Work Addresses

University of Milan-Bicocca

Rectorate,
Piazza dell'Ateneo Nuovo, 1
20126 Milan, Italy

Dept. Biotechnology and Biosciences,
ZooPlantLab®
Piazza della Scienza, 2
20126 Milan, Italy

Scopus Author ID

35586130700

Orcid ID

0000-0002-2733-2094

e-mail

maurizio.casiraghi@unimib.it

Telephone

+39 02 6448.6015 / .3413
mobile: +39 340 3313602

Italian (mother tongue)
English (C1)

ACADEMIC POSITIONS

13 May 2021 - today. General Deputy at Fondazione Monte dei Paschi di Siena.

1 October 2019 - today. Vice-Rector for Education at University of Milan-Bicocca.

2018 - 2019. Vice-coordinator of "Nucleo di Valutazione" for the University of Milan-Bicocca.

2017 - today. Full professsor of Zoology (Italian SSD BIO/05), Department of Biotechnology and Biosciences, University of Milan-Bicocca.

2015 - 2017. Coordinator for the bachelor and master degrees in Biology (First and Second level), University of Milan-Bicocca.

2014 - 2017. Associate Professor of Zoology (Italian SSD BIO/05), Department of Biotechnology and Biosciences, University of Milan-Bicocca.

2005-2014. Assistant professor of Zoology (Italian SSD BIO/05), Department of Biotechnology and Biosciences, University of Milan-Bicocca.

2001-2005. Post Doc, Department of Animal Pathology, Hygiene and Veterinary Public Health, Section of General Pathology and Parassitology, University of Milan.

1999-2001. Ph.D., Department of Animal Pathology, Hygiene and Veterinary Public Health, Section of General Pathology and Parassitology, University of Milan.

1997-1999. Research Assistant, Department of Genetics, Evolution and Environment, University College London, London, UK.

EDUCATION AND MAIN ACTIVITIES

I got the upper school diploma as Agricoltural Expert in 1990 and in 1996 I deserved an honours master degree (110 cum laude) in Biological Sciences at Università degli Studi di Milano (Italy). Following a period of two years at University College London, in 2001 I got a PhD in Invertebrate Biology (XIV cycle) at University of Milan. After two post-doc positions, in 2005 I got a position as Assistant Professor for the scientific area BIO-05 (Zoology), then as Associate Professor (in 2014) and finally as a Full Professor (in 2018) always at the Department of Biotechnology and Biosciences, University of Milan-Bicocca.

In the first part of my career worked mainly in entomological and nematological fields, under the common vision of biological evolution of the living beings.

In the second part, I used techniques such as DNA barcoding and High Throughput DNA Sequencing (HTS) technologies to study the evolution of organisms and communities, the ecology of waters and food.

The research activity is well supported by various publications, editor and reviewer roles for several international scientific journals. I published 87 scientific papers, 15 book chapters and a book on Zoology.

According to Scopus (15 May 2021):

Documents by author:	87
Total citations	3464
Cited by documents	2605
h-Index	28
Co-authors	302
Top cited article	287
Average citations per article	40

I was involved in an intense teaching activity, mainly at University of Milan-Bicocca. I am very active in the communication of science.

In 2007 I established, with a colleague botanist, the ZooPlantLab® at University of Milan-Bicocca, a lab in which basic and applied science are successfully coupled. In 2010 I co-established a spin-off of the University of Milan-Bicocca, FEM^2 Ambiente S.r.l., to transfer researches directly to the society.

I was elected President of the Italian Society for Evolutionary Biology (ISEB); I am an elected member of the board of the Unione Zoologica Italiana (UZI).

Education

1990: High School for Agricolture Expert
1996: Master Degree in Biological Sciences
2001: Ph.D. Invertebrate Biology

Academic Positions

2019 - today: Vice-Rector for Education
2018-19: Vice-Coordinator of Nucleo di Valutazione
2015-18: Coordinator of Bacherol and Master Deegrees in Biology
2018-today: Full Professor for Zoology
2014-18: Associate Professor for Zoology
2005-14: Assistant Professor for Zoology
2001-05: Post Doc
1999-2001: PhD
1997-99: Research Assistant (UK)

ERC Sectors

LS8	Evolutionary, population and environmental biology
LS2	Genetics, genomics, bioinformatics and system biology

Italian University Sectoor

SC: 05/B1 – Zoologia e Antropologia
SSD: BIO/05 - Zoologia

Principal Teaching Fields

Zoology
Animal Genome Evolution
Symbiosys
Molecular Evolution

Publications

87 published papers (SCOPUS)
3464 total citations (SCOPUS)
H-index: 28 (SCOPUS)
1 textbook on Zoology
17 book chapters

Research Projects

12 main financed projects
More than 1.100.000 € raised fully devoted to research activities

I am interested in the management of Education. I was elected president for the Biological Courses (first and second level), vice president of the Nucleo di Valutazione at University of Milan-Bicocca and I am now Vice-Rector for Education. I am an elected member at the Collegio dei Biologi Universitari Italiani (CBUI).

Since may 2021 I am also a General Deputy at Fondazione Monte dei Paschi di Siena, working in the Steering Body of the foundation.

SCIENTIFIC PROFILE AND CONTRIBUTION TO SCIENCE

Zoology and Evolution are the two main keywords describing my research activities. The main topic on which the two terms found a common field are biological interactions and symbiosis. It is possible to identify four periods in my researches: (1) Eco-ethology of social hymenoptera; (2) Intracellular symbiosis (bacteria within animal cells, such as *Wolbachia*); (3) Animal-microorganisms interactions at the community level (not only intracellular relationships); (4) Metagenomic approaches to food sciences.

I have always been very interested in fundamental science and technology transfer. I studied and published theoretical papers on biological evolution as well as I established, with three other colleagues, a start-up at the University of Milan-Bicocca.

To achieve these goals, I set up an interdisciplinary laboratory at the Department of Biotechnology and Biosciences of the University of Milan-Bicocca that includes:

1- Expertise in molecular biology. I equipped a laboratory space, properly conceived for environmental samples analysis to avoid cross-contamination and has specific equipment for water samples processing, DNA extraction, amplification and Sanger sequencing, being suitable for metagenomic analyses.

2- Expertise in bioinformatics. I have an infrastructure for the managing and analysis of HTS data. In particular, I set up a local server, dedicated to metagenomics analysis hosted in the University of Milan-Bicocca “Sistemi informativi” infrastructure. It is also available a high CPU virtual machine infrastructure managed by “Sistemi informativi” of University of Milan-Bicocca for data intensive analyses.

My specific contributions to science are listed below, following broadly a chronological order and starting from the oldest project:

CONTRIBUTION 1. Ecology pressure and evolution of social behaviour in Hymenoptera

Insect societies are a prominent topic in biology since Charles Darwin, On the origin of species (1859). Many theories have been proposed to explain the origin and spreading of social behaviour, that is diffused among metazoans, but it is very common in wasps, bees and ants. In particular, wasps are very interesting because phylogenetic reconstructions show these organisms are the basal branch of Hymenoptera evolution, and it is the group in which eusocial behaviour firstly appeared. Genetic contribution have been supposed as the key factor driving the social adaptations, but my work on wasps supported the idea that, even if fundamental for the spreading of societies, the initial pressures derived more from ecology rather than hymenoptera genetics. In particular, the cost of nest constructions, food limitations and conspecific interactions are the main forces driving evolution. The results of these works have been published on first rank journals (such as Nature) and have now been introduced on textbook (see for instance Davies, Krebs and West, An Introduction to Behavioural Ecology).

Key citations:

- Field J, Shreeves G, Sumner S, Casiraghi M (2000). Insurance-based advantage to helpers in a tropical hover wasp. Nature, 404: 869-871. doi:10.1038/35009097
- Sumner S, Casiraghi M, Foster W, Field J (2002). High reproductive skew in tropical hover wasps. Proceedings of the Royal Society of London, B, 269: 179-186. doi:10.1098/rspb.2001.1884

CONTRIBUTION 2. Animal evolution with intracellular bacterial symbionts

Intracellular bacterial symbiosis are fundamental in biology. Eukaryogenesis is basically a symbiotic process happened between 2 and 2,5 billion years ago, but

it is not limited to that event, because there are evidences that similar processes took place hundreds of time during metazoans evolution. Among all these cases *Wolbachia* plays a key role, because it has been calculated that up to 20% of all insect species could be in symbiosis with this bacterium, making it the commonest symbiont on the planet. *Wolbachia* in insects and other arthropods plays many roles, but the more fascinating is reproductive parasitism. In this interaction the bacterium manipulates the host reproduction maximising the spreading of the bacteria within the host populations. I started my research on *Wolbachia* in filarial nematodes (the only other animal group in which this bacterium has been found) to understand if *Wolbachia* was able to manipulate host reproduction like in arthropods do. My results allowed us to understand that *Wolbachia*-filariae interactions are different than in insects and that the bacterium is a key symbiont, essential in worm life cycle. In particular, Wolbachia seems essential in molting process. These results were very relevant when coupled with data on the role of Wolbachia in the pathology of filariasis.

