sciences .

**2017**. National Scientific Qualification as Full Professor (ASN).

**2015**. Appointment of service as Associate Professor confirmed at the University of L'Aquila.

**2013**. Appointment of service as not confirmed Associate Professor at the University of L'Aquila.

**2013 – today**. Coordinator of the Teaching Board of the Interclass Master Degree (LM6/LM75) and scientific manager of the Italian-French double degree in Environmental Biology and Management of Ecosystems.

**2009 – today**. Coordinator and Responsible for Italy of the double Italian / French Master Degree in Environmental Biology and Ecosystem Management.

**2007-2010**. Elected member representing the University Researchers at the Academic Senate of the University of L'Aquila (D.R. n. 3119-2007).

**1997-2008**. Member of the Faculty Board of Sciences MM.FF.NN. and Member of the Scientific Commission and the Teaching Commission of the Faculty of Sciences MM.FF.NN.

**1992**. Permanent position as University Researcher in the SSD BIO/05 (Zoology).

**1988**. Subject expert in Zoology.

**1988**. Permanent position as technician in the staff of the Department of Environmental Sciences (zoological area).

**1986-1988**. Holder of a three-year contract at the Department of Environmental Sciences of the University of L'Aquila, with a rectoral decree, pursuant to law n. 28 of 11.2.1980 and pursuant to art. 26 of the D.P.R. 11.7.1980, n. 382 as technician for the use of particularly complex equipment.

### Training and Education

**1985**. Theoretical-practical training according to the D.P.R. n. 980 of 28.10.82. Qualification to practice as a biologist on 22.4.1985.

**1984**. Master Degree in Biological Sciences at the Faculty of Sciences MM.FF.NN. (University of L'Aquila) with 110/110 *cum laude*.

## Teaching activity

**Since 1985.** Seminars and theoretical-practical exercises in the classes of Zoology I, Zoology II, Systematics Zoology and Ecology with the task of expert in the subject (Zoology).

**A.Y. 1997/98-1998/99, 1999/00.** Course of Freshwater Ecology

**A.Y. 2000/2001.** Course of Advanced Zoology (Zoology II) (first module)

**A.Y. 2001/2002.** Course of Zoocenosis and Wildlife Conservation

**A.Y. 2002/2003.** Course of Animal and Plant Biology (first module), Course of Zoocenosis and Wildlife Conservation.

**A.Y. 2003/2004.** Course of Animal Biology, Course of Zoocenosis and Wildlife Conservation.

**A.Y. 2004/2005.** Course of Zoocenosis and Wildlife Conservation, Course of Faunal Resources Management (first module).

**A.Y. 2005/2006.** Course of Zoocenosis and Wildlife Conservation, Course of Faunal Resources Management (first module), Course of Animal Biology (second module); Course of Zoology.

**A.Y. 2007/2008.** Course of Zoocenosis and Wildlife Conservation, Course of Faunal Resources Management, Zoological Monitoring Laboratory Course.

**A.Y. 2008/2009.** Course in Animal Biology and Laboratory of Zoology, Groundwater biology course, Course of Zoology.

**A.Y. 2009/2010.** Course in Animal Biology and Laboratory of Zoology, Course of Applied Zoology, Groundwater biology course, Laboratory course of microscope techniques.

**A.Y. 2010/2011.** Course of Methods of Biodiversity Analysis with field and lab activities on the field for the double degree in Environmental Biology.

**A.Y. 2011/2012.** Course of Methods of Biodiversity Analysis with field and lab activities on the field for the double degree in Environmental Biology and seminar activity in the course of Zoology in the bachelor degree in Biology.

**A.Y. 2012/2013.** Course of Animal Biology, Course of Methods of Biodiversity Analysis with field and lab activities on the field.

**A.Y. 2013/2014.** Course of Animal Biology, Course of Methods of Biodiversity Analysis with field and lab activities on the field.

**A.Y. 2014/2015.** Course of Animal Biology, Course of Methods of Biodiversity Analysis with field and lab activities on the field. Free choice course AFO: Biodiversity analysis in freshwater environments.

**A.Y. 2015/2016.** Course of Animal Biology, Course of Methods of Biodiversity Analysis with field and lab activities on the field. Free choice course AFO: Biodiversity analysis in freshwater environments.

**A.Y. 2016/2017.** Course of Animal Biology, Course of Methods of Biodiversity Analysis with field and lab activities on the field. Free choice course AFO: Biodiversity analysis in freshwater environments.

**A.Y. 2017/2018.** Course of Animal Biology, Course of Methods of Biodiversity Analysis with field and lab activities on the field.

**A.Y. 2018/2019.** Course of Animal Biology, Course of Methods of Biodiversity Analysis with field and lab activities on the field.

### **Further educational activities and management support**

**2017 – today.** Member of the UNITE-UNIVAQ inter-university accredited PhD Board in Cellular and Molecular Biotechnology.

**2014 - 2016:** Member of the accredited PhD Board in Life Sciences and Environment.

**2014 – 2017.** Member of the Scientific Commission of the Department MeSVA.

**2014 – today.** Member of the of the Guidance and Tutoring Commission of the Department MeSVA for the section “Environment”.

**2014 – today.** Responsible for the Internationalization (mobility ERASMUS plus, Placement, Mundus) and tutoring for students enrolled in the three-year degree in Environmental Sciences and the master degree in Environmental Biology and Management of Ecosystems.

**2014 – today.** Responsible for the compilation SUA U-Gov, the RdR (*Rapporto del Riesame*) and the *Tuning* for the master degree course in Environmental Biology and Management of Ecosystems.

**2009 - today.** Coordinator of the Teaching Board and President of the teaching committee of the Italian-French double-degree in Environmental Biology and Ecosciences and Biodiversity.

**2007.** External Member of the PhD commission: National Institute of Amazonian Researches-INPA (Brazil) - Freshwater Biology and Interior Fisheries (Dr. Paulo Corgosinho).

**2014.** External Member of the PhD commission at the University of Nova Gorica - Slovenia (Dr. Allen Wei Lu).

**2014:** Internal Member of the PhD commission at the University of L’Aquila.

**2013.** External Member of the PhD Commission at the University “La Sapienza” (Rome, Italy)

**2012:** External Member of the PhD Commission at the University of Nova Gorica - Slovenia (Dr. Uros Zibrat).

**1994 – today.** Tutor of n. 17 experimental theses in Environmental Biology and Ecology of Groundwater and 5 international master theses for the achievement of the dual master degree in Environmental Biology. Tutor of 7 PhD students. Tutor of 9 post-doc students (3 of them co-granted by the University of L’Aquila, 6 post-docs granted by my projects, some of them renewed from 2 to 4 years); 4 research grants, renewed from 2 to 5 years), 8 research contracts.

