

PERSONAL INFORMATION

Paola Mattarelli



Date of birth

| Nationality

SCIENTIFIC ACTIVITY

ACADEMIC AGE: From 1993 (31 years)

PREVIOUS POSITIONS

- December 2021- present, **Associate Professor** at the University of Bologna, Department of Agricultural and Food Science, Laboratory of Microbiology.
- January 1995 – November 2021, **Researcher** at the University of Bologna, Department of Agricultural and Food Science, Laboratory of Microbiology.
- January 1993 – December 1993, **Laboratory Technician** at Institute of Agricultural Microbiology t the University of Bologna
- January 1992 - December 1992, **Research Fellowship** at University of Bologna, Institute of Agricultural Microbiology Grant: "Biological quality of food and marker for food quality".

EDUCATION

1988-1991 - PhD in Microbial Ecology at the Institute of Agricultural Microbiology, University of Bologna. Title of the thesis: "The genus *Bifidobacterium*: relationships between plasmids and cellular physiology in *Bifidobacterium globosum* – Description of three new *Bifidobacterium* species.

1980-1985 - Master's degree in Biological Sciences at the University of Bologna. Title of the thesis: "Plasmids in *Leuconostoc oenos*."

ADMINISTRATIVE ROLE AND POSITION RESPONSIBILITY

Responsible for the microbial collection, "Bologna University Scardovi Collection of Bifidobacteria" (BUSCOB), which comprises about 10000 strains of bifidobacteria and about 2000 strains belonging to lactic acid bacteria and representative of different species of agronomic and industrial interest. The collection is registered in European Culture Collection Organization (ECCO).

<https://site.unibo.it/buscob-microbial-collection/en>

TEACHING ACTIVITIES AND PHD SUPERVISION

2021-today. Teaching at Master of first level in " **Oli essenziali in fitoterapia e in formulazioni farmaceutiche e cosmetiche**" at Univerità Cattolica del sacro Cuore in Rome (<https://www.unicatt.it/master-oli-essenziali-in-fitoterapia-e-in-formulaz-farmac-e-cosm-faculty#sep>).

2017/2018-today base and advanced course of **Phytotherapy of Essential Oils** Università Cattolica di Roma (<https://roma.unicatt.it/2019-2020-fitoterapia-degli-oli-essenziali>) Università cattolica del Sacro Cuore (Rome)

2022/2023- today Precise and sustainable agriculture International Master Degree, Course in **Microbial Biotechnology for Sustainable Processes**, University of Bologna

2018-2019 - Teaching at Master in "**Veterinary Phytotherapy**" University of Bologna

2015/2016 – today - Design and management of agro-territorial, forest and landscape ecosystems Master Degree, course in **Application of Microbiology in the Environmental field**, University of Bologna

2020/2021 – today - Agricultural Sciences and Technologies Master Degree, course in **Microbiology of Plant Nutrition**, University of Bologna

2016/2017 – today - Biotechnology Degree, course in **Agro-environmental Biotechnology**, University of Bologna

PhD supervision: 8 PhD supervised, of which one industrial PhD and 5 PhD in cotutelle (agreements with Japan, Sweden and Belgium)

THESIS SUPERVISOR

Supervisor of **64 three-year degree thesis** in "Biotechnology" (School of Pharmacy, Biotechnology and Sport Science, University of Bologna, Bologna, Italy), "Agricultural Technology" (School Agriculture, University of Bologna, Bologna, Italy); supervisor of **21 second cycle degree thesis** in "Biology of Health", "Molecular and Industrial Biotechnology" (School of Pharmacy, Biotechnology and Sport Science, University of Bologna, Bologna, Italy), and "Planning and management of agro-territorial, forest and landscape", Agricultural Sciences and Technologies (School of Agriculture, University of Bologna, Bologna, Italy). Supervisor of 2 thesis of Master of first level.

OTHER WORK EXPERIENCE

International collaboration with:

- Institute of Genetic Researches (Mishima, Japan) for exchange PhD programs;
- Department of Microbiology and Biotechnology Max Rubner-Institut in Kiel, Germany (Prof. Charles Franz);
- School of Life Sciences, Handong Global University, Republic of Korea (Prof. Wilhelm Holzapfel);
- Department of Chemical and Biological Engineering/Food Science, Chalmers University of Technology, Gothenburg, Sweden (Prof. Thomas Andlid)
- Instituto de Tecnología de Alimentos - Facultad de Ingeniería Química – Universidad Nacional del Litoral (Argentina) (Dr. Sergio Rozicki)
- Yakult Europe, Ghent, Belgium (Prof. Bruno Pot);
- Bioresource Collection and Research Center, Food Industry Research and Development Institute, Hsinchu, Taiwan (Dr. Koichi Watanabe);

Consultancy for:

- Nestlé, Lausanne, Switzerland;
- ALFASIGMA, Bologna, Italy;
- Bioplanet, Cesena, Italy;
- Depofarma, Treviso, Italy;
- APA-CT, Forlì, Italy.
- Probionova, Lugano, Switzerland.