Key citations:

- Casiraghi M, Anderson TJC, Bandi C, Bazzocchi C, Genchi C (2001). A phylogenetic analysis of filarial nematodes: comparison with the phylogeny of *Wolbachia* endosymbionts. Parasitology, 122: 93-103. doi:10.1017/S0031182000007149
- Lo N, Casiraghi M, Salati E, Bazzocchi C, Bandi C (2002). How many *Wolbachia* supergroups exist. Molecular Biology and Evolution, 19: 341-346. doi.org/10.1093/oxfordjournals.molbev.a004087
- Casiraghi M, McCall JW, Simoncini L, Kramer LH, Sacchi L, Genchi C, Werren JH, Bandi C (2002). Tetracycline treatment and sex-ratio distortion: a role for *Wolbachia* in the moulting of filarial nematodes. International Journal for Parasitology, 32: 1457-1468. doi:10.1016/S0020-7519(02)00158-3

CONTRIBUTION 3. Animal-microorganisms interactions at the community level

My work on parasitological field put me in front of a key problem: identification of living beings, parasites, starting from partial body parts, or even if in their apparent absence. Molecular identification was the simplest and promising among the possible answers. Starting from that point I worked from a theoretical and practical view on DNA barcoding, and when the technologies became available, since 2008 I used High Throughput DNA Sequencing to investigate the interactions among animals and bacterial communities. I focused in particular on “difficult” microbiota such as drinking water or non-model animals.

Key citations:

- Ferri E, Barbuto M, Bain O, Galimberti A, Uni S, Guerrero, Fertè H, Bandi C, Martin C, Casiraghi M (2009). Integrated taxonomy: traditional approach and DNA barcoding for the identification of filarioid worms and related parasites (Nematoda). Frontiers in Zoology, 6: 1. doi:10.1186/1742-9994-6-1
- Casiraghi M, Labra M, Ferri E, Galimberti A, De Mattia F (2010). DNA barcoding: a six-question tour to improve users’ awareness about the method. Briefings in Bioinformatics, 11: 440-453. doi:10.1093/bib/bbq003
- Sandionigi A, Vicario S, Prosdocimi EM, Galimberti A, Ferri E, Bruno A, Balech B, Mezzasalma V, Casiraghi M (2015). Towards a better understanding of *Apis mellifera* and *Varroa destructor* microbiomes: introducing ‘phyloH’ as a novel phylogenetic diversity analysis tool. Molecular Ecology Resources, 15: 697–710. doi: 10.1111/1755-0998.12341
- Bruno A, Sandionigi A, Galimberti A, Siani E, Labra M, Cocuzza C, Ferri E, Casiraghi M (2017). One step forwards for the routine use of high-throughput DNA sequencing in environmental monitoring. An efficient and standardizable method to maximize the detection of environmental bacteria. Microbiology Open 6(1). doi: 10.1002/mbo3.421

CONTRIBUTION 4. Metagenomic approaches to food sciences

The quality of food is strictly related to the microbiota associated. In the last decade we assisted to the spreading of molecular techniques for deep and detailed microbiological analyses. The application of the so-called High Throughput DNA Sequencing (HTS) technologies lead to a dramatic change of our perspective on food researches.

Key citations:

- Frigerio J, Agostinetto G, Sandionigi A, Mezzasalma V, Berterame NM, Casiraghi M, Labra M, Galimberti A (2020). The hidden ‘plant side’ of insect novel foods: A DNA-based assessment. Food Research International, 128:108751.
- Galimberti A, Casiraghi M, Bruni I, Guzzetti L, Cortis P, Berterame NM, Labra M (2019). From DNA barcoding to personalized nutrition: the evolution of food traceability. Current Opinion in Food Science, 28: 41-48.
- Valentini P, Galimberti A, Mezzasalma V, De Mattia F, Casiraghi M, Labra M, Pompa PP (2017). DNA barcoding meets nanotechnology: development of a smart universal tool for food authentication. Angewandte Chemie 129: 8206-8210.

MAIN FINANCED PROJECTS

MAIN FINANCED PROJECTS

As Principal Investigator

2016-2018. Xenogenetics of drinking water: Microbiome and Resistome analyses for the improvement of water safety assessment tools. Funding body: Fondazione Cariplo.

Galileo Project 2016. MetaFOOD - Design, development and implementation of standardized bioinformatics workflows for applied food traceability. Funding body: Italian-French University.

2013-2015. S.A.F.E. Gardens: Sustainable Actions For Edible Gardens (Tanzania) – Funding body: Comune di Milano.

2014-2015. "Monitoraggio ambientale e valutazione precoce di un'eventuale diffusione di organismi alloctoni al fine di ridurre o azzerare l'impatto di un inquinamento genetico sulla biodiversità autoctona in occasione dell'Esposizione Universale di Milano". Funding body: EXPO S.p.a.

2009-2012. "Dai geni all'ecosistema: il DNA barcoding come supporto innovativo per la protezione della biodiversità e l'analisi della funzionalità delle reti ecologiche". Funding body: Fondazione Cariplo.

2007-2009. Programmi di ricerca scientifica di rilevante interesse nazionale 2007 (PRIN 2007): "Nuova metodica per l'analisi della biodiversità: un'applicazione del pirosequenziamento allo studio degli organismi del suolo". Funding body: National Agency MIUR.

As Unit Coordinator

2017-2020. Sistemi Alimentari e Sviluppo Sostenibile: Creare sinergie tra ricerca e processi internazionali e africani. Funding body: National Agency MIUR.

2010-2012. Il corridoio ecologico del Lambro: interventi per il consolidamento e l'implementazione della connettività e della biodiversità. Funding body: Fondazione Cariplo.

2009-2011. Le connessioni ecologiche nelle selve castanili nel Parco Regionale Campo dei Fiori: valutazione e sviluppo di sistemi di gestione" Funding body: Fondazione Cariplo.

AWARDS, COMMISSION OF TRUST

NATIONAL AND INTERNATIONAL AWARDS, COMMISSION OF TRUST

January 2014: Abilitazione scientifica nazionale 2012 - Prima fascia - Settore Concorsuale 05/B1, up to 13/01/2020.
2002: "G.B. Grassi prize for Young Parasitologists under 40 years old" by Società Italiana di Parassitologia.

COMMISSION OF TRUST
2021: General Deputy, Fondazione Monte dei Paschi di Siena.
2020: Vice-Rector for Education - University of Milan-Bicocca.
2018: Ad hoc reviewer for the Genome Canada.
2017-present: Elected member of the Executive Board of the Unione Zoologica Italiana.
2015-present: Elected President of the degree courses in Biology (first level and master degree) at the University of Milan-Bicocca.
2010-2017: Elected member of the Executive Board of the Italian Society for Evolutionary Biology.
2012-2015: Elected President of the Italian Society for Evolutionary Biology.
2012-2015: Member of the Executive Board of the Federazione Italiana Scienze delle Vita.
2012: Ad hoc reviewer for the Joint Experimental Molecular Unit (JEMU) of the Belgian Science Policy in Brussels (Belgium).
2010-2012: Secretary-treasurer of the Italian Society for Evolutionary Biology.

TEACHING ACTIVITIES

TEACHING ACTIVITIES

From 2014 to present	"Zoology" (8 ECTS), First level degree in Biological Sciences, Unimib.
From 2006 to present	"Molecular Evolution"now "Animal Genome Evolution" (6 ECTS), Master degree in Biology, Unimib.

Past courses:

2003-2015	"Symbiosis" (6 ECTS), Master degree in Biology, Unimib.
2018-2020	"Making sense of Biological Data for Data Sciences", Master Degree in Data Science, Unimib.

RESEARCH COORDINATION

RESEARCH COORDINATION

Bachelor and Master Degree Thesis

I supervised 119 thesis in Bachelor and 57 in Master Degrees in Biology at the University of Milan-Bicocca.

Ph.D. school

2017-today: member of the PhD "Convergent technologies for the biomolecular systems", TECSBI (national code: DOT17C6227) at the University of Milan-Bicocca.

2014-2016: member of the PhD "Biology and Biotechnology" (national code: DOT13C6314) at the University of Milan-Bicocca.

2013: member of the PhD "Life Sciences" (national code: DOT13C6314) at the University of Milan-Bicocca.

2006-2012: member of the PhD "Biology" (national code: DOT04C6501) at the University of Milan-Bicocca.

Ph.D. supervisor

2019-today: Supervisor for Giulia Agostinetto, at the University of Milan-Bicocca. Research on bioinformatic tools.
2014-2018. Co-supervisor for Kleopatra Leontidou, Aristotle University of Thessaloniki, Faculty of Sciences, School of Biology, Department of Ecology, Greece. PhD title: "Airbone pollen patterns along an altitudianal gradient of the Italian Alps - Combination of classical pollen identification and next generation sequencing on environmental DNA".