### **Mobility prior selection for research and teaching**

**2017.** Invitation as expert teacher to hold an intensive course in the international workshop organized by the Scripps Institution of Oceanography (La Jolla, San Diego, U.S.A.) for PhD students and young researchers selected for a specialized course in Copepodology.

**2014.** Invitation as an expert teacher to hold an intensive course at the University of Chonnam (Yeosu - Korea) as part of the workshop organized by the University of Yeosu (Korea) in collaboration with the University of Hanyang (Seoul) as part of the training workshop for internationally selected PhD students and graduates for a specialized course in Copepodology. Certificate of appreciation.

**2013 (04/01/2013-08/02/2013).** Winner of a granted Visiting Professor position, qualifying first, at the University of Lyon Claude Bernard, Lyon 1, France, both for teaching and research activities (decree doc090712-09072012104442 of 20 June 2012), framed as a first-class professor.

**2010.** Erasmus teachers mobility through selection at the University of Lyon for research and implementation of the Learning Agreement between the two associated universities for the purposes of obtaining a double degree and for research activity (23/02 / 2010-01 / 03 / 2010); 04/11 / 2010-14 / 11/2010; 7/11 / 2014-13 / 11/2014 on own research funds).

**1997 (1-20 July 1997).** Invitation for granted research internships at the University of Lyon (research group "Hydrobiologie et Ecologie Souterraines du laboratoire d'Ecologie des Eaux douces et des grands fleuves").

## **Professional Activity**

**2010.** Scientific Coordinator of outsourcing funded by the Abruzzo region - water industry and public water resources inherent in the Impact Assessment of the PTA (*Piano di Tutela delle Acque*) and NTA (*norme tecniche di attuazione*).

**2009.** Responsible of n. 2 Environmental Impact Assessments for the Province of L'Aquila - Viability Sector - of n. 2 projects of consolidation of rocky slopes on the SP. 38 (Fontavignone - Terranera - Rocca di Mezzo) and on the SP. 7 (Calascio - Castel del Monte).

**2008.** Author of copyright (2008) approved by the S.I.A.E. (OLAF sector, unpublished works) of the expert system (software) called HYES/GEcoR® aimed at evaluating and scoring functioning, vulnerability and risk in the hyporheic zone of river ecosystems and the calculation of the ecological risk in groundwater.

**2008.** Responsible for the environmental impact assessment in the Gran Sasso-Monti della Laga National Park, relating to water abstraction from the Fonte Cannelli spring for the Fonte Cannelli Spa.

**2007.** Responsible of *post-operam* environmental impact assessment relating to the works of hydraulic risk containment of the River Sagittario in the municipalities of Pratola Peligna, Roccacasale and Corfinio (AQ) for the Province of L'Aquila - Environment Sector - in the site SIC IT7110097.

**2002.** Teacher on the vulnerability and biology of groundwater as part of the II level Degree in Landscape Restoration in Mountain Ecosystems (Pescostanzo, 2002) organized by the INFA.

**2001-2002.** Collaborator in the "Natura 2000" project - Fauna d'Italia Check-list - (Coordinator Prof. Sandro Ruffo) for the taxonomic groups of her own competence (Crustacea: Copepoda: Harpacticoida).

**2001.** Cycle of lectures on environmental impact assessment methodologies in the aquatic environment as part of a II level Master course, organized by the University of L'Aquila (Facoltà di Ingegneria).

**2000.** Invitation to technical-specialist seminar within the training course: " Metazoi delle acque sorgive e sotterranee" organized by the ARPAL (Agenzia Regionale per l'Ambiente Ligure), by the University of Genova, ANPA (Agenzia Nazionale per l'Ambiente), ISS (Istituto Superiore di Sanità); CTN\_AIM (Centro Tematico Nazionale Acque Interne e Marino Costiere); CISBA (Centro Italiano Studi di Biologia Ambientale); Genova Province.

**1994.** Complete cycle of lessons on the biology of karstic areas in general, with particular reference to Italian karst, in the framework of a course financed by the European Communities to the Abruzzo Region for speleological guides.

**1998-1999.** Expert assignment for the formulation of a new protocol of the biological evaluation of vulnerability of spring systems for drinking purposes by the A.S.L. Sulmona-Avezzano (Prot. n. 498 of 17/07/1988).

## **Invited conferences**

**2017.** Keynote speaker at the International Congress PENROSE 2017 (September 2017, Apiro, Marche) organized by the *Geological Survey of America* entitled: *Stygobitic crustacean fauna in the hypogenic sulfidic caves of Frasassi (Italy): a challenge in a challenging environment?*

**2017.** Invited Conference entitled: *Ecological risk assessment in groundwater*, San Lawrenz, Malta, April 25-26 – European Commission – Directorate - General Environment – Groundwater Panel  
(web link: <https://circabc.europa.eu/faces/jsp/extension/wai/navigation/container.jsp>).

**2017.** Invited conference entitled: *Using conservation concern of copepod species for groundwater habitat prioritization*. 13th WAC international symposium, Los Angeles, U.S.A., July 14-20 2017.

**2016.** Invited Conference entitled: *Towards an EQS assessment in groundwater bodies: ammonium contamination and response of groundwater copepods*. IHA CONGRESS, Montpellier, September 25-29 2016 (Session 8.09 - A focus on groundwater ecology).

**2015.** Invited lecture entitled: *LIFE+ project AQUALIFE: biological indicators for GDE classification* at the 29th CIS-Groundwater Working Group Meeting (Luxembourg, October 5-6 2015) – European Commission – Directorate - General Environment – Groundwater Panel (web link: <https://circabc.europa.eu/w/browse/10f5dc59-9099-4ac0-a03d-93646942cfb5>).

**2014.** Plenary lecture: SYMPOSIUM 3: GROUNDWATER QUALITY AND COPEPODS entitled: *Global trends and environmental challenges in groundwater dependent ecosystems: the copepod response*, 12th WAC international symposium, Seoul, Korea, July 14-18 2014.

**2013.** Invited lecture entitled: *Ecosistemi dipendenti dalle acque sotterranee: biodiversità, funzioni ecosistemiche ed effetto dei cambiamenti climatici* within the workshop organized and granted by the CMCC (Centro Europeo-Mediterraneo sui Cambiamenti Climatici) "Gli ecosistemi di acque interne e di transizione nella strategia nazionale per l'adattamento al cambiamento climatico: stato delle conoscenze e priorità di intervento" into the project SNAC during the XXI Congress A.I.O.L. (Lignano Sabbiadoro, Udine, Terrazza a Mare, September 24 2013).