SCIENTIFIC ORGANISATIONS/COORDINATION OF ACADEMIC ACTIVITIES

2021-today. Member of Directive Committee of Master of first level in "**Oli essenziali in fitoterapia e in formulazioni farmaceutiche e cosmetiche**" at Università Cattolica del sacro Cuore in Rome (<https://www.unicatt.it/master-oli-essenziali-in-fitoterapia-e-in-formulaz-farmac-e-cosm-faculty#sep>).

2019- today. Scientific coordination of the advanced course of Phytotherapy of the Essential Oils (<https://roma.unicatt.it/2019-2020-fitoterapia-degli-oli-essenziali>) Università cattolica del Sacro Cuore (Rome)

2018 - Co-organizer of LABIP Workshop on the "**Proposed Major changes in the taxonomy of Bifidobacterium and Lactobacillus; consequences for industry**". Verona (Italy), 4-5 October 2018. <https://site.unibo.it/subcommittee-lactobacillus-bifidobacterium/en>

2018-today Responsible for PhD co-advisorship between Graduate University for Advanced Studies, SOKENDAI, Hayama, Kanagawa, Japan: Phd in Bioinformatics) and Bologna University (Bologna, Italy: PhD in "Agricultural, Environmental, Food Science and Technology") with one student incoming (Douaa Zakaria).

2016-2021 Responsible for PhD co-advisorship between Graduate University for Advanced Studies, SOKENDAI, Hayama, Kanagawa, Japan: Phd in Bioinformatics) and Bologna University (Bologna, Italy: PhD in "Agricultural, Environmental, Food Science and Technology") with one student incoming (Maria Altaf Satti). Thesis: "Comparative Analysis of Genus Bifidobacterium: Insight into its Host Adaptation".

2018- Organizer of the workshop "New insights in microbial ecology on Bifidobacterium and Lactobacillus studies." 30th November 2018. Department of Agricultural and Food Sciences, University of Bologna, Italy

2018 – Organizer of the workshop “Modern approaches of LAB identification and conservation.” 3rd September 2018, Food Micro 2018, Berlin (Germany)

2016 - Coordination of the research “Microbiota intestinale: dagli insetti ai mammiferi.” This project is in the framework of work stage (alternanza scuola lavoro) for students of third year high school. The project involved Liceo Messedaglia (Verona), Museo di Storia Naturale di Verona, Natura Viva Garda Zoological Park, Pastrengo, Verona (Italy)

2016 – Organizer of the workshop “Research and Networking Taxonomy in Food, with Emphasis on LAB” al FOOD MICRO 2016, Dublino (Irlanda)

2013 - 2016 Responsible for a PhD co-advishorship of one incoming student and one outcoming for 2013-2017 with Chalmers University of Goteborg (Sweden). Title of the thesis of outcoming student (Samanta Michelini): “Microbial Ecology of gut: polyphasic approach to select new probiotics for animal wellness”. Title of the thesis of incoming student (Linnea Qvirist): “Biofortification of fermented foods with selected yeasts for raised folate content and mineral availability.”

2015 – Responsible for Erasmus placement for Biotechnology students at Max Plank Institute (Freiburg, Germany)

2014 – Member of organizer Committee of the workshop “Lactobacillus and Bifidobacterium taxonomy: a navigator in bacterial diversity and applications” held in the framework of FOOD MICRO 2014, Nantes, Francia

2011-2012 Responsible for an Erasmus Mundus grant between Italy and Argentina (2011 - 2012)

EDITORIAL ACTIVITY

- Editor in chief of “THE BIFIDOBACTERIA AND RELATED ORGANISMS (Eds. P. Mattarelli, B. Biavati, W. Holzapfel, B.B. Wood). Academic Press, Elsevier. 2017
- Editorial board of International Journal Evolutionary Systematic Microbiology (from 2019-today) <https://www.microbiologyresearch.org/content/journal/ijsem?page=editorial-board>
- Editorial board of Systematic and applied microbiology (from 2022-today) <https://www.sciencedirect.com/journal/systematic-and-applied-microbiology/about/editorial-board>
- Editorial board of International Journal of Food Microbiology (From 2007 to 2016)
- Associate Editor for Marine and Freshwater fungi, a section of Frontiers in Fungi. <https://loop.frontiersin.org/people/55536/overview>
- Guest Editor of the Research Topic “Genetics and Genomics of Probiotic Organisms” in Genes (MDPI) 2020-2021. https://www.mdpi.com/journal/genes/special_issues/probiotic_organisms
- Review Editor for the Editorial Board of Microbial Symbioses, a section of “Frontiers in Microbiology” (from 2018-today) <https://loop.frontiersin.org/people/55536/overview>
- Review Editor for the Editorial Board of Food Microbiology, a section of “Frontiers in Microbiology” (from 2019-today) <https://loop.frontiersin.org/people/55536/overview>
- Review Editor in Frontiers in Marine and Freshwater Fungi (from 2019-today) <https://www.frontiersin.org/journals/fungal-biology/sections/marine-and-freshwater-fungi#editorial-board>