Supervisor for Antonia Bruno, PhD in Biology (DOT04C6501), XXVIII cycle, at the University of Milan-Bicocca. PhD title: "Drinking water microbiota: from the source to the tap".

Supervisor for Anna Sandionigi, PhD in Biology (DOT04C6501), XXVI cycle, at the University of Milan-Bicocca. PhD title: "Biodiversity in the Era of Big Data. On the problem of taxonomy assignment and the distribution of diversity in complex biological systems."

Supervisor for Sara G. Baccei, PhD in Biology (DOT04C6501), XXVI cycle at the University of Milan-Bicocca. PhD title: "Epigenetic and symbioses. Analysis of DNA methylation pattern in *Apis mellifera* and *Varroa destructor* parasitic relationship".

Supervisor for Andrea Galimberti, PhD in Biology (DOT04C6501), XXIII cycle at the University of Milan-Bicocca. PhD title: "DNA barcoding: a link between basic and applied science".

Post-Doc Supervisor

11 projects from 2009 up to today.

Scholarship Supervisor

5 scholarships from 2011 up to today.

HiGHER EDUCATION

TEACHING IN POST GRADUATE HIGHER EDUCATION COURSES

2020-21: master “Sustainable Development Jobs “ at the University of Milan-Bicocca; in collaboration with Fondazione Giangiacomo Feltrinelli.

2017-18-19-20-21: master “Alimentazione e Dietetica Applicata - ADA” at the University of Milan-Bicocca.

2017-18-19-20: master “Bioeconomy in the Circular Economy (BIOCIRCE)” at the University of Milan-Bicocca; University of Naples “Federico II”; University of Turin and University of Bologna.

2018: higher education course “Think green, be cool” at the University of Milan-Bicocca.

2017: international workshop “Natural and semi-natural ecosystems”, Dubai.

2016: summer school “Forensic genetics” from Associazione Genetica Italiana (AGI) in Cortona (Arezzo, Tuscany, Italy).

2015-16: post graduate course “Population genetics and introduction to HTS” at Laboratorio Fitopatologico del Servizio Fitosanitario Regionale di Minoprio (Como).

2013: organisation and teacher in a Workshop entitled “10 years of DNA barcoding: yesterday, today and tomorrow”, Modena, Italy.

2013 :organisation and teacher in a Workshop entitled “DNA barcoding: basic course” at the University of Modena and Reggio Emilia. Supported by Società Italiana di Biologia Evoluzionistica (SIBE), Società Botanica Italiana (SBI) and Unione Zoologica Italiana (UZI).

2012: ECM course “DNA barcoding to track agro-food items” at the University of Pavia.

2011: organisation and teacher in a Workshop entitled “DNA barcoding: perspectives and applications in Italy” at the University of Modena and Reggio Emilia. Supported by Società Italiana di Biologia Evoluzionistica (SIBE), Società Botanica Italiana (SBI) and Unione Zoologica Italiana (UZI).

2010: Summer school on “Conservation Genetics of marine organisms” at the University of Padua.

SCIENTIFIC SOCIETIES

SCIENTIFIC SOCIETIES

Member:

Unione Zoologica Italiana (UZI)
Società Italiana di Biologia Evoluzionistica (SIBE)

Scientific societies board

2017-today: elected member of the Unione Zoologica Italiana (UZI).

2015-2017 elected member of the Società Italiana per la Biologia Evolutiva (SIBE).

2012-2015 elected president of the Società Italiana per la Biologia Evolutiva (SIBE).

2012-2015 member of the Federazione Italiana Scienze delle Vita (FISV).

2010-2012 elected memberof the Società Italiana per la Biologia Evolutiva (SIBE).

2010-2012 treasurer of the Società Italiana per la Biologia Evolutiva (SIBE).

ORGANISATION OF CONGRESSES

ORGANISATION OF SCIENTIFIC CONGRESSES AND SYMPOSIA

Organisation of scientific congresses

• 2019. Member of the scientic committee of the 80° Congress of the Unione Zoologica Italiana (Roma, 23-25 September 2019).

• 2018. Member of the scientic committee of the 79° Congress of the Unione Zoologica Italiana (Lecce, 25-28 September 2018).

• 2017. Member of the scientic committee of the 7° Congress of the Società Italiana di Biologia Evoluzionistica (Roma, 28-31 August 2017).

• 2016. Member of the scientic committee and organising team of the 1° Joint Congress among: Società Italiana di Ecologia; Unione Zoologica Italiana; Società Italiana di Biogeografia (Milano, 30 August - 2 September 2016).

• 2015. Member of the scientic committee of the 6° Congress of the Società Italiana di Biologia Evoluzionistica (Bologna, 30 August - 3 September 2015).

• 2013. Member of the scientic committee of the 5° Congress of the Società Italiana di Biologia Evoluzionistica (Trento, 28-31 August 2013).

• 2010. Member of the scientic committee and organising team of the 4° Congress of the Società Italiana di Biologia Evoluzionistica (Milano, 2-4 September 2010).

Chairman in congresses

• 79° Congresso dell'Unione Zoologica Italiana (Lecce, 25-28 Semptember 2018).

• 1° Joint Congress among: Società Italiana di Ecologia; Unione Zoologica Italiana; Società Italiana di Biogeografia (Milano, 30 August - 2 September 2016).

• 7° Congress of the Società Italiana di Biologia Evoluzionistica (Roma, 28-31 August 2017).

• 5° Congress of the Società Italiana di Biologia Evoluzionistica (Trento, 28-31 August 2013).

• 18th International Conference of the World Association for the Advancement of Veterinary Parasitology – WAAVP 2001; 26-30 Agosto 2001; Stresa

INVITED TALKS

PRINCIPAL INVITED TALKS IN NATIONAL AND INTERNATIONAL CONGRESSES

2017: AMITI Symposium, Lugano, Switzerland, 15 November

2016: Inauguration of the ninth academic year (2016/2017) Laurea Magistrale In Biologia Marina, University of Bologna, Campus Ravenna, 3 November.

2015: AMITI Symposium, Lugano, Switzerland, 18 November.

2015: Nelson Mandela University, Arusha, Tanzania, 27 January.

2014: EuroBiotechWeek, Parco Tecnologico Padano (PTP), Lodi, 7 October.

2013: FISV Talk, Roma, 18 November.

2013: 3-Day International Conference on Evolutionary Patterns, Calouste Gulbenkian Foundation, Lisbon, Portugal, 27-29 May.

2010: Tools for identifying biodiversity: progress and problems, Museum National d'Histoire Naturelle, 20-22 September.

2010: EuroScience Open Forum (ESOF), Turin, Italy, 9-14 July.

2010: iBOL meeting, Nairobi, Kenia, 12-14 May.

2009: Biodiversità molecolare: concetti di base, tecnologie, applicazioni, CNR, Roma, 9-10 July.

2009: Geneva Barcoding Day, Geneva, Switzerland, 22 June.

2008: Unione Zoologica Italiana, Senigallia, 22-25 settembre.

2008: X European Multicolloquium of Parasitology (EMOP X), Paris, France, 24-28 August

EVALUATION

SCIENTIFIC AND DIDACTIC EVALUATION

Peer review of national projects

• Fondazione di Sardegna 2016.

• F.A.R.O. Programme 2011, Università of Naple "Federico II";

• PRIN (Ministry for University) 2008 and 2009;

• Progetto Giovani 2003, University of Padua;

Peer review of international projects

- 2019: “ad hoc reviewer” per Genome Canada.
- 2018: “ad hoc reviewer” per Genome Canada.
- 2018: Vinci Project, Università Italo-Francese.
- 2017: Galileo Project, Università Italo-Francese.
- 2012: “ad hoc reviewer” from Belgian Federal Science Policy Office (BELSPO), Bruxelles for the evaluation on site of the Joint Experimental Molecular Unit (JEMU).
- 2012: Natural Environment Research Council (NERC), UK.

Evaluation committee

2020: Associate professor (SSD BIO/05 – Zoologia) at the University of Padua.

2020: Associate professor (SSD BIO/05 – Zoologia) at the University of Camerino.

2018: Assistant professor (SSD BIO/05 – Zoologia) at the University of Milan-Bicocca.

2018: Assistant professor (SSD BIO/05 – Zoologia) at the University of Pavia.

2017: Assistant professor (SSD BIO/05 – Zoologia) at the University of Pavia.

2016: Assistant professor (SSD BIO/05 – Zoologia) at the University of Milan-Bicocca.