**2011.** Invited conference entitled: *Dissecting copepod diversity at different spatial scales in Southern European ground water* (Symposium 1), 11th WAC international symposium, Mérida (Messico), July 10-15 2011.

**2008.** Invited lecture by the Accademia Nazionale dei Lincei entitled: *Invertebrate response to anthropogenic disturbance in the Abruzzi region (central Italy): assessment of water quality and new tools for freshwater biomonitoring*.

**2007.** Invited Conference by the Gran Sasso-Laga national park entitled: *Conservazione della biodiversità acquatica in aree protette*.

**2007.** Invited Conference by the national excellence centre CETEMPS (*Integration of remote sensing techniques and modelling for the forecast of severe weather*) entitled: *Desertificazione e Conservazione della Biodiversità Acquatica: analisi di un conflitto a scala globale*.

**2006.** Invited Conference by the Water Board of the L'Aquila Province entitled: *Analisi dei pattern di biodiversità acquatica a scala di bacino*.

**2005.** Invited Conference at symposium entitled: *Il Progetto UE-Pascalis: dall'analisi alla gestione della biodiversità acquatica sotterranea a scala Europea*. 66th National Congress Unione Zoologica Italiana (Rome).

**2002.** Invited conference: *Copepods in groundwater: a review*. XVI International Symposium of Biospeleology, Verona September 8-15 2002.

**1999.** Invited Plenary lecture entitled: *Groundwater copepods: diversity patterns over evolutionary and ecological scales*", 10<sup>th</sup> WAC International Symposium, Curitiba, Brazil.

#### **Chairman and organizer of symposia and conference sessions**

**2018.** Organizer, as scientific manager, of the International Congress AQUALIFE (L'Aquila, 4-6 July 2018).

**2016.** Co-organizer of the symposium "Ambienti Sotterranei" (UZI) - Joint Congress UZI, SitE, SIB (Milano Bicocca, 30 August - 2 September 2016).

**2016.** Organizer and chairman of the special session SS31 - *Groundwater and dependent ecosystems: from theory to practice* - SIL Congress (International Society of Limnology - (31 July - 5 August 2016, Turin) (certificate of appreciation).

**2014.** Organizer and chairman at the symposium of the 12th WAC Congress, 14-18 July 2014, Hanyang University Seoul.

**2004.** Member of the Scientific Committee International Symposium on Groundwater Biodiversity, Lyon, 2004.

**2004.** Chairman and communication by invitation TWIMCO- Twelve International Congress of Meiobenthology, Ravenna, July 11-16, 2004.

### **Honors and Awards**

**2017.** Voted President of the WAC (World Association of Copepodologists) from 2017 to 2020.

**2014.** Voted Vice-President of the WAC (World Association of Copepodologists) from 2014 to 2017.

**2014.** Invited Member of the IUCN SSC- Cave Invertebrate Specialist Group Group (letter of appointment)

**2002.** Invitation by the Publishers of the scientific journal *Freshwater Biology* to collaborate in the creation and editing of a monography published by Backhuys (The Netherlands) addressed to the ecology and biology of the meiofauna of the lotic and lentic systems published in the book "Freshwater meiofauna: biology and ecology" (2002). In the aforementioned volume she is the author of two different chapters.

**1986.** Winner of the research contribution "A. & T. Ghigi " by the Accademia delle Scienze dell'Istituto di Bologna.

### **Attività di coordinamento e partecipazione a Progetti di Ricerca nazionali e internazionali**

- 1. 2013-2018. Principal Investigator** of the project AQUALIFE granted by the European Community in the frameworks of the LIFE+ entitled: "*Development of an innovative and user-friendly indicator system for biodiversity in groundwater dependent ecosystems*" LIFE12 BIO/IT/000231. **1.705.964,00 €** of which **848.585,00 €** granted by the EC.
- 2. 2013-2015. Winner of the VINCI French-Italian International project** for student exchange (outgoing and incoming) for the achievement of the dual master degree in Environmental Biology and Ecosciences and Biodiversity (first position in the international competition). **29.400,00 €**.
- 3. 2012-2013. Principal Investigator** of the project financed by the Popoli municipality (Pescara province, Abruzzo) for the assessment and conservation of the invertebrate biodiversity of the Pescara spring system. **10.963,00 €**.
- 4. 2010. Principal Investigator** of the project granted by the Gran Sasso-Laga national park aimed at analysing the biodiversity of the Pesciano spring system and the effects of the hydrogeological changes related to the 2009 earthquake in L'Aquila (Abruzzo). **10.000,00 €**.
- 5. 2008-2010. Principal Investigator** of the project granted by the Gran Sasso-Laga national park entitled: "Analisi della biodiversità delle sorgenti del massiccio del Gran Sasso – Monti della Laga: proposte di biomonitoraggio e conservazione della riserva idrica" **11.000,00 €** (renewed on 2011 for meiofaunal analyses on the Teramo side of the Gran Sasso aquifer: **11.000,00 €**).
- 6. 2009-2010. Principal Investigator** of the project aimed at the environmental impact assessment of the impacts generated by the transbasin water diversion from the Campotosto Lake to the River Aterno Basin in order to increase the potential for recovery of the headwaters of the River Aterno. **116.000,00 €**.