MEMBERSHIP OF SCIENTIFIC SOCIETIES AND SCIENTIFIC COMMITTEES

From 2022 - Member of the ICSP Subcommittees on Taxonomy for Chairs and Secretaries of the groups of the 16 subcommittees already present. The main topics of interest are challenges in Subcommittees, trends in different areas of taxonomic research, formation/reinvigoration/re-establishment of Subcommittees on Taxonomy, and the impact of SEQcode.

From 2018 - Secretary of International Committee on Systematics of Prokaryotes (ICSP) - Subcommittee on *Bifidobacterium*, *Lactobacillus* and related organisms <https://site.unibo.it/subcommittee-lactobacillus-bifidobacterium/en>

From 2015 - member of SFAM (Society for Applied Microbiology)

From 2013 - member of SIROE (Società Italiana Ricerca Oli Essenziali)

From 2005 - member of SIMTREA (Società Italiana di Microbiologia Agraria, Alimentare e Ambientale);

RESEARCH ACTIVITY AND FUNDING

The research activity was initially focused on the taxonomic study of bifidobacteria isolated from different habitats. The activity continued in the field of Microbiology, focusing on the following topics:

- functional characterisation of bacterial strains belonging to the group of bifidobacteria and lactic acid bacteria for human and animal probiotic applications;
- use of natural substances (essential oils and hydrolates) both for animal and human well-being, for applications in agriculture for protection against pathogenic bacteria and harmful insects, and for bioremediation of cultural heritage;

- antibiotic resistance in animal wastewater and the distribution of resistance genes in these matrices before and after treatment aimed at killing antibiotic resistance
- ecological distribution of beneficial bacteria and the study of the microbiota in both natural and man-made environments (agricultural, animal, and environmental)
- correlations between diet, beneficial bacteria, and gut microbiota in animals (in both controlled and natural environments) and humans.

PARTICIPATION TO EUROPEAN PROJECTS AND COST ACTION

2024- Erasmus plus Capacity building

2023- Member of COST action: Medicinal plants for animal health care: **"Translating tradition into modern veterinary medicine" (Acronym: MedPlants4Vet)**. Approved on 16th May 2023. The project deals with the application of natural substances into the veterinary medicine.

2023 - today Member of COST action: Open Call Collection OC-2022-1 Proposal Reference OC-2022-1-26089 **"Exploiting Plant-Microbiomes Networks and Synthetic Communities to improve Crops Fitness."** Approved on 16th May 2023

2023-2028. Collaborator at the Horizon - ERC-2021-COG [101045015] **"microTOUCH"**: Transmission of the human microbiome and its impact on health microTOUCH, PI prof. Nicola Segata.

2015 - 2018 – Progetto europeo LIFENET "HEALTH FOR WOMEN IN SENEGAL" -

2005-2008. Bilateral agreement between Italy and Slovenia. Ministero degli Affari Esteri, Direzione Generale per la Promozione e la Cooperazione Culturale e Comunità Europea (2005-2008)

2004-2007. Biotechnology and Public Health Transnational Network. Health Biotech <http://healthbiotech.org> (2004-2007). (BG/04/B/F/NT-166032, University of Bologna). European Leonardo da Vinci II programme (Objective "C", Priority 4, Measure Pilot Projects).

2005-2010. EU Project **PathogenCombat** (Control and prevention of emerging and future pathogens at cellular and molecular level throughout the food chain), FP6 project number FOOD-CT-2005-07081 (2005-2010).

2005-2007 EU Project: e-Reference Tools for VET Trainers in Food Industry (e-FOST) – BG/05/B/F/PP-166054 - Partner di un'unità di Progetto. <http://e-fost.org>

2004-2009. Quality Low Input Food: improving quality and safety and reduction cost in the European organic and "low input" food supply chains(EU FP6-supported IP-Contract no. 506358-2003). <http://www qlif.org>.