PhD committee

2014 PhD in “Environmental Sciences - XXV cycle”, at the University of Urbino “Carlo Bo”.

2013 PhD in “Biosciences and Biotechnology, course in Evolutionary Biology - XXIV cycle”, at the University of Padua.

2011 PhD in “Animal Biology - XXII cycle”, at the University of Milan.

2010 PhD in “Evolutionary Biology - XXI cycle”, at the University of Catania.

Reviewer

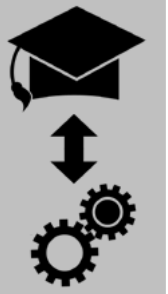
Acta Tropica; Biological Journal of the Linnean Society; Biological Invasion; BMC Evolutionary Biology; European Journal of Entomology; Fisheries Research; Food Control; Food Research International; Genetics; Genomics; Italian Journal of Zoology; Molecular Biology and Evolution; Molecular Ecology; Molecular Ecology Resources; Molecular Phylogenetics and Evolution; Paedobiologia; PLoS ONE; Proceedings of the Royal Society of London: Biological Sciences; Scientifica; Systematic Parasitology; Tissue and Cell; ecc.

Editorial board

“PLoS ONE” (http://www.plosone.org/) since 2012.

“Scientifica” (http://www.hindawi.com/journals/scientifica), “Evolutionary Biology” since 2010.

TECHNOLOGY TRANSFER



TECHNOLOGY TRANSFER

Spin off

Funder of the academic spin-off FEM^2 - Ambiente S.r.l. (http://www.fem2ambiente.com), since 15 January 2010 at the University of Milan-Bicocca.

Patent

Patent n° MI2009A001643, 25/09/2009, expire 25/06/2029: “Kit for the physical-chemical analysis of drinking water”.

Patent n° 0001417402, 24/04/2013: “Acid citric based product for cleaning”.

Brand

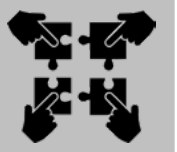
“ZPL”, for the ZooPlantLab at the University of Milan-Bicocca (http://www.zooplantlab.btbs.unimib.it). Registered on 26/01/2011, n° 1410547, deposited at Ministero dello

Sviluppo Economico, Direzione Generale per la Lotta alla Contraffazione, Ufficio Italiano Brevetti e Marchi.

"FEM" for the spin-off FEM2 - Ambiente S.r.l. Registered and deposited at Ministero dello Sviluppo Economico - Ufficio Italiano Brevetti e Marchi, 10/03/2011, codes: MI2011C002490 and MI2011C002496.

"Immediatest". Registered and deposited at Ministero dello Sviluppo Economico - Ufficio Italiano Brevetti e Marchi, 10/03/2011 codes MI2011C002491 and MI2011C002493.

"Greenpharm". Registered and deposited at office for Armonizzazione nel Mercato Interno (marchi, disegni e modelli), 22/06/2012 code 010987642.



COLLABORATIONS

COLLABORATIONS

AUSTRALIA: Nathan Lo (University of Sydney, Australia).

FRANCE: Odile Bain e Coralie Martin (Museo di Storia Naturale di Parigi).

GERMANY: William Martin (Heinrich Heine Universität Düsseldorf).

JAPAN: Shigehiko Uni (University of Osaka).

UK: Jeremy Field (University College London, UK) and Serian Sumner (University College London; University of Copenaghen; London Zoo).

SPAIN: Fernando Simon (Universidad de Salamanca).

USA: Seth Bordenstein and Jennifer Wernegreen (Josephine Bay Paul Center for Comparative Molecular Biology and Evolution, Woods Hole, MA, USA) .

USA: Scott L. Gardner (University of Nebraska).

USA: Christine A. Nalepa (North Carolina State University).

USA: John W. McCall (University of Georgia, Athens, USA).

USA: John H. Werren (University of Rochester).

VENEZUELA: Ricardo Guerrero (Universidad Central de Venezuela, Caracas).

NEW SPECIES

NEW SPECIES DEDICATION

In 2010 colleagues at the Muséum National d'Histoire Naturelle di Parigi dedicated to my name a parasitic intestinal nematode of western african chamaleon.
The species name is *Rhabdias casiraghii* Lhermitte-Vallarino, Barbuto, Bain, 2010.

SCIENCE COMMUNICATION

SCIENCE COMMUNICATION

I am involved in many activities addressed to the public. These are the principal:

Darwin Day, Natural History Museum of Milan. Organising committee member, speaker and chairman since 2012.

Darwin Day. Speaker in many cities: Como, Roma, Accademia di Brera (Milan), Pavia, Viterbo.

MeetMeTonight. In the European project "Research Night". Since 2013.

Scientific responsable of the "Cluster Rice" at EXPO2015 Milan, Feeding the planet, energy for life!

University of Third Age, at Melzo, Arcore, Paullo since 2012.

Seminars in primary schools and colleges on education, university world and many aspects of biology.

Former blogger "Continuo proceso de cambio" (Pearson) devoted to teachers.

OPEN BADGE ACQUIRED

OPEN BADGES

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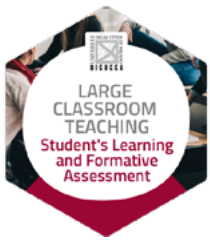

link

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PUBBLICATIONS LISTED IN SCOPUS

PUBBLICATIONS

87) Galimberti A, Bruno A, Agostinetto G, Casiraghi M, Guzzetti L, Labra M (2021). Fermented food products in the era of globalization: tradition meets biotechnology innovations. Current Opinion in Biotechnology, 70: 36-41.

doi: 10.1016/j.copbio.2020.10.006

SCOPUS:2-s2.0-85096494975

86) Bruno A, Sandionigi A, Magnani D, Bernasconi M, Pannuzzo B, Consolandi C, Camboni T, Labra M, Casiraghi M (2021). Different effects of mineral versus vegetal granular activated carbon filters on the microbial community composition of a drinking water treatment plant. Frontiers in Ecology and Evolution, 9: 615513.

doi: 10.3389/fevo.2021.615513

SCOPUS: 2-s2.0-85103856879

85) Scolari F, Sandionigi A, Carlassara M, Bruno A, Casiraghi M, Bonizzoni M (2021). Exploring changes in the microbiota of *Aedes albopictus*: comparison among breeding site water, larvae, and adults. Frontiers in Microbiology, 12: 624170.

doi: 10.3389/fmicb.2021.624170

SCOPUS: 2-s2.0-85100975957

84) Galimberti A, Assandri G, Maggioni D, Ramazzotti F, Baroni D, Bazzi G, Chiandetti I, Corso A, Ferri V, Galuppi M, Ilahiane L, La Porta G, Laddaga L, Landi F, Mastropasqua F, Ramellini S, Santinelli R, Soldato G, Surdo S, Casiraghi M (2021). Italian odonates in the Pandora's box: A comprehensive DNA barcoding inventory shows taxonomic warnings at the Holarctic scale. Molecular Ecology Resources, 21: 183-200.

doi: 10.1111/1755-0998.13235

SCOPUS: 2-s2.0-85089449195

83) Galimberti A, Cena H, Campone L, Ferri E, Dell'Agli M, Sangiovanni E, Belingheri M, Riva MA, Casiraghi M, Labra M (2020). Rethinking urban and food policies to improve citizens safety after COVID-19 pandemic. Frontiers in Nutrition, 7: 569542.

doi: 10.3389/fnut.2020.569542

SCOPUS: 2-s2.0-85093967417

82) Frigerio J, Agostinetto G, Sandionigi A, Mezzasalma V, Berterame NM, Casiraghi M, Labra M, Galimberti A (2020). The hidden 'plant side' of insect novel foods: A DNA-based assessment. Food Research International, 128:108751.

doi: 10.1016/j.foodres.2019.108751

SCOPUS: 2-s2.0-85074922608

81) Scolari F, Casiraghi M, Bonizzoni M (2019). *Aedes* spp. and their microbiota: a review. Frontiers in Microbiology, 10: 2036.

doi: 10.3389/fmicb.2019.02036

SCOPUS: 2-s2.0-85072897035

80) Galimberti A, Casiraghi M, Bruni I, Guzzetti L, Cortis P, Berterame NM, Labra M (2019). From DNA barcoding to personalized nutrition: the evolution of food traceability. Current Opinion in Food Science, 28: 41-48.

doi: 10.1016/j.cofs.2019.07.008

SCOPUS: 2-s2.0-85071314229

79) Bruno A, Sandionigi A, Agostinetto G, Bernabovi L, Frigerio J, Casiraghi M, Labra M (2019). Food tracking perspective: DNA metabarcoding to identify plant composition in complex and processed food products. Genes, 10: 248
doi: 10.3390/genes10030248
SCOPUS: 2-s2.0-85064638723

78) Bruno A, Sandionigi A, Bernasconi M, Panio A, Labra M, Casiraghi M (2018). Changes in the drinking water microbiome: effects of water treatments along the flow of two drinking water treatment plants in a urbanized area, Milan (Italy). Frontiers in Microbiology, 9: 2557, pp. 1-12.
doi: 10.3389/fmicb.2018.02557
SCOPUS: 2-s2.0-85067894451