7. **2009-2011. Principal Investigator** of the project entitled: "Monitoraggio ambientale integrato del Fiume Sagittario nella Valle Peligna" granted by the L'Aquila province, sector Environment. **104.000,00 €.**
8. **2009-2011. Principal Investigator** of the project "acque sotterranee" granted by the Abruzzo Region - water and public water sector. **46.000,00 €.**
9. **2010-2012.** Scientific Collaborator in the PRIN project entitled: *Phylogenetic and biogeographical assessment of endemic patterns of distribution in the Apennine Province (Italy): new tools for biodiversity assessment and conservation strategies.* **35.928,00 €.**
10. **2008. Principal Investigator** of the project entitled: "Caratterizzazione preliminare integrata dell'ecosistema fluviale dei fiumi Sangro, Aventino e Zittola e supporto alla definizione di alternative inerenti all'assetto di progetto del Fiume Sangro nei tratti "Villa Scontrone – Castel di Sangro (AQ) e "Lago di Bomba – Foce Sangro (CH)" granted by Beta Studio s.r.l., within the Master Plan of the Sangro River. **57.500,00 €.**
11. **2007-2008. Principal Investigator** of the project: "Inquinamento da nitrati in acque sotterranee della Val Vibrata" supported by isotope analyses, granted by the Abruzzo Region, Servizio Demanio Idrico. **25.000,00 €.**
12. **2007-2008. Principal Investigator** of the project granted by WWF related to the restoration of the site SCI "delle sorgenti di Cavuto e dei Colli" (Anversa degli Abruzzi municipality, L'Aquila). **15.000,00 €.**
13. **2006-2007. Principal Investigator** of the project entitled: "Analisi della biodiversità acquatica delle sorgenti di Capo Pescara: dall'analisi alla gestione"(Regione Abruzzo)" granted by WWF and Popoli municipality (closed in 15/2/2007 and renewed for 2008). **10.963,00 €.**
14. **2006-2007 - Principal Investigator** of the project: "Ecologia delle acque sotterranee nel Bacino del Fiume Adige" granted by the basin Authority of the River Adige (Trento). **163.000,00 €.**
15. **2004-2006.** Scientific Collaborator in the PRIN project: *Zoogeographical analysis of Mediterranean-southern African disjunctions: fine morphology and autecology approach.* **55.500,00 €.**
16. **2004-2005.** Scientific Collaborator in the project granted by the Ministero dell'ambiente e della tutela del territorio e del mare - Servizio Sviluppo Sostenibile - entitled: "*Biodiversità e caratterizzazione ecologica degli ecosistemi sorgentizi ed interstiziale-iporreico dell'Appennino centrale: un'integrazione ai processi di valutazione della qualità ambientale dei sistemi lotici*". **10.000,00 €.**
17. **2001-2004. Principal Investigator** for the Italian country (lead partner) of the **PASCALIS** project (*Protocols for the assessment and conservation of the aquatic life in the subsurface*) granted by the European Community (V Framework Programme for Research and Technological Development). **224.900,00 €.**
18. **2001. Principal Investigator** of the project entitled: "*Biomonitoraggio in ambiente acquatico sotterraneo: modellistica statistica dei pattern distribuzionali del cenotipo in relazione ai parametri ambientali*" in the field of research funding of significant university interest (PRIN 2001). **10.000,00 €.**
19. **1997-2001.** Scientific Collaborator in the project "*Monitoraggio biologico del Gran Sasso*" (L.N. 366/90) granted by the Gran Sasso Research Consortium (Consortium bodies: Istituto Nazionale di Fisica Nucleare, Università degli Studi dell'Aquila, ENEA, Regione Abruzzo). **10.000,00 €.**

#### **Referee of the following Journals:**

*Italian Journal of Zoology, Molecular Ecology, Cahiers de Biologie Marine, Contributions to Zoology, Organisms, Diversity and Evolution –ODE, Biologia (Section Zoology) - Slovacchia, Mitteilungen aus dem Museum für Naturkunde in Berlin, Zoologische Reihe, Memoires des Biospeologie, Proceedings of the Smithsonian Institution - Washington,*

*Zoologischer Anzeiger, Hydrobiologia, Zootaxa, ZooKeys, Scientific Reports, Journal of Crustacean Biology, Crustaceana, Environmental Ecotoxicology and Safety, Freshwater Biology, Water Resources Research, Acta Palaeontologica Polonica, Journal of Natural History, Limnology and Oceanography, Cahiers de Biologie Marine, Tropical Zoology, Senckenbergiana Biologica, Marine Biodiversity, Science of the Total Environment, Ecohydrology.*

### **Member of Editorial Board**

- 1) Editorial Advisory Panel - Ecology and Evolutionary Biology - of Scientific Reports (*Nature* Publishing)
- 2) Crustaceana (Brill, Leiden, The Netherlands)
- 3) Tropical Zoology (Taylor & Francis)
- 4) Graellsia (Instituto Español de Entomología del Consejo Superior de Investigaciones Científicas, ISSN: 0367-5041, E-ISSN:1989-953X)
- 5) Arthropoda Selecta (KMK Scientific Press Ltd., Russia)
- 6) WATER (Open Access Journal by MDPI)
- 7) **Biodiversity Data Journal** (Pensoft Publisher)
- 8) **Nature Conservation** (Pensoft Publisher)
- 9) **Nauplius** (<http://www.scielo.br/revistas/nau/iedboard.htm>)

### **National and International Scientific Collaborations**

Tiziana Di Lorenzo and Mariella Baratti (ISE-CNR, Firenze); Marie-Josè Dole-Olivier, Florian Malard, Pierre Marmonier, David Eme (CNRS e Lehna Department, Université Claude Bernard, Lyon); Rachel Stubbington (Nottingham Trent University, UK), Paul Wood (Department of Geography, Loughborough University, Loughborough Leicestershire, UK), Boris Sket (University of Ljubljana, Slovenia); Nicole Coineau (Observatoire Océanologique de Banyuls, C.N.R.S., France), Simon Rundle (University of Plymouth, U.K.), Rony Huys (Natural History Museum, London, U.K.); Janet W. Reid (Virginia Museum of Natural History, U.S.A.); Marco Petitta (Università di Roma "La Sapienza", Dipartimento di Scienze della Terra), Ramon Aravena (Department of Earth and Environmental Sciences, University of Waterloo, Canada); Maja Zagmajster and Cene Fišer (SubBioLab, Department of Biology, Biotechnical Faculty, University of Ljubljana, Slovenia); Anton Brancelj (National Institute of Biology, Ljubljana, Slovenia); Walter Di Marzio (Programa de Investigación en Ecotoxicología, Departamento de Ciencias Básicas, Universidad Nacional de Luján - Comisión Nacional de Investigaciones Científicas y Técnicas CONICET, Argentina); Stefano Cannicci (Department of Biology, University of Florence, Italy); Jean-Francois Cornu (UMR BOREA, Département Milieux et Peuplements Aquatiques, MNHN, CNRS 7208, IRD 207, UPMC, Muséum National d'Histoire Naturelle, Paris, France). Niel L. Bruce (Biodiversity & Geosciences Program, Museum of Tropical Queensland, Australia), Simone Fattorini (Università dell'Aquila), Giovanni Strona (European Commission, JRC); Paulo Borges (CE3C – Centre for Ecology, Evolution and Environmental Changes/Azorean Biodiversity Group and Universidade dos Açores - Departamento de Ciências e Engenharia do Ambiente, Angra do Heroísmo, Açores, Portugal).