PARTICIPATION NATIONAL PROJECTS WITH FUNDING

2018 - 2021 - "Reflui suini e ambiente: abbattimento di antibiotici e antibiotico-resistenza nei reflui a tutela delle risorse idriche e del suolo (REFLUA)"- PSR Regione Lombardia (Programma Sviluppo Rurale 2014-2020) <https://site.unibo.it/reflua/it> (128000 €)

2018 - "Impiego del GELYD per lo sviluppo di un prototipo di garza pre-medicata ad azione antimicrobica per uso ospedaliero" Fondazione Cassa di Risparmio di Imola (10000 €)

2017 - "Analisi sperimentali comparative sull'utilizzo di idrolati ottenuti dalla distillazione di specie aromatiche (erbacce ed arboree), per la conservazione di Volumi cartacei custoditi nel Museo Diocesano di Imola" Fondazione Cassa di Risparmio di Imola (10000 €)

2016 - "Monarda citriodora: valutazione agronomico-culturale per l'introduzione nel Mercato Ornamentale, Orticolo ed Officinale - valutazione antimicrobica dell'olio essenziale e dell'idrolato finalizzata alla conservazione di un bene culturale cartaceo del XVI sec. custodito nel Museo Diocesano di Imola" Fondazione Cassa di Risparmio di Imola (5000 €)

2012-2014. "Valutazione agronomico-culturale e fitoterapica di differenti generi di monarda da utilizzare per scopi ornamentali e officinali in emilia romagna" Fondazione Cassa di Risparmio di Imola, Imola (Italy) (10000 €)

2005 - 2006 - Evaluation of antimicrobial activity of extracts of melia azedarach on yeasts of agro-food interest" - PRIN 2005 (MIUR prot. 2005072741)

1996 - 1997 - "Caratterizzazione biotecnologica e tassonomica di microrganismi di interesse agroindustriale e ambientale"- PRIN 1996 (MIUR)

2002 - 2004 - "Influence of environmental factors on microbial adhesion" - RICERCA Ex 60 % (Università di Bologna)

1999 – 2001 - "Antimicrobial activity in probiotic bifidobacterial" - RICERCA Ex 60 % (Università di Bologna)

1997 – 1998 - "Fatty acid analysis for the characterization of bifidobacterial strains" - RICERCA Ex 60 % (Università di Bologna)

1997 – 1998 - "Environmental factors influencing probiotic strain survival" - RICERCA Ex 60 % (Università di Bologna)

PATENTS

- Inventors: Di Vito M; Mattarelli P; Bugli F; De Togni H. Titolo: "Miscela di olii essenziali e/o idrolati da piante di origine italiana da applicare allo sviluppo di un nutraceutico per favorire l'equilibrio microbico e immunitario gastro-intestinale e genito-urinario". N° 102018000009540 (European Patent)

- Inventors: Di Vito M; Mattarelli P; Modesto M.; Bugli F.; Mondello F. Titolo: "Presidio medico per la cura di patologie cutanee e relativo metodo di realizzazione". N° 102019000002767 (Italian Patent)
<https://www.unibo.it/it/ricerca/imprese-e-ricerca/brevetti/2019/presidio-medico-per-la-cura-di-patologie-cutanee>

PARTICIPATION AS INVITED SPEAKER OR CHAIRMAN AT INTERNATIONAL AND NATIONAL CONGRESSES

2024 – Invited speaker – “**The Gut Microbiota: A Key Factor in Wildlife Well-being and Conservation**” Parco Natura Viva, Pastrengo Verona (Italy) 14° Convegno Nazionale della Ricerca nei Parchi. 18-20 October 2024 Parco Natura Viva, Pastrengo Verona (Italy)

2024 . Chairman of the section “**Food microbiota and impact on human microbiome**”. FoodMicro 2024, Burgos, 8-11 July 2024

2024 – Invited speaker – “**Disentangling the complex relationship between food microbiota and gut microbiome: an update**”. FoodMicro 2024, 8-11 July 2024

2024 – Invited speaker – “**Microbial taxonomy**” Training School on “Dissecting the Role of Phytobiota in Plant Health”(The 1st Training School of the MiCropBiomes COST Action) Verona 29-31 July 2024 <https://microbpiomes.eu/events/training-schools/training-school-1>

2024 – Invited speaker “**Gut microbiota and its pivotal role in the welfare of the animals**”. EAZA Animal Welfare Forum. Verona, Parco Natura Viva 19-22 March 2024. urly.it/310hz-

2023 - Invited speaker. “**Effect of essential oils on fish microbiome**”. Session: Fish microbiome: modulation and its advantages at Aquafarm 15-16 February 2023 , Pordenone, Italy.

2023 - Invited speaker. “**Disentangling the fecal microbiome of Seychelles giant tortoises (*Aldabrachelys gigantea*) living in both wild and controlled environments.**” at Computational Metagenomic Seminar at the Dipartimento di Biologia cellulare Computazionale e Integrata. University of Trento. 19 January 2023.

2022 - Chairman of the session “**Essential Oils in Veterinary Medicine**” at “Summer day on Essential oils: from plant defense to medical treatment” dedicated to young researchers. Istituto Superiore di Sanità, Rome 8 September 2022.