77) Nardone V, Bosso L, Della Corte M, Sasso M, Galimberti A, Bruno A, Casiraghi M, Russo D (2018). Native red foxes depredate nests of alien pond sliders: Evidence from molecular detection of prey in scats. Mammalian Biology, 88: 72-74.
doi: doi.org/10.1016/j.mambio.2017.11.012
SCOPUS: 2-s2.0-85036500065

76) Balech B, Sandionigi A, Manzari C, Trucchi E, Tullo A, Licciulli F, Grillo G, Sbisà E, De Felici S, Saccone C, D'Erchia AM, Cesaroni D, Casiraghi M, Vicario S. (2018). Tackling critical parameters in metazoan meta-barcoding experiments: a preliminary study based on *coxI* DNA barcode. PeerJ, 6: e4845.
doi: 10.7717/peerj.4845
SCOPUS: 2-s2.0-85048560403

75) Mezzasalma V, Sandionigi A, Bruni I, Bruno A, Lovicu G, Casiraghi M, Labra M (2017). Grape microbiome as a reliable and persistent signature of field origin and environmental conditions in Cannonau wine production. PLoS ONE, 12: e0184615.
doi: doi.org/10.1371/journal.pone.0184615
SCOPUS: 2-s2.0-85029527681

74) Valentini P, Galimberti A, Mezzasalma V, De Mattia F, Casiraghi M, Labra M, Pompa PP (2017). DNA barcoding meets nanotechnology: development of a smart universal tool for food authentication. Angewandte Chemie, 129: 8206-8210.
doi: 10.1002/ange.201702120
SCOPUS: 2-s2.0-85020431234

73) Wauters LA, Amori G, Aloise G, Gippoliti S, Agnelli P, Galimberti A, Casiraghi M, Preatoni D, Martinoli A (2017). New endemic mammal species for Europe: *Sciurus meridionalis* (Rodentia, Sciuridae). Hystrix, the Italian Journal of Mammalogy, 28.
doi: dx.doi.org/10.4404/hystrix-28.1-12015
SCOPUS: 2-s2.0-85020403302

72) Bruno A, Sandionigi A, Galimberti A, Siani E, Labra M, Cocuzza C, Ferri E, Casiraghi M (2017). One step forward for the routine use of high-throughput DNA sequencing in environmental monitoring. An efficient and standardizable method to maximize the detection of environmental bacteria. Microbiology Open, 6: e00421.
doi: 10.1002/mbo3.421
SCOPUS: 2-s2.0-84995945098

71) Cardoso DC, Sandionigi A, Cretoiu MS, Casiraghi M, Stal L, Bolhuis H (2017). Comparison of the active and resident community of a coastal microbial mat. Scientific Reports, 7: 2969.
doi: doi.org/10.1038/s41598-017-03095-z
SCOPUS: 2-s2.0-85020440736

70) Bruno A, Sandionigi A, Rizzi E, Bernasconi M, Vicario S, Galimberti A, Cocuzza C, Labra M, Casiraghi M (2017). Exploring the under-investigated "microbial dark matter" of drinking water treatment plants. Scientific Reports, 7: 44350.
doi: doi.org/10.1038/srep44350
SCOPUS: 2-s2.0-85015330374

69) Casiraghi M, Galimberti A, Sandionigi A, Bruno A, Labra M (2016). Life with or without names. Evolutionary Biology, 43: 582-595.
doi: 10.1007/s11692-016-9384-5
SCOPUS: 2-s2.0-84964321091

68) De Candia P, De Rosa V, Casiraghi M, Matarese G (2016). Extracellular RNAs: a secret arm of immune system regulation. Journal of Biological Chemistry, 291: 7221-7228.
doi: 10.1074/jbc.R115.708842
SCOPUS: 2-s2.0-84964844037

67) Lavikainen A, Iwaki T, Haukisalmi V, Konyaev SV, Casiraghi M, Dokuchaev NE, Galimberti A, Halajian A, Henttonen H, Ichikawa-Seki M, Itagaki T, Krivopalov AV, Meri S, Morand S, Näreaho A, Olsson GE, Ribas A, Terefe Y, Nakao M (2016). Reappraisal of *Hydatigera taeniaeformis* (Batsch, 1786) (Cestoda: Taeniidae) sensu lato with description of *Hydatigera kamiyai* n. sp. International Journal for Parasitology, 46: 361-374.
doi: 10.1016/j.ijpara.2016.01.009
SCOPUS: 2-s2.0-84963930809

66) Mazzamuto MV, Galimberti A, Cremonesi G, Pisanu B, Chapuis J-L, Stuyck J, Amori G, Su H-J, Aloise G, Preatoni DG, Wauters LA, Casiraghi M, Martinoli A (2016). Preventing species invasion: a role for integrative taxonomy? Integrative Zoology, 11: 214-228.
doi: 10.1111/1749-4877.12185
SCOPUS: 2-s2.0-84965101665

65) Solano E, Thomaes A, Cox K, Carpaneto GM, Cortellessa S, Baviera C, Bartolozzi L, Zilioli M, Casiraghi M, Audisio P, Antonini G (2016). When morphological identification meets genetic data: the case of *Lucanus cervus* and *L. tetraodon* (Coleoptera, Lucanidae). Journal of Zoological Systematics and Evolutionary Research, 54: 197-205.
doi: 10.1111/jzs.12124
SCOPUS: 2-s2.0-84981554822

64) Ferri E, Galimberti A, Casiraghi M, Airoldi C, Ciaramelli C, Palmioli A, Mezzasalma V, Bruni I, Labra M (2015). Towards a universal approach based on omics technologies for the quality control of food. BioMed Research International, Article ID: 365794.
doi:10.1155/2015/365794
SCOPUS: 2-s2.0-84954172818

63) Galimberti A, Sandionigi A, Bruno A, Bellati A, Casiraghi M (2015). DNA barcoding in mammals: what's new and where next? Hystrix, the Italian Journal of Mammalogy, 26, 13-24.
doi: 10.4404/hystrix-26.1-11347
SCOPUS: 2-s2.0-84940903355

62) Bruni I, Galimberti A, Caridi L, Scaccabarozzi D, De Mattia F, Casiraghi M, Labra M (2015). A DNA barcoding approach to identify plant species in multiflower honey. Food Chemistry, 170, 308-315.
doi: 10.1016/j.foodchem.2014.08.060
SCOPUS: 2-s2.0-84906966579

61) Comtet T, Sandionigi A, Viard F, Casiraghi M (2015). DNA (meta)barcoding of biological invasions: a powerful tool to elucidate invasion processes and help managing aliens. Biological Invasions, 17(3), 905-922.
doi: 10.1007/s10530-015-0854-y
SCOPUS: 2-s2.0-84925535048

60) Sandionigi A, Vicario S, Prosdocimi EM, Galimberti A, Ferri E, Bruno A, Balech B, Mezzasalma V, Casiraghi M (2015). Towards a better understanding of *Apis mellifera* and *Varroa destructor* microbiomes: introducing 'phyloH' as a novel phylogenetic diversity analysis tool. Molecular Ecology Resources, 15: 697–710.
doi: 10.1111/1755-0998.12341
SCOPUS: 2-s2.0-84922389307

59) BOOK CHAPTER: Galimberti A, Sandionigi A, Bruno A, Bruni I, Barbuto M, Casiraghi M, Labra M (2015). Towards a universal molecular approach for the quality control of new foodstuffs. Advances in Food Biotechnology, a cura di Ravishankar Rai V, John Wiley & Sons, pp. 37-60.
doi: 10.1002/9781118864463.ch04
SCOPUS: s2.0-85009854030

58) Andreone F, Bartolozzi L, Boano G, Boero F, Bologna MA, Bon M, Bressi N, Capula M, Casale A, Casiraghi M, Chiozzi G, Delfino M, Doria G, Durante A, Ferrari M, Gippoliti S, Lanzinger M, Latella L, Maio N, Marangoni C, Mazzotti S, Minelli A, Muscio G, Nicolosi P, Pievani T, Razzetti E, Sabella G, Valle M,

Vomero V, Zilli, A. (2014). Italian natural history museums on the verge of collapse? ZooKeys, 456: 139.
doi: 10.3897/zookeys.456.8862
SCOPUS: 2-s2.0-84931463524

57) Galimberti A, De Mattia F, Bruni I, Scaccabarozzi D, Sandionigi A, Barbuto M, Casiraghi M, Labra M (2014). A DNA barcoding approach to characterize pollen collected by honeybees. PLoS ONE 9(10): e109363.
doi: 10.1371/journal.pone.0109363
SCOPUS: 2-s2.0-84907842360

56) Bellati A, Tiberti R, Cocca W, Galimberti A, Casiraghi M, Bogliani G, Galeotti P (2014). A dark shell hiding great variability: a molecular insight into the evolution and conservation of melanic *Daphnia* populations in the Alps. Zoological Journal of the Linnean Society, 171: 697-715.
doi: 10.1111/zoj.12151
SCOPUS: 2-s2.0-84904732659