### **Societies or scientific institutions of which she is a member**

**2018.** President of the WAC (World Association of Copepodologists).

**2015.** UZI (Unione Zoologica Italiana) and voted member of the Commissione Fauna (up to 2016).



**2015.** Member of the Osservatorio Regionale per la Biodiversità (Direttoriale n. DA/121 del 16.04.2014).

**2014.** Invited member of the IUCN – Cave Invertebrate Specialist Group.

**1999-2018.** Member of the WAC (World Association of Copepodologists).

**2013.** Member of the SIL (International Society of Limnology).

**1999-today.** member SIBIOS (International Society of Biospeleology).

## Scientific Activity

### Main research lines

1. Systematics, ecology and biogeography of the Copepoda Cyclopoida, Harpacticoida and Calanoida, and Isopoda Microparasellidae (Crustacea)
2. Copepod diversity (Crustacea Copepoda) in GDE (Groundwater Dependent Ecosystems): analysis of distribution patterns at the ecological scale
3. Biogeographic analysis of the distribution patterns of the stygobitic meiofauna and Conservation Issues
4. Bioindication in the analysis of surface water / groundwater connectivity
5. Groundwater vulnerability: ecotoxicological analysis in groundwater
6. Development of a user-friendly indicator system for biodiversity conservation of groundwater dependent ecosystems: the AQUALIFE software.

**1) Systematics, ecology and biogeography of the Copepoda Cyclopoida, Harpacticoida and Calanoida, and Isopoda Microparasellidae (Crustacea)** This line of research is focused on the systematics of copepods and isopods of surface waters and groundwater, and of brackish coastal groundwater on a global scale. Recent fields of investigation concern a) the description of a new genus of Cyclopoida Cyclopidae Halycyclopinæ collected with a consistent population in karstic spring from China (mainland); b) the description of the second species of the genus *Stygepactophanes* (Copepoda, Harpacticoida Canthocamptidae) until today monotypic; c) the description of a new species of calanoid of the genus *Eudiaptomus* (Calanoida, Diaptomidae) collected in the saturated aquifer of the sulfidic karst of the Frasassi cave system with the aid of mitochondrial and nuclear DNA analysis (in collaboration with Prof. Federico Marrone, University of Palermo); d) the study of the hyporheic copepods of the Chilean Patagonia, whose analysis was aimed at the identification of the species present (of which at least one new genus attributable to the family Canthocamptidae, order Harpacticoida, and a new species of Cyclopoida Cyclopidae Eucyclopinæ); e) the taxonomic identification of the copepod fauna of groundwater and spring environments of the ATBI Mercantour Park (France); f) the study of the copepod fauna in the benthic and hyporheic zone of the Ain River (France); the revision of the Isopoda of the family Microparasellidae and the establishment of the new family Lepidocharontidae Galassi & Bruce, 2016.

### Crustacea Copepoda e Isopoda described until 2018:

Families described: Crustacea Isopoda Lepidocharontidae Galassi & Bruce, 2016

Genera described: *Nitocrellopsis* Galassi, De Laurentiis & Dole-Olivier, 1999, *Neophyllognathopus* Galassi & De Laurentiis, 2011; *Simplificaris* Galassi & De Laurentiis, 2004; *Lepidocharon* Galassi & Bruce, 2016

Specie descritte

Crustacea Copepoda Cyclopoida *Hesperocyclops venezuelanus* Galassi & Pesce, 1992

Crustacea Copepoda Cyclopoida *Neocyclops geltrudeae* Pesce & Galassi, 1993

Crustacea Copepoda Cyclopoida *Metacyclops geltrudeae* Galassi & Pesce, 1994

Crustacea Copepoda Cyclopoida *Diacyclops bicuspidatus lucanus* Pesce & Galassi, 1985

Crustacea Copepoda Cyclopoida *Diacyclops ichnusae* Pesce & Galassi, 1986

Crustacea Copepoda Cyclopoida *Diacyclops paolae* Pesce & Galassi, 1987

Crustacea Copepoda Cyclopoida *Diacyclops paralanguidoides* Pesce & Galassi, 1987

Crustacea Copepoda Cyclopoida *Diacyclops maggii* Pesce & Galassi, 1987

Crustacea Copepoda Cyclopoida *Diacyclops sardous* Pesce & Galassi, 1987

Crustacea Copepoda Cyclopoida *Diacyclops cristinae* Pesce & Galassi, 1987

Crustacea Copepoda Cyclopoida *Eucyclops ibleicus* Pesce & Galassi, 1987

Crustacea Copepoda Cyclopoida *Eucyclops longispinosus* Pesce & Galassi, 1987

Crustacea Copepoda Harpacticoida *Attheyella paranaphthalica* Pesce & Galassi, 1988

Crustacea Copepoda Harpacticoida *Elaphoidella mabelae* Galassi & Pesce, 1991

Crustacea Copepoda Harpacticoida *Elaphoidella nuragica* Pesce & Galassi 1986

Crustacea Copepoda Harpacticoida *Elaphoidella italica* Pesce, Galassi & Apostolov 1987

Crustacea Copepoda Harpacticoida *Elaphoidella plesai* Pesce & Galassi, 1994

Crustacea Copepoda Harpacticoida *Elaphoidella federicae* Pesce & Galassi, 1988

Crustacea Copepoda Harpacticoida *Elaphoidella aprutina* Pesce, Galassi & Apostolov 1987

Crustacea Copepoda Harpacticoida *Elaphoidella paraelaphoides* Pesce, Galassi & Apostolov, 1987

Crustacea Copepoda Harpacticoida *Elaphoidella subplutonis* Pesce, Galassi & Apostolov, 1987

Crustacea Copepoda Harpacticoida *Elaphoidella tiberina* Pesce & Galassi, 1983

Crustacea Copepoda Harpacticoida *Nitocrella stochi* Pesce & Galassi, 1986

Crustacea Copepoda Harpacticoida *Nitocrella pescei* Galassi & De Laurentiis, 1997

Crustacea Copepoda Harpacticoida *Nitocrella kunzi* Galassi & De Laurentiis, 1997

Crustacea Copepoda Harpacticoida *Nitocrellopsis rouchi* Galassi, De Laurentiis & Dole-Olivier, 1999