2022 - Invited speaker. “**DNA metabarcoding as non-invasive tool for conservation of Seychelles bat *Coleura seychellensis***”. XII Convegno Nazionale della ricerca nei Parchi. Parco Natura Viva. Bussolengo, Verona 7-9 October 2022

2021 - Presentation of “**Bologna University Scardovi Collection of Bifidobacteria (BUSCOB)**” at XXXIX° ECCO Virtual meeting 22-24 September 2021

2021- Invited speaker. **Improved procedure for the isolation of beneficial bacteria in wild habitat: *Lactiplantibacillus plantarum* from *Indri indri* in Madagascar.** XXXIX° ECCO Virtual meeting 22-24 September 2021

2019 - Invited speaker. “**Focus sui prebiotici dal presente al futuro**” at XIV Corso di aggiornamento X-FILES IN NUTRIZIONE CLINICA ED ARTIFICIALE Brainstorming fra scienza di base e clinica, Genova, 6-7 giugno 2019

2019 -Invited speaker. - “**Non-human primates Bifidobacteriaceae: a reservoir for application for animal well-being.**” atXXXVIII Annual Meeting of the European Culture Collections' Organisation - ECCO 2019; Turin 12-12 June

2019 - Invited speaker. “**Attività antimicrobica di oli essenziali singoli e in miscela verso salmonelle isolate da allevamenti avicoli e suinicoli e verso probiotici**” at Oli Essenziali, Piante Officinali, Ricerca Scientifica Ed Esperienze Di Campo In Ambito Avicolo, 51st Fiera Avicola - Salone internazionale avicolo - International Poultry Exhibition, Forlì, 27-29 marzo 2019

2019. Chairman of the session “**Oli Essenziali nel Settore Alimentare, in Medicina Veterinaria e Entomologia**” at the VI congresso nazionale SIROE, 18-19 October 2019, Bologna (Italy)

2019 - Invited speaker. **Antimicrobial activity of single and blended essential oils against probiotics and Salmonella isolated from farmed poultry and pig livestock.** at the Autumn meeting of PVGS EU (Poultry Veterinary Study Group) Acireale (Catania, Italy) on October 25, 2019

2019 - Invited speaker. “**Gastrointestinal microbiota of the Seychelles giant tortoises.** X Convegno Nazionale della ricerca nei Parchi.” Parco Natura Viva. Bussolengo, Verona 4-7 ottobre 2019

2019 - Invited speaker. “**Focus sui prebiotici dal presente al futuro**”. Congresso “X-files in nutrizione clinica ed artificiale Brainstorming fra scienza di base e clinica.” Genova, 6-7 June 2019.

2018 - Invited speaker. “**Isolation, cultivation and characterization of new bifidobacterial species**”. at LABIP, Workshop on the Proposed Major changes in the taxonomy of *Bifidobacterium* and *Lactobacillus*; consequences for industry. Verona (Italy), 4-5 October 2018. Titolo della comunicazione: Autori: Mattarelli P., Modesto M. (2018). In: p. 10-11

2018 - Invited speaker. “**Attività antimicrobica differenziale di alcuni oli essenziali sul microbiota benefico e potenzialmente patogeno di potamoceri**”. at Congresso SIROE, 19-20 ottobre 2018, Teramo.

2018 - Abstract selected for oral communication. “**Enumeration, isolation and identification of lactic acid bacteria from the Italian traditional fermented milk “Gioddu”**”. at Food Micro 2018 - 26th International ICFMH Conference, 3 - 6 September 2018, Berlin (Germany).

2018 - Abstract selected for oral communication. “**A first insight into gastrointestinal microbiota of the seychelles giant tortoises**”. at IX Convegno Nazionale della Ricerca nei Parchi - Conoscere per proteggere. 4-7 October 2018, Bussolengo

2018 - Abstract selected for oral communication. **A pilot study of the role of corn dextrin and milk peptides supplementation on faecal microbiota in healthy adults.** at Food Micro 2018 - 26th International ICFMH Conference, 3 - 6 September 2018, Berlin (Germany).

2017 - Invited speaker. “**Idrolato ed olio essenziale di Monarda fistulosa e Monarda didyma: evidenze per una potenziale applicazione come antimicrobici**”. Giornate formative SIROE: Il mondo degli oli essenziali” (Imola, Bologna, Italy; November 10, 2017).

2017 - Invited speaker. “**Protecting the giants: in situ and ex situ conservation of the Aldabra tortoises.**” Convegno Nazionale della Ricerca nei Parchi. (Pastrengo, Verona, Italy; September 28-October 2, 2017).

2017 - Invited speaker. "Insects as food: a challenge for future generations." Convegno Nazionale della Ricerca nei Parchi. (Pastrengo, Verona, Italy; September 28-October 2, 2017).