55) Andrietti F, Polidori C, Casiraghi M, Bellati A, Passerini E, Martinoli A (2013). Small–scale sympatric digger wasps *Oxybelus argentatus* and *Oxybelus trispinosus* segregate activity, hunt for different prey, and diverge in nesting behaviour. Annales de la Société Entomologique de France, 49: 205-221.
doi: 10.1080/00379271.2013.815041
SCOPUS: 2-s2.0-84882398478

54) Galimberti A, De Mattia F, Losa A, Bruni I, Federici S, Casiraghi M, Martellos S, Labra M (2013). DNA barcoding as a new tool for food traceability. Food Research International, 50: 55-63.
doi: 10.1016/j.foodres.2012.09.036
SCOPUS: 2-s2.0-84868232013

53) Sandionigi A, Galimberti A, Labra M, Ferri E, Panunzi E, De Mattia F, Casiraghi M (2012). Analytical approaches for DNA barcoding data – how to find a way for plants? Plant Biosystems, 146: 805-813.
doi:10.1080/11263504.2012.740084
SCOPUS: 2-s2.0-84869426553

52) Prosdocimi EM, Novati S, Bruno R, Bandi C, Mulatto P, Giannico R, Casiraghi M, Ferri E (2012). Errors in ribosomal sequence datasets generated using PCR-coupled 'panbacterial' pyrosequencing, and the establishment of an improved approach. Molecular and Cellular Probes, 27: 65-67.
doi: 10.1016/j.mcp.2012.07.003
SCOPUS: 2-s2.0-84865159597

51) Lefoulon E, Gavotte L, Junker K, Barbuto M, Uni S, Landmann F, Laaksonen S, Saari S, Nikander S, de Souza Lima S, Casiraghi M, Bain O, Martin C (2012). A new type F *Wolbachia* from Splendidofilariinae (Onchocercidae) supports the recent emergence of this supergroup. International Journal for Parasitology, 42: 1025–1036.
doi: 10.1016/j.ijpara.2012.09.004
SCOPUS: 2-s2.0-84867525038

50) De Mattia F, Gentili R, Bruni I, Galimberti A, Sgorbati S, Casiraghi M, Labra M (2012). A multi-marker DNA barcoding approach to save time and resources in vegetation surveys. Botanical Journal of the Linnean Society, 169: 518-529.
doi: 10.1111/j.1095-8339.2012.01251.x
SCOPUS: 2-s2.0-84862533015

49) Bruni I, De Mattia F, Martellos S, Galimberti A, Savadori P, Casiraghi M, Nimis PL, Labra M (2012). DNA barcoding as an effective tool in improving a digital plant identification system: a case study for the area of Mt. Valerio, Trieste (NE Italy). PLoS ONE 7: e43256.
doi: 10.1371/journal.pone.0043256
SCOPUS: 2-s2.0-84869393149

48) Galimberti A, Spada M, Russo D, Mucedda M, Agnelli P, Crottini A, Ferri E, Martinoli A, Casiraghi M (2012). Integrated Operational Taxonomic Units (IOTUs) in echolocating bats: a bridge between molecular and traditional taxonomy. PLoS ONE 7: e40122.
doi: 10.1371/journal.pone.0040122.
SCOPUS: 2-s2.0-84862992808

47) Galimberti A, Romano DF, Gench M, Paoloni D, Vercillo F, Bizzarri L, Sassera D, Bandi C, Genchi C, Ragni B, Casiraghi M (2012). Integrative taxonomy at work: DNA barcoding of taeniids harboured by wild and domestic cats. Molecular Ecology Resources, 12: 403-413.
doi: 10.1111/j.1755-0998.2011.03110.x
SCOPUS: 2-s2.0-84859586379

46) Crottini A, Barbuto M, Casiraghi M, Andreone F (2011). A rapid amphibian survey at Itremo-Ambatofinandrahana, central Madagascar, with confirmed absence of chytrid fungus and recommendations for future monitoring activities. North-Western Journal of Zoology 7: 346-351.
ISSN: 15849074
SCOPUS: 2-s2.0-84855853119

45) Ferri E, Bain O, Barbuto M, Martin C, Lo N, Uni S, Landmann F, Baccei SG, Guerrero R, Lima SD, Bandi C, Wanji S, Diagne M, Casiraghi M (2011). New insights into the evolution of *Wolbachia* infections in filarial nematodes inferred from a large range of screened species. PLoS ONE, 6: e20843.
doi: 10.1371/journal.pone.0020843
SCOPUS: 2-s2.0-79959441925

44) Bellati A, Pellitteri-Rosa D, Sacchi R, Nistri A, Galimberti A, Casiraghi M, Fasola M, Galeotti P (2011). Molecular survey of morphological subspecies reveals new mitochondrial lineages in *Podarcis muralis* (Squamata: Lacertidae) from the Tuscan Archipelago (Italy). Journal of Zoological Systematics and Evolutionary Research, 49: 240-250.
doi: 10.1111/j.1439-0469.2011.00619.x
SCOPUS: 2-s2.0-79960077850

43) Otranto D, Diniz DG, Dantas-Torres F, Casiraghi M, de Almeida INF, de Almeida LNF, Nascimento dos Santos J, Furtado AP, de Almeida Sobrinho EF, Bain O (2011). Human intraocular filariasis caused by *Dirofilaria* sp. nematode, Brazil. Emerging Infectious Diseases, 17: 863-866.
doi: 10.3201/eid1705.100916
SCOPUS: 2-s2.0-79953812558

42) Crottini A, Glaw F, Casiraghi M, Jenkins RKB, Mercurio V, Randrianantoandro JC, Randrianirina JE, Andreone F (2011). A new *Gephyromantis* (*Phylacomantis*) frog species from the pinnacle karst of Bemaraha, western Madagascar. Zookeys, 81: 51-71.
doi: 10.3897/zookeys.81.1111
SCOPUS: 2-s2.0-79960025649

41) De Mattia F, Bruni I, Galimberti A, Cattaneo F, Casiraghi M, Labra M (2011). A comparative study of different DNA barcoding markers for the identification of some members of Lamiacaea. Food Research International, 44: 693–702.
doi: 10.1016/j.foodres.2010.12.032
SCOPUS: 2-s2.0-79952362274

40) Crottini A, Galimberti A, Boto A, Serra L, Liu Y, Yeung C, Yang XJ, Barbuto M, Casiraghi M (2010). Toward a resolution of a taxonomic enigma: First genetic analyses of *Paradoxornis webbianus* and *Paradoxornis alphonsianus* (Aves: Paradoxornithidae) from China and Italy. Molecular Phylogenetics and Evolution, 57:1312-1318.
doi: 10.1016/j.ympev.2010.09.009
SCOPUS: 2-s2.0-78649657837

39) Ferri E, Novati S, Casiraghi M, Sambri V, Genco F, Gulminetti R, Bandi C (2010). Plasma levels of bacterial DNA in HIV infection: the limits of quantitative polymerase chain reaction. The Journal of Infectious Diseases 202: 176-177.
doi: 10.1086/653215
SCOPUS: 2-s2.0-77953717144

38) Bruni I, De Mattia F, Galimberti A, Galasso G, Banfi E, Casiraghi M, Labra M (2010). Identification of poisonous plants by DNA barcoding approach. International Journal of Legal Medicine, 124: 595-603.
doi: 10.1007/s00414-010-0447-3
SCOPUS: 2-s2.0-78651252912

37) Casiraghi M, Labra M, Ferri E, Galimberti A, De Mattia F (2010). DNA barcoding: a six-question tour to improve users' awareness about the method. Briefings in Bioinformatics, 11: 440-453.
doi: 10.1093/bib/bbq003
SCOPUS: 2-s2.0-77955014461

36) Ficetola GF, Crottini A, Casiraghi M, Padoa-Schioppa E (2010). New data on amphibians and reptiles of the Northern Areas of Pakistan: distribution, genetic variability and conservation issues. North-Western Journal of Zoology, 6: 1-12.
ISSN: 15849074
SCOPUS: 2-s2.0-77955619999

35) Barbuto M, Galimberti A, Ferri E, Labra M, Malandra R, Galli P, Casiraghi M (2010). DNA barcoding reveals fraudulent substitutions in shark seafood products: The Italian case of "palombo" (*Mustelus* spp.). Food Research International, 43: 376-381.
doi: 10.1016/j.foodres.2009.10.009
SCOPUS: 2-s2.0-72149105300

34) Dantas-Torres F, Lia RP, Barbuto M, Casiraghi M, Crovace A, Cagliani L, Genchi C, Otranto D (2009). Ocular dirofilariosis by *Dirofilaria immitis* in a dog: first case report from Europe. Journal of Small Animal Practice, 50: 667-669.
doi: 10.1111/j.1748-5827.2009.00846.x
SCOPUS: 2-s2.0-71149111640