Crustacea Copepoda Harpacticoida *Pseudectinosoma kunzi* Galassi, 1997

Crustacea Copepoda Harpacticoida <i>Pseudectinosoma janineae</i> Galassi, Dole-Olivier & De Laurentiis, 1999
Crustacea Copepoda Harpacticoida <i>Pseudectinosoma reductum</i> Galassi & De Laurentiis, 1997
Crustacea Copepoda Harpacticoida <i>Parastenocaris crenobia</i> Galassi, 1997
Crustacea Copepoda Harpacticoida <i>Stammericaris lorenzae</i> (Pesce, Galassi & Cottarelli, 1995)
Crustacea Copepoda Harpacticoida <i>Stammericaris trinacriae</i> (Pesce, Galassi & Cottarelli, 1988)
Crustacea Copepoda Harpacticoida <i>Proserpinicaris kalypso</i> (Pesce, Galassi & Cottarelli, 1988)
Crustacea Copepoda Harpacticoida <i>Simpliacaris letheae</i> Galassi & De Laurentiis, 2004
Crustacea Copepoda Harpacticoida <i>Phyllognathopus inexpectatus</i> Galassi & De Laurentiis, 2011
Crustacea Isopoda Lepidocharontidae <i>Microcharon agripensis</i> Galassi, De Laurentiis & Pesce, 1995
Crustacea Isopoda Lepidocharontidae <i>Microcharon anatolicus</i> Pesce & Galassi, 1990
Crustacea Isopoda Lepidocharontidae <i>Microcharon angelicae</i> Pesce & Galassi, 1988
Crustacea Isopoda Lepidocharontidae <i>Microcharon antonellae</i> Galassi, 1991
Crustacea Isopoda Lepidocharontidae <i>Microcharon hispanicus</i> Pesce & Galassi, 1989
Crustacea Isopoda Lepidocharontidae <i>Microcharon letiziae</i> Pesce & Galassi, 1989
Crustacea Isopoda Lepidocharontidae <i>Microcharon longistylus</i> Pesce & Galassi, 1989
Crustacea Isopoda Lepidocharontidae <i>Microcharon lydicus</i> Pesce & Galassi, 1990
Crustacea Isopoda Lepidocharontidae <i>Microcharon meijersae</i> Pesce & Galassi, 1989
Crustacea Isopoda Lepidocharontidae <i>Microcharon notenboomi</i> Pesce & Galassi, 1989
Crustacea Isopoda Lepidocharontidae <i>Microcharon novariensis</i> Stoch & Galassi, 2002
Crustacea Isopoda Lepidocharontidae <i>Microcharon nuragicus</i> Pesce & Galassi, 1988
Crustacea Isopoda Lepidocharontidae <i>Microcharon silverii</i> Pesce & Galassi, 1988
Crustacea Isopoda Lepidocharontidae <i>Lepidocharon priapus</i> Galassi & Bruce, 2016
Crustacea Isopoda Lepidocharontidae <i>Lepidocharon lizardensis</i> Galassi & Bruce, 2016

**2) Copepod diversity (Crustacea Copepoda) in GDE (Groundwater Dependent Ecosystems): analysis of distribution patterns at the ecological scale.** At the ecological scale, monitoring campaigns have been conducted from the microhabitat scale (microscale - cm<sup>2</sup>) to the hydrogeological or aquifer scale (mesoscale - km<sup>2</sup>) in order to identify by means of statistical tools (univariate and multivariate statistical analyses) the prevailing factors defining the spatial distribution of the copepod species in the study areas.

**3) Biogeographic analysis of the distribution patterns of the stygobitic meiofauna and Conservation Issues.** The first contribution at the European scale was born with the PASCALIS Project (financed by the EC on 2000-2004, of which the candidate was lead partner for Italy) that worked on a sampling protocol developed on 5 EC member states and, for each of them, on a single hydrogeological unit. The next approach was the one financed years later by the European Union under the 7th EU Framework Program (Contract No. 226874, BioFresh project). As external project expert, the candidate participated to the construction of the European Groundwater Crustaceans Database (EGCD). Crustaceans have been selected as a target group constituting more than 60% of the groundwater biodiversity. The findings for single stygobitic species, all georeferenced and mapped, led to the creation of a dataset of 25,000 records for 1,550 species and subspecies across the European subcontinent. Maps of species richness, maps of endemism and analyses of the beta-diversity were also built up, including the effects of errors linked to differences in sampling effort on the large (sub)continental scale. Based on the experience gained on the systematics of the Crustacea Copepoda, as external expert into the BIOFRESH project, a relational database has been created. Various hypotheses have been tested on the relational database: from the validation of the Rapoport rule on the latitudinal gradient of species richness, to the effect of the Quaternary glaciation and to "heterogeneity of groundwater habitats at the European scale", thus providing a basis for the trend in species richness observed also in previous works, giving ground to the hypothesis that species richness tends to decrease north of the 45th parallel. The analyses carried out supported the hypothesis of the effect of the last glaciations on the spatial distribution of stigidiversity, which alone cannot explain the observed trend, if not accompanied by another co-variable: the habitat heterogeneity, which is greater in the Balkan area and in the south-European area, rather than in northern Europe, where mainly alluvial aquifers of recent post-glacial origin are concentrated. However, the effect of paleogeography and paleoecology at the European scale in geological eras prior to the Quaternary period remains to be defined, a condition that still keeps alive the debate between the macroecological approach and the other, still to be explored, which is based on the principles of the vicariance biogeographical model.

**4) Bioindication in the analysis of surface water / groundwater connectivity.** The regulatory instruments at Community level currently in force concerning the assessment of groundwater quality (WFD 60/2000 / EC, Directive 118/2006 / EC) provide the estimation of only chemical-physical and quantitative parameters, thus completely neglecting the ecological dimension of the groundwater bodies, where biodiversity plays an important role in the purification of the organic load and in the oxygenation of sediments in the hyporheic environment and in alluvial aquifers. In an integrated approach, the biomonitoring could help identify alterations induced by natural causes or anthropogenic activities, leading to a more rational sustainable management of the groundwater resource. The deepening of the knowledge of the groundwater biodiversity represents a crucial moment for the development of a standardized methodology that, through the integrated analysis of biological indicators and environmental parameters, provides timely and accurate information on the vulnerability of groundwater. This line of research is aimed at testing the role of the Crustacea Copepoda as indicators of surface water / groundwater exchange; that is, the potential role as AED: Active Exchange Describers. These are indicator species of active

exchange between the surface water and the groundwater compartments. The dominance of stygoxenes in a groundwater body, or in the hyporheic zone of streams and rivers indicates, therefore, the presence of downwelling sectors (areas in which the surface water enters the underlying aquifer) critical to the vulnerability; conversely, the dominance of stygobites in the hyporheic habitat or in a saturated aquifer indicates either the presence of upwelling or outwelling sectors in the riverbed (where the aquifer feeds the riverbed vertically or sideways) or the isolation from the surface of an aquifer or part of it. The presence of upwelling zone along and across the riverbed could indicate both the presence of water at constant temperatures for macroinvertebrates, meiofauna and fish, thus favouring their settlement and reproduction. At the same time, in the groundwater is polluted, both nitrate and ammonium may enter surface waters, when the aquifer is contaminated by these compounds. In exploiting the biological inference, previously the candidate and her working group have developed a first indicator of "biovulnerability" for karst aquifers and their springs: the IPN, Natural Protection Index. In line with this primary objective, the identification of draining and losing areas in the riverbed has been successfully tested in the Adige basin (Avisio alluvial aquifer, Adige basin, Trentino), in the hyporheic environment of the Sagittario River, of the Venacquaro stream and of the Tirino river (Abruzzo).