2017 - Relazione su invito "Nuove evidenze sull'interazione fra oli essenziali e microbiota intestinale". SIROE Giornate Formative: Gli oli essenziali : applicazioni nei settori agroalimentare, agronomico, delle produzioni animali e della medicina veterinaria" (AGRIPOLIS, Padova, Italy; September 15, 2017).

2017 - Chairman of the session: "Produzione degli oli essenziali e loro impiego in agronomia" a "SIROE Giornate Formative: Gli oli essenziali: applicazioni nei settori agroalimentare, agronomico, delle produzioni animali e della medicina veterinaria" (AGRIPOLIS, Padova, Italy; September 15, 2017).

2017 - Invited speaker. "Expanding our knowledge on bifidobacteria in primates" al Workshop "MICROBIOTA: a continuum from insects to primates" in: Microbiota: a continuum from insects to primates, 2017(atti di: Microbiota: a continuum from insects to primates, Bologna, 4 July 2017

2017 - Invited speaker. "Caratterizzazione di ceppi di lattobacilli nel latte fermentato Yaghnobi" at Workshop DALLO YOGURT AL DNA: nuove prospettive di ricerca interdisciplinare nello studio biomolecolare applicato alla società degli Yaghnobi" (Ravenna, Italy; May 1, 2017).

2016 - Invited speaker. "Cave and zoological park: comparison between mammal microbiota" at Convegno Nazionale della Ricerca nei Parchi. (Pastrengo, Verona, Italy; September 29-October 2, 2016).

2016 - Invited speaker. "Ricerche sull'attività antimicrobica degli oli essenziali e rapporti con il microbiota intestinale" Giornate formative SIROE: Gli Oli Essenziali in Medicina Veterinaria e Agronomia. Ozzano (Bologna) (08/06/2016)

2016 - Invited speaker. "Il laboratorio di microbiologia e le sue potenzialità in paesi non industrializzati." Progetto LIFENET " Health For Women in Senegal". Rotary Club di Piacenza. (8 February 2017)

2016 - Selected for oral communication. "Use of EPS producing Bifidobacterium aesculapii strains to improve texture and quality of soy milk based fermented milks". FOOD MICRO 2016 (Dublin, Ireland; July 19-22, 2016).

2016 - Invited speaker. "Characterization of Lactic Acid Bacteria from Tajikistan Fermented Goat Milk". FOOD MICRO 2016 (Dublin, Ireland; July 19-22, 2016).

2014 - Invited speaker. "Produzione di folato in bifidobatteri: produzione di 5-metyl-tetraidrofolato e tetraidrofolato in diversi periodi di crescita." SINUT – Rimini informa – Nutraceutici e alimenti funzionali in medicina preventiva: limiti e indicazioni . 2° Forum Nazionale. (Rimini, Italy, June 6-7, 2014).

2014 - Invited speaker. "Ricerche sull'attività antimicrobica di oli essenziali di lavandino" Convegno Lamiaceae: una "

2013 - Invited speaker. "Composizione ed attività antibatterica dell'olio essenziale di *Monarda didyma*". I Congresso Nazionale della Società Italiana per la Ricerca sugli Oli Essenziali (SIROE) in Rome (15-17 November 2013).

2013 - Selected for oral communication "Folate production in bifidobacteria from infant and adult humans". United European Gastroenterology week (UEG) (Berlin, Germany, October 12-16, 2013)

RELEVANT CONTRIBUTES FOR SCIENTIFIC DIFFUSION (Third Mission)

Unibo Magazine 23 Gennaio 2024 Una nuova specie di batteri benefici scoperta nell'intestino dei neonati

<https://magazine.unibo.it/archivio/2024/01/23/una-nuova-specie-di-batteri-benefici-scoperta-nellintestino-dei-neonati#:~:text=iuvenis%3A%20C3%A8%20una%20nuova%20specie,garantire%20la%20salute%20dei%20bambini.>

UNIBO MAGAZINE 5 May 2023: "Sono nati 17 piccoli di tartaruga gigante alle Seychelles: l'Alma Mater in campo per il loro monitoraggio

<https://magazine.unibo.it/archivio/2023/05/05/sono-nati-17-piccoli-di-tartaruga-gigante-alle-seychelles-l2019alma-mater-in-campo-per-il-loro-monitoraggio>

UNIBO MAGAZINE January 2023: "A new group of beneficial bacteria discovered in the gut of children during weaning" a-new-group-of-beneficial-bacteria-discovered-in-the-gut-of-children-during-weaning. <https://magazine.unibo.it/archivio/2023/01/09/a-new-group-of-beneficial-bacteria-discovered-in-the-gut-of-children-during-weaning>

MEMBER OF SCIENTIFIC COMMITTEE OF INTERNATIONAL CONGRESS

2024 - Member of Scientific Committee of FOODMICRO 2024 (<https://foodmicro2024.com/committees.php>)