33) Ferri E, Barbuto M, Bain O, Galimberti A, Uni S, Guerrero, Fertè H, Bandi C, Martin C, Casiraghi M (2009). Integrated taxonomy: traditional approach and DNA barcoding for the identification of filarioid worms and related parasites (Nematoda). Frontiers in Zoology, 6: 1.
doi: 10.1186/1742-9994-6-1
SCOPUS: 2-s2.0-62549114950

32) Junker K, Barbuto M, Casiraghi M, Martin C, Uni S, Boomker J, Bain O (2009). *Litomosa chiropterorum* Ortlepp, 1932 (Nematoda: Filarioidea) from a South African miniopterid: redescription, *Wolbachia* screening and phylogenetic relationships with *Litomosoides*. Parasite, 16: 43-50.
doi: 10.1051/parasite/2009161043
SCOPUS: 2-s2.0-62949130739

31) Federici S, Clemenzi S, Favelli M, Tessa G, Andreone F, Casiraghi M, Crottini A (2008). Identification of the pathogen *Batrachochytrium dendrobatidis* in amphibian populations of a plain area in the Northwest of Italy. Herpetology Notes, 1: 33-37.
ISSN: 20715773
SCOPUS: 2-s2.0-70449705305

30) Crottini A, Marotta R, Barbuto M, Casiraghi M, Ferraguti M (2008). The world in a river? A preliminary analysis of the 16S rDNA variability of *Tubifex* species (Clitellata: Tubificidae) from the Lambro River. Molecular Phylogenetics and Evolution, 48: 1189-1203.
doi: 10.1016/j.ympev.2008.06.012
SCOPUS: 2-s2.0-50249167615

29) Bain O, Casiraghi M, Martin C, Uni S (2008). The Nematoda Filarioidea: critical analysis linking molecular and traditional approaches. Parasite, 15: 342-348.
doi: 10.1051/parasite/2008153342
SCOPUS: 2-s2.0-51149107834

28) Andrietti F, Casiraghi M, Martinoli A, Polidori C, Montresor C (2008). Nesting habits of two spider wasps: *Anoplius infuscatus* and *Episyron* sp. (Hymenoptera: Pompilidae), with a review of the literature. Annales de la Société Entomologique de France, 44: 93-111.
doi: 10.1080/00379271.2008.10697547
SCOPUS: 2-s2.0-46049083015

27) Casiraghi M, Ferri E, Bandi C (2007). *Wolbachia*: evolutionary significance in nematodes. Issues in Infectious Diseases, 5: 15-30.
doi: 10.1159/000104230
SCOPUS: 2-s2.0-84870045703

26) Polidori C, Casiraghi M, Di Lorenzo M, Valarani B, Andrietti F (2006). Philopatry, nest choice and aggregation temporal-spatial change in the digger wasp *Cerceris arenaria* (Hymenoptera: Crabronidae). Journal of Ethology, 24: 155-163.
doi: 10.1007/s10164-005-0176-0
SCOPUS: 2-s2.0-33645963119

25) Casiraghi M, Bazzocchi C, Mortarino M, Ottina E, Genchi C (2006). A simple molecular method for discriminating common filarial nematodes of dogs (*Canis familiaris*). Veterinary Parasitology, 141: 368-372.
doi: 10.1016/j.vetpar.2006.06.006
SCOPUS: 2-s2.0-33749527883

24) Bolton A, Sumner S, Shreeves G, Casiraghi M, Field J (2006). Colony genetic structure in a facultatively eusocial hover wasp. Behavioral Ecology, 17: 873-880.
doi:10.1093/beheco/arl020
SCOPUS: 2-s2.0-33749532998

23) Lo N, Luykx P, Santoni R, Beninati T, Bandi C, Casiraghi M, Wen-hua L, Zakharov EV, Nalepa CA (2006). Molecular phylogeny of *Cryptocercus* wood-roaches based on mitochondrial COII and 16S sequences, and chromosome numbers in palaearctic representatives. Zoological Science, 23: 393-398.
doi:10.2108/zsj.23.393
SCOPUS: 2-s2.0-33745036698

22) Casiraghi M, Bordenstein S, Baldo L, Lo N, Wernegreen X, Werren JH, Bandi C (2005). Phylogeny of *Wolbachia* based on *gltA*, *groEL* and *ftsZ* gene sequences: clustering of arthropod and nematode symbionts in the F supergroup and evidence for two further supergroups. Microbiology, 151: 4015-4022.
doi: 10.1099/mic.0.28313-0
SCOPUS: 2-s2.0-29244466149

21) Casiraghi M, Ferraguti M (2005). The occurrence of strongylid nematodes in the epididymides of wood mice. Trends in Parasitology, 21: 305-307.
doi: 10.1016/j.pt.2005.05.014
SCOPUS: 2-s2.0-20444379929

20) Bonfanti U, Bertazzolo W, Magliaro L, Demarco B, Venco L, Casiraghi M, Bandi C (2004). Clinical, cytological and molecular evidence of *Mesocestoides* sp. infection in a dog from Italy. Journal of Veterinary Medicine, 51: 435-438.
doi: 10.1111/j.1439-0442.2004.00664.x
SCOPUS: 2-s2.0-21644439891

19) Fabbi M, de Giuli L, Tranquillo M, Bragoni R, Casiraghi M, Genchi C (2004). Prevalence of *Bartonella henselae* in Italian stray cats: evaluation of serology to assess the risk of transmission of *Bartonella* to humans. Journal of Clinical Microbiology, 42: 264-268.
doi: 10.1128/JCM.42.1.264-268.2004
SCOPUS: 2-s2.0-0347093262

18) Casiraghi M, Bain O, Guerrero R, Martin C, Pocacqua V, Gardner SL, Franceschi A, Bandi C (2004). Mapping the presence of *Wolbachia pipientis* on the phylogeny of filarial nematodes: evidence for symbiont loss during evolution. International Journal for Parasitology, 34: 191-203.
doi: 10.1016/j.ijpara.2003.10.004
SCOPUS: 2-s2.0-1242316942

17) Sacchi L, Corona S, Kramer LH, Calvi L, Casiraghi M, Franceschi A (2003). Ultrastructural evidence of the degenerative events occurring during embryogenesis of the filarial nematode *Brugia pahangi* after tetracycline treatment. Parassitologia, 45: 89-96.
ISSN: 00482951
SCOPUS: 2-s2.0-4444356753

16) Casiraghi M, Werren JH, Bazzocchi C, Biserni A, Bandi C (2003). dnaA gene sequences from *Wolbachia pipientis* support subdivision into supergroups and provide no evidence for recombination in the lineages infecting nematodes. Parassitologia, 45: 13-18.
ISSN: 00482951
SCOPUS: 2-s2.0-4444356717

15) Favia G, Cancrini G, Ferroglio E, Casiraghi M, Ricci I, Rossi L (2003). Molecular assay for the identification of *Setaria tundra.* Veterinary Parasitology, 117: 139-145.
doi: 10.1016/S0304-4017(03)00210-3
SCOPUS: 2-s2.0-0242298586

14) Casiraghi M, Polidori C, Ferreri P, Preatoni DG, Andrietti F, Martinoli A (2003). Does the distance between nest clusters affect reproductive success in *Ammophila sabulosa* (Hymenoptera Sphecidae). Ethology, Ecology and Evolution, 15: 329-341.

doi: 10.1080/08927014.2003.9522660
SCOPUS: 2-s2.0-1642477484

13) Kramer LH, Passeri B, Corona S, Simoncini L, Casiraghi M (2003). Immunohistochemical immunogold detection and distribution of the endosymbiont *Wolbachia* of *Dirofilaria immitis* and *Brugia pahangi* using a polyclonal antiserum raised against WSP (*Wolbachia* surface protein). Parasitology Research, 89: 381-386.
doi: 10.1007/s00436-002-0765-6
SCOPUS: 2-s2.0-0037350711

12) Genchi C, Rossi L, Cardini G, Kramer LH, Venco L, Casiraghi M, Genchi M, Agostini A (2002). Full season efficacy of moxidectin microsphere sustained release formulation for the prevention of hearthworm (*Dirofilaria immitis*) infection in dogs. Veterinary Parasitology, 110: 85-91.
doi: 10.1016/S0304-4017(02)00325-4
SCOPUS: 2-s2.0-0037065236

11) Baldo L, J. Bartos D, Werren JH, Bazzocchi C, Casiraghi M, Panelli S (2002). Different rates of nucleotide substitutions in *Wolbachia* endosymbionts of arthropods and nematodes: arms race or host shifts. Parassitologia, 44: 179-187.
ISSN: 00482951
SCOPUS: 2-s2.0-0038654271

10) Casiraghi M, McCall JW, Simoncini L, Kramer LH, Sacchi L, Genchi C, Werren JH, Bandi C (2002). Tetracycline treatment and sex-ratio distortion: a role for *Wolbachia* in the moulting of filarial nematodes. International Journal for Parasitology, 32: 1457-1468.
doi: 10.1016/S0020-7519(02)00158-3
SCOPUS: 2-s2.0-0036829468