**5) Groundwater vulnerability: ecotoxicological analysis in groundwater.** The Water Framework Directive 2000/60 / EC and the 6th Environmental Action Program have established that the so-called "good status" (ecological, chemical and quantitative) should be achieved by all water bodies at European scale by 2027. The water crisis and water stress are spotlights on a global scale and the EEA (European Environmental Agency) has announced a warning situation, at European level, starting from 2030, both due to the over-exploitation of water resources and climate change (EEA Report 4/2005). The problem of water scarcity and that of its quality have increasingly global dimensions, although difficult to solve, given the complexity and mobility of the resource, the different perception that one has of it and the administration so fragmented. In order to evaluate the ecological risk, it is essential to assess the potential damage that can be sustained by groundwater species (stygobionts) or by species commonly found in groundwater (stygophylous and stygoxenes), even if their life cycle is normally completed in surface water bodies. This line of research is splitted into several points: **A) Analysis of the sensitivity of the copepod species to environmental pollutants.** In this line of research the sensitivity to pollution of copepod species has been tested, being pollutants represented mainly by pesticides, ammonium, nitrites, nitrates, phosphates, PAHs, Chlorinated Organic Compounds, heavy metals in the aquifers and GDEs. The knowledge in this regard is still almost non-existent, apart from some contributions for Malacostraca, mainly marine crustaceans. In groundwater, the supremacy of the Crustacea Copepoda makes them good candidates to be selected as a target group (or proxy group for the stygofauna as a whole). The objective of the research in question is to test the sensitivity of the Crustacea Copepoda to pollutants commonly found in groundwater and the synergistic effects of some pollutants that often coexist in the aquifers. **B) Metabolic rates of freshwater copepods.** This line of research implements a comparative analysis between the respiratory metabolism of two species of crustacean copepods, the stygobiotic (obligate groundwater species) *Diacyclops belgicus* and the epigeic counterpart: *Eucyclops serrulatus*, both belonging to the same family Copepoda Cyclopoida Cyclopidae. Excluding the dry mass, the respiratory metabolism of the stygobiotic species was 5 times lower than that of the epigeic relative. The study represents the first measurement of respiratory metabolism of stygobiotic copepods. **C) Synergistic effect of environmental pollutants and climate change.** An emerging environmental pressure on a global scale, with particular reference to the Mediterranean area, is represented by the climate change that is leading to the alteration of the hydrological cycle and to the depletion of the water resource, with particular regard to groundwater, which is mainly used for agricultural, zootechnical and industrial purposes. This line of research has revealed a remarkable sensitivity of the stygobiotic fauna, mainly during summer, in the coastal alluvial aquifers of the Mediterranean area. The analyses carried out showed a statistically significant decline in the abundance of stygobiotic species along with the lowering of the piezometric level, probably due to the reduction of the habitats and microhabitats available for the species. The increase in temperature, the over-exploitation of the water resource also determine an increase in the concentration of pollutants, to which a synergistic effect between  $\text{NH}_4^+$  concentration and pesticides (e.g. Imazamox) is associated with the increase in temperature, as experimentally observed by the research group in the laboratory, from 15°C to 18°C.

**6) Development of a user-friendly indicator system for biodiversity conservation of groundwater dependent ecosystems: the AQUALIFE software.** The key-objective of the AQUALIFE project is the development of an innovative application Package for the use of a system of indicators to measure the loss of biodiversity in groundwater dependent ecosystems, the so-called GDE (Groundwater Dependent Ecosystems, acronym GDE), in the presence of different types of determinants, which generate pressures and produce impacts on the GDEs and the species hosted therein, following the DPSIR approach, recommended also by the European Environmental Agency for the assessment of the ecological status of the surface water bodies and in groundwater.

The AQUALIFE project has as primary objectives: 1) the conservation of the habitats in which the species live; 2) the conservation of species and their function in the ecosystem. Industrial settlements (determinants) generate significant and very significant pressures for either occasional or accidental spills of synthetic compounds on the ground or for burial of toxic waste (illegal dumping of toxic waste) such as PAHs, chlorinated organic compounds, heavy metals, for chemical industries, steel mills, industrial laundries, etc. The most important innovation of the project is to propose a biological assessment of the groundwater quality and surface ecosystems depending more closely on it (aquifers, springs and draining riverbeds) on the basis of the impacts generated by the pressures linked to the anthropogenic activities they play on the surface. The results achieved will have a significant impact because at both the Community and national scales there are still no rules for considering the groundwater species as indicators of aquifer or GDE quality. There is still a sharp divide between that is ruled for surface water bodies where the biomonitoring is compulsory, and the groundwater bodies (and GDEs) for which the biomonitoring is completely neglected. These environments, as well as their biodiversity, are not, in fact, covered by Community Directives

aimed at aquatic biomonitoring (see Directive 60/2000/EC, Directive 118/2006 and subsequent amendments) or the protection of habitats and species (Habitats Directive 92/43/EEC). The anthropic impacts can determine important alterations of habitats and microhabitats, both from a physical-chemical and quantitative point of view. This situation is reflected in the extinction of the most sensitive species, or in serious threats to many GDE-dependent stygobiotic or surface-water species (e.g. several macroinvertebrate larvae).

Main actions of the project:

1. Creation and validation of an innovative system of indicators to measure the state of biodiversity according to the variation in the type and intensity of impacts (Theoretical Ecological Risk Assessment).
2. Creation of an Application Package of this system of indicators.
3. Dissemination of the AQUALIFE Application Package to public and private stakeholders.

The demonstration value of the project lies in the fact that the indicator system will be packaged in the AQUALIFE package which will make the methodology easy to apply for a very large number of users, and which is already disseminated nationally and internationally. This package brings together a series of modules (identification cards of the indicator species living in the GDEs, graphical representations, software for the use of indicators with related explanatory note within the software that acts as a tutorial) composed in such a way as not to require the intervention of specifically trained people, as it hosts a step by step guide (the tutorial) that makes it accessible to technical personnel, even those not specialized in the sector, and to scientific figures of various backgrounds. In addition, the AQUALIFE package houses an electronic manual downloadable from the website created *ad hoc* and provides in-depth insights that support the use of software driven expert system (AQUALIFE expert system) (<http://www.aqualifeproject.eu/index.php/en/>).