REFeree FOR THE FOLLOWING INTERNATIONAL SCIENTIFIC JOURNALS

FEMS Microbial Ecology (Wiley) International Journal of Systematic and Evolutionary Microbiology (Society for General Microbiology); International Journal of Food Microbiology (Elsevier); Systematic and Applied Microbiology (Elsevier); Journal of Applied Microbiology (Society for Applied Microbiology); Annals of Microbiology (Springer) Microbiology (Society for General Microbiology); Research in Microbiology (Elsevier) Scientific Reports Nature; International Journal of Molecular Sciences (MDPI Publishing, Basel, Switzerland); Animal: An International Journal of Animal Bioscience, (Cambridge Journals); The Open Conference Proceedings Journal (Bentham); Probiotics and Antimicrobial Proteins (Springer); Genes (MDPI); Colloids and Interfaces (MDPI) (see web site <https://orcid.org/my-orcid?orcid=0000-0001-9112-4786>)

BIBLIOMETRIC DATA (at 26 October 2024)

H-Index (in Scopus): 25

Total number of citations (Scopus): 4350

Total number of paper (Scopus): 99

PUBLICATIONS

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PRESENTAZIONI E POSTER A CONGRESSI NAZIONALI E INTERNAZIONALI

2025- Caneschi A.1, Fischetti L.2, Scarafile D.3, Modesto M., Scozzoli M.1, Piva S.2, Mattarelli P.3, Mariella J.2 Evaluation of the antibacterial activity of essential oils against equine reproductive diseases causing pathogens. 30° Congress SIVE, 7-8 February Bologna

2024 - Sandri C., Borruso L., Mimmo T., Modesto M., Scarafile D., Francati S., Mattarelli P., Joubert F., Ashley D., Dindo ML., Spiezio C. Non-Invasive Tool to support Conservation: DNA Metabarcoding of Seychelles Bat *Coleura seychellensis*. 14° Convegno Nazionale della Ricerca nei Parchi. 18-20 October 2024 Parco

2024 – Mattarelli P. (invited speaker) The Gut Microbiota: A Key Factor in Wildlife Well-being and Conservation Natura Viva, Pastrengo Verona (Italy) 14° Convegno Nazionale della Ricerca nei Parchi. 18-20 October 2024 Parco Natura Viva, Pastrengo Verona (Italy)

2024-BUSCAROLI E., BLASIOLI S., Giampaolo DI BIASE, Monica Marianna MODESTO, Paola MATTARELLI, Luciano CAVANI, Ilaria BRASCHI. Abatement of antibiotics, resistant bacteria, and unpleasant odour in swine manure of preserved plant nutritional properties | Project REFLUA. XLII SICA Congress · Alghero (SS) • 9-11 September 2024

2024-Paolo Manghi, Claudia Mengoni, Federica Pinto, Federica Armanini, Aitor Blanco Miguez, Michal Puncochar, Douaa Zakaria, Mireia Valles-Colomer, Gianmarco Piccinno, Francesco Asnicar, Masanori Arita, Paola Mattarelli, Camillo Sandri, 2024-Caterina Spiezio, Nicola Segata. Unexplored microbiome diversity of the seychelles giant tortoise *Aldabrachelys gigantea*. ISME19. Cape Town, South Africa 18 - 23 August 2024

2024-Sandri C.1, Borruso L.2, Mimmo T.2, Modesto M.3, Scarafile D.3, Francati S.3, Mattarelli P.3, Joubert F.4, Ashley Dias5, Dindo ML. 3, Spiezio C.1 (oral communication) Using DNA Metabarcoding as a Non-Invasive Tool for the Conservation of the Critically Endangering Seychelles Bat *Coleura seychellensis*. ECCO 2024 Bari 18-20 September 2024

2024-Scarafile D., Coggiatti D., De Cinti A., Di Mercuri M., Bugli F., Sanguinetti M., Mattarelli P., Di Vito M., Modesto M. Yogurt and essential oils: the best of two words? IUMS 2024 Florence 23-25 October 2024

2024-Mattarelli P. Chairman of the session FOOD MICROBIOTA AND IMPACT ON HUMAN MICROBIOME-

2024- Mattarelli P. (oral communication, invited speaker) DISENTANGLING THE COMPLEX RELATIONSHIP BETWEEN FOOD MICROBIOTA AND GUT MICROBIOME: AN UPDATE. FOODMICRO 2024, Burgos, 8-11 July 2024

2024- Qvirist L., Donatella Scarafile², Patrignani Francesca², Modesto Monica², Lanciotti Rosalba², Andlid Thomas³, [Mattarelli Paola²](#) Lactobacilli and Yeasts for phytate degradation in soy milk fermented products. FOODMICRO 2024, Burgos, 8-11 July 2024