9) Sumner S, Casiraghi M, Foster W, Field J (2002). High reproductive skew in tropical hover wasps. Proceedings of the Royal Society of London B: Biological Sciences, 269: 179-186.
doi: 10.1098/rspb.2001.1884
SCOPUS: 2-s2.0-53149089093

8) Lo N, Casiraghi M, Salati E, Bazzocchi C, Bandi C (2002). How many *Wolbachia* supergroups exist. Molecular Biology and Evolution, 19: 341-346.
doi: 10.1093/oxfordjournals.molbev.a004087
SCOPUS: 2-s2.0-0036184350

7) Sacchi L, Corona S, Casiraghi M, Bandi C (2002). Does fertilization in the filarial nematode *Dirofilaria immitis* occur through phagocytosis of spermatozoa. Parasitology, 124: 87-95.
doi: 10.1017/S0031182001008964
SCOPUS: 2-s2.0-0036319289

6) Simoncini L, Casiraghi M, Bazzocchi C, Sacchi L, Bandi C, Genchi C (2001). Real-time PCR for quantification of the bacterial endosymbionts (*Wolbachia*) of filarial nematodes. Parassitologia, 43: 173-178.
ISSN: 00482951
SCOPUS: 2-s2.0-0035553443

5) Casiraghi M, Martinoli A, Bosco T, Preatoni DG, Andrietti F (2001). Nest provisioning and stinging pattern in *Ammophila sabulosa* L. (Hymenoptera: Sphecidae): influence of prey size. Italian Journal of Zoology, 68: 299-303.
doi: 10.1080/11250000109356422
SCOPUS: 2-s2.0-0035720858

4) Casiraghi M, Andrietti F, Martinoli A, Bonasoro F (2001). A note on host detection by *Buathra tarsoleuca* (Schrank) (Hymenoptera: Ichneumonidae), a parasite of *Ammophila sabulosa* (L.) and *Podalonia affinis* (Kirby) (Hymenoptera: Sphecidae). Journal of Insect Behavior, 14: 299-312.
doi: 10.1023/A:1011163027521
SCOPUS: 2-s2.0-0034974122

3) Casiraghi M, Favia G, Cancrini G, Bartoloni A, Bandi C (2001). Molecular identification of *Wolbachia* from the filarial nematode *Mansonella ozzardi*. Parasitology Research, 87(5): 417-420.
doi: 10.1007/s004360000368
SCOPUS: 2-s2.0-0035041090

2) Casiraghi M, Anderson TJC, Bandi C, Bazzocchi C, Genchi C (2001). A phylogenetic analysis of filarial nematodes: comparison with the phylogeny of *Wolbachia* endosymbionts. Parasitology, 122: 93-103.
doi: 10.1017/S0031182000007149
SCOPUS: 2-s2.0-0035130941

1) Field J, Shreeves G, Sumner S, Casiraghi M (2000). Assured fitness returns advantage to helpers in a tropical hover wasp. Nature, 404: 869-871.
doi: 10.1038/35009097
SCOPUS: 2-s2.0-0034690243

BOOKS

BOOKS, BOOK CHAPTER AND INVITED CONTRIBUTION

17) Casiraghi M, De Eguileor M, Cerrano C, Puce S (2018). Zoologia, UTET Università.
ISBN: 9788860085184

16) In: Le declinazioni del cibo – Nutrizione, salute, cultura. A cura di Sironi VA, Morini G. Editori Laterza.
Casiraghi M (2015). Organismi geneticamente modificati e alimentazione: opportunità o calamità? pp. 167-174.

15) In: "Advances in Food Biotechnology" a cura di Ravishankar Rai V, John Wiley & Sons.
Galimberti A, Sandionigi A, Bruno A, Bruni I, Barbuto M, Casiraghi M, Labra M (2015). Towards a universal molecular approach for the quality control of new foodstuffs. pp. 37-60.
doi: 10.1002/9781118864463.ch04
SCOPUS:s2.0-85009854030

14) In: "Monitoraggio di uccelli e mammiferi in Lombardia: tecniche e metodi di rilevamento". A cura di Tosi G, Gagliardi A.
Galimberti A, Barbuto M, Casiraghi M (2012). Tecnologie di supporto e analisi complementari al monitoraggio faunistico – Monitoraggio genetico. pp. 195-199.
ISBN: 9788897594055

13) In: "Terra! Conservare le superfici, tutelare la risorsa: il suolo, un bene comune". A cura di: Damiano Di Simine. Maggioli Editore.
Casiraghi M (2012). Consumo di suolo e perdita della biodiversità. pp. 95-99.
ISBN: 978-88-387-6097-7

12) In: "Noi e la biologia – Dalle biomolecole all'organismo umano". Tramontana Editore – RCS Libri S.p.A. – Divisione Education.
Capitolo 16 – Casiraghi M (2012). L'evoluzione dell'uomo. pp. 418-436.
ISBN: 978-88-233-3486-1

11) In: "Evoluzione – Modelli e processi". A cura di: Marco Ferraguti e Carla Castellacci. Pearson.
Capitolo 13 - Casiraghi M (2011). Coevoluzione. pp. 294-314.
ISBN: 978-88-719-2624-7

10) In: "Evoluzione – Modelli e processi". A cura di: Marco Ferraguti e Carla Castellacci. Pearson.
Capitolo 12 - Casiraghi M (2011). Simbiosi. pp. 272-293.
ISBN: 978-88-719-2624-7

9) Nel biennio 2010-2012 ho partecipato, con diversi contributi, alle seguenti opere enciclopediche:
Enciclopedia Italiana Treccani;
Enciclopedia "Ecosphera" (diretta da Niles Eldredge e Telmo Pievani), UTET.
ISBN: 9788802083797.

8) In: "Tools fo identifying biodiversity: Progress and Problems". Editors: Nimis PL, Vignes Lebbe R. Edizioni Università di Trieste.
Galimberti A, Martinoli A, Russo D, Mucedda M, Casiraghi M (2010). Molecular identification of Italian mouse-eared bats (genus *Myotis*). pp. 289-294.
ISBN: 978-88-8303-295-0

7) In: "Tools fo identifying biodiversity: Progress and Problems". Editors: Nimis PL, Vignes Lebbe R. Edizioni Università di Trieste.
Casiraghi M, Labra M, Ferri E, Galimberti A, De Mattia F (2010). DNA barcoding: theoretical aspects and practical applications. pp. 269-273.

ISBN: 978-88-8303-295-0

6) In: “accadueo – H2O”. Editor: Martinotti G., Università degli Studi di Milano – Bicocca e Skira.
Casiraghi M, Labra M (2008). Acqua e biodiversità. pp. 242-263.
ISBN: 886130730

5) In: “Issues Infectious Diseases”. Editors: Hoerauf A, Rao R, Karger, Basel, Svizzera.
Casiraghi M, Ferri E, Bandi C (2007). *Wolbachia*: Evolutionary significance in nematodes. vol 5, pp 1–16.
doi: 10.1159/000104230

4) Gasser RB, Zarlenga DS, Thompson RCA, La Rosa G, Pozio E, Rosenthal B, Bandi C, Mortarino M, Casiraghi M, Genchi C, Hu A, Chilton NB, Matthews JB, Hodgkinson JE (2004). Molecular systematics and diagnosis. Veterinary Parasitology, 125 (Sp. Iss.): 69-92.
doi: 10.1016/j.vetpar.2004.05.006

3) In: “Recent Advances in Hearthworm Disease”, Symposium 2002, American Hearthworm Society, Batavia, IL, USA.
Genchi C, Simoncini L, McCall JW, Venco L, Sacchi L, Bazzocchi C, Casiraghi M, Kramer LH, Passeri B, Bandi C (2002). The *Wolbachia* endosymbionts of *Dirofilaria immitis*. Implications for pathology, immunology and control.
doi: 10.1016/j.vetpar.2004.05.008

2) In: “Heartworm infections in animals and humans”. Editors: Simon F, Genchi C, Ediciones Universidad de Salamanca, Spagna.
Chapter 12: Casiraghi M, Bazzocchi C, Sacchi L, Bandi C (2001). The *Wolbachia* endosymbionts of *Dirofilaria immitis.*
ISBN: 978-8478008612

1) In: “Heartworm infections in animals and humans”. Editors: Simon F, Genchi C, Ediciones Universidad de Salamanca, Spagna.
Chapter 1: Manfredi MT, Vieira C, Bandi C, Casiraghi M, Simon F (2001). Phylogeny, systematics and structural aspects.
ISBN: 978-8478008612

I hereby declare that all the information furnished in this document is free of errors to the best of my knowledge.
I take full responsibility for the correctness of the said information.

Milano, 15 May 2021

Maurizio Casiraghi