## List of Publications

### Publications in national and international Journals indexed by Scopus or/and WoS

1. Mammola, S., Cardoso, P., Culver, D. C., Deharveng, L., Ferreira, R. L., Fišer, C., **Galassi, D.M.P.**, Griebler, C., Halse, S., Humphreys, W.F., Isaia, M., Malard, F., Martinez, A., Moldovan, O. T., Niemiller, M. L., Pavlek, M., Reboleira, A. S. P. S., Souza-Silva, M., Teeling, E.C., Wynne, J.J., & Zigmajster, M. (2019) Scientists' warning on the conservation of subterranean ecosystems. *BioScience*, doi:10.1093/biosci/biz064.
2. Di Lorenzo, T., Di Marzio, W. D., Fiasca, B., **Galassi, D. M. P.**, Korbelt, K., Iepure, S., Pereira, J. L., Reboleira, A. S. P. S., Schmidt, S. I., & Hose, G. C. (2019) Recommendations for ecotoxicity testing with stygobiotic species in the framework of groundwater environmental risk assessment. *Science of the Total Environment*, 681, 292-304.
3. Di Lorenzo T., Castaño-Sánchez A., Di Marzio W.D., García-Doncel P., Nozal Martínez L., **Galassi D.M.P.**, Iepure, S. (2019) The role of freshwater copepods in the environmental risk assessment of caffeine and propranolol mixtures in the surface water bodies of Spain. *Chemosphere*, 227-236.
4. Di Lorenzo T., Di Cicco M., Di Censo D., Galante A., Boscaro F., Messina G., **Galassi D.M.P.** (2019) Environmental risk assessment of propranolol in the groundwater bodies of Europe. *Environmental Pollution* (under review).
5. Fattorini S., Fiasca B., Di Lorenzo T., Di Cicco M., Galassi D.M.P. (2019) A new protocol for assessing the conservation priority of groundwater dependent ecosystems. *Aquatic Conservation: Marine and Freshwater Ecosystems*.(under review).
6. **Galassi D.M.P.**, Fiers F., Dole-Olivier, M.-J., Fiasca, B. (2019) Discovery of a new species of the genus *Stygepactophanes* from a groundwater-fed spring in southern France (Crustacea, Copepoda, Harpacticoida, Canthocamptidae). *ZooKeys* 812: 69-91.
7. Capezzuto F., **Galassi D.M.P.**, Ancona F., Maiorano P., D'Onghia G. (2019) How far may life venture? Observations on the harpacticoid copepod *Phyllognathopus viguieri* under extreme stress conditions. *Aquatic Ecology*, accepted.
8. Di Lorenzo T., Cifoni M., Fiasca B., Di Cioccio A., **Galassi D.M.P.** (2018) Ecological risk assessment of pesticide mixtures in the alluvial aquifers of central Italy: Toward more realistic scenarios for risk mitigation. *Science of The Total Environment* 644: 161-172.
9. Fattorini S., Di Lorenzo T., **Galassi D.M.P.** (2018) Earthquake impacts on microcrustacean communities inhabiting groundwater-fed springs alter species-abundance distribution patterns. *Scientific Reports* 8, 1: 1501.
10. Di Lorenzo T., Cipriani D., Fiasca B., Rusi S., **Galassi D.M.P.** (2018) Groundwater drift monitoring as a tool to assess the spatial distribution of groundwater species into karst aquifers. *Hydrobiologia* 813, 1: 137-156.
11. Fattorini S., Mantoni C., De Simoni L., **Galassi D.M.P.** (2018) Island biogeography of insect conservation in urban green spaces. *Environmental Conservation* 45,1: 1-10.
12. Di Marzio W.D., Cifoni M., Sáenz M.E., **Galassi D.M.P.**, Di Lorenzo T. (2018) The ecotoxicity of binary mixtures of Imazamox and ionized ammonia on freshwater copepods: Implications for environmental risk assessment in groundwater bodies. *Ecotoxicology and Environmental Safety* 149: 72-79.
13. Marmonier P., Maazouzi C., Baran, N., Blanchet S., Ritter, A., Saplaïroles M., Dole-Olivier M.-J., **Galassi D.M.P.**, Eme D., Dolédec S., Piscart C. (2018) Ecology-based evaluation of groundwater ecosystems under intensive agriculture: A combination of community analysis and sentinel exposure. *Science of the Total Environment* 613-614: 1353-1366.
14. Di Lorenzo T., **Galassi D.M.P.** (2017) Effect of temperature rising of stygobitic crustacean species *Diacyclops belgicus*: Does global warming affect groundwater populations? *Water* (Switzerland) 8, 12: 951.
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17. Caschetto M., **Galassi D.M.P.**, Petitta M., Aravena R. (2017) Evaluation of the sources of nitrogen compounds and their influence on the biological communities in the hyporheic zone of the Sagittario River, Italy: an isotopic and biological approach. *Italian Journal of Geosciences* 136, 2: 145-156.
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21. Fattorini, S., Bergamaschi D., Galassi D.M.P., Biondi M., Acosta A.T.R., Di Giulio A. (2017) Spatial organisation of an insect ensemble in a Mediterranean ecosystem: The tenebrionid beetles (Coleoptera: Tenebrionidae) inhabiting an Adriatic coastal sand dune area. *Acta Zoologica Bulgarica* 69, 2: 201-208.
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25. Fattorini S., **Galassi D.M.P.**, Strona G. (2016) When human needs meet beetle preferences: tenebrionid beetle richness covaries with human population on the Mediterranean islands. *Insect Conservation and Diversity* 9, 4: 369-373.
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39. Caschetto M., Barbieri M., **Galassi D.M.P.**, Mastroiello L., Rusi S., Stoch F., Di Cioccio A., Petitta M. (2014) Human alteration of groundwater–surface water interactions (Sagittario River, Central Italy): implication for flow regime, contaminant fate and invertebrate response. *Environmental Earth Sciences* 71, 4: 1791–1807.
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### Scientific contributions on national and international monographs

1. **Galassi D.M.P.**, Stoch F. (2011) 7.8. L'individuazione degli ecosistemi dipendenti dalle acque sotterranee (GDE) per una corretta gestione dei corpi idrici sotterranei. ISPRA, Contributi per la tutela della biodiversità delle zone umide. 153/2011: 373-375.
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