2024-Qvirist L, Donatella Scarafile², Patrignani Francesca², Modesto Monica², Lanciotti Rosalba², Andlid Thomas³, [Mattarelli Paola](#) Lactobacilli and Yeasts for phytate degradation in soy milk fermented products. FoodMicro 2024, Burgos, 8-11 July 2024

2024-Alice Caneschi, Donatella Scarafile, Anna Zaghini, Paola Mattarelli, Maurizio Scozzoli. Antibacterial activity of essential oils against streptococci and staphylococci causing bovine mastitis. International Congress of Natural Products research. Krakow 13-17 July, 2024

2024-Enrico Buscaroli, Monica Modesto¹, Diana Luise¹, Sonia Blasioli¹, Donatella Scarafile¹, Maura Di Vito², Francesca Bugli^{2,3}, Paolo Trevisi¹, Ilaria Braschi¹, Paola Mattarelli¹, Alice Checcucci⁴ The swine waste Resistome: spreading and transfer of antibiotic resistance genes in *Escherichia coli* strains and the associated microbial communities. V Convegno AISSA#40. Firenze 26-27 giugno 2024

2023-M. Di Mercurio¹;F. Bugli;¹M. Sanguinetti;¹D. Scarafile;¹M. Modesto;¹G. Bignami;¹M. L. Fioravanti;¹S. Benvenuti;¹M. Scozzoli;¹P. Mattarelli;¹M. Di Vito AN IMPROVED PROTOCOL FOR TESTING ESSENTIAL OIL ACTIVITY ON FISH PATHOGEN BIOFILM. Aquaculture Europe 2023 18-21 September 2023 Vienna

2023-Rizzo S., Di Vito M., Mattarelli P., Micheli L., Mazzuca C., Rosato R., Sanguinetti M., Napoli E., Bugli F. (2023) Beneficial effects of enriched polyphenol culture of *Lactobacillus helveticus* on the intestinal *Candida albicans* growth. FEMS2023. 9-13 July Hamburg, Germany

2023-Scarafile D., Modesto M., Di Vito M., Bugli F., Di Mercurio M., Sanguinetti M., Scozzoli M., Mattarelli P. (2023) Sostanze naturali per il controllo della pasterellosi nel coniglio. VII Congresso Internazionale SIVAE Rimini, 26-28 maggio 2023

2024-Di Mercurio M, Bugli F., Sanguinetti M., Modesto M., Bignami G., Fioravanti ML, Scozzoli M., Mattarelli P., Di Vito M., Mattarelli P. (2023) (Invited speaker) Effect of essential oils on fish microbiome. Session: Fish microbiome: modulation and its advantages. 15-16 February 2023 Aquafarm, Pordenone, Italy

2023-Di Mercurio M., Bugli F., Sanguinetti M., Benvenuti S., Modesto M., Bignami G., Fioravanti ML, Scozzoli M., Mattarelli P., Di Vito M. (2023) Use of essential oils in the fight against antibiotic resistance from aquaculture. ICOH 2023: 17. International Conference on One Health. May 15-16, 2023 London, United Kingdom

2023-Mattia Di Mercurio^{1,2}, Francesca Bugli^{1,2}, Maurizio Sanguinetti^{1,2}, Stefania Benvenuti³, Monica Modesto⁴, Giorgia Bignami⁵, Maria Letizia Fioravanti⁵, Maurizio Scozzoli⁶, Paola Mattarelli⁴, Maura Di Vito¹ USE OF ESSENTIAL OILS IN THE FIGHT AGAINST ANTIBIOTIC RESISTANCE FROM AQUACULTURES. International Conference of Onehealth Antimicrobial Resistance ICOHAR Copenhagen, DK 18-20 April 2023

2022-Spiezio C., Borruso L., Mimmo T., Modesto M., Scarafile D., Mattarelli P., Selby R., Joubert F., Muzunguile M.M., Sandri C. (2022) DNA metabarcoding as non-invasive tool for conservation of Seychelles bat *Coleura seychellensis*. XII Convegno Nazionale della ricerca nei Parchi. Parco Natura Viva. Bussolengo, Verona 7-9 ottobre 2022

2022- Mattarelli P. Chairman of the session "Essential Oils in Veterinary Medicine" at "Summer day on Essential oils: from plant defense to medical treatment" dedicated to young researchers. (2022) Istituto Superiore di Sanità, Rome 8 September 2022.

Modesto Monica, Donatella Scarafile, Gautam Gaur, Nanzhen Qiao, Felicitas Pswarayi, Luigi Maria Borruso, Camillo Sandri, Caterina Spiezio, Cristina Giacomini, Paola Mattarelli, Michael Ganzle. (2022) Are probiotics in wild habitat? *Lactiplantibacillus plantarum* from Indri indri in Madagascar. XII Convegno Nazionale della ricerca nei Parchi. Parco Natura Viva. Bussolengo, Verona 7-9 ottobre 2022

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