

Data di nascita
Cittadinanza
Sesso

Carlotta De Filippo, PhD

09.09.1968
Italiana
Femminile

PERSONAL INFORMATION



 Istituto di Biologia e Biotechnologie Agrarie (IBBA), Consiglio Nazionale delle Ricerche (CNR)
Via Moruzzi 1, 56124 Pisa (Italia)
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<http://orcid.org/0000-0002-2222-6524>

Sex Female | Date of birth 09/09/1968 | Nationality Italian

Enterprise

- ☐ Management Level
☐ Mid-Management Level
☐ Employee / worker level

University

- ☐ Full professor
☐ Associate Professor
☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

EPR

- ☒ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
☐ Level III Researcher and Technologist
☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

from 02.03.2020-present

First Researcher (Primo Ricercatore)

Agricultural Biology and Biotechnology (IBBA) Pisa, National Research Council (CNR)
Senior Researcher, Group Leader
Food and Nutrition Area

from 30.12.2016 to 01.03.2020

Researcher (Level III) at the Institute of Agricultural Biology and Biotechnology (IBBA) Pisa, National Research Council

from 15.09.2015 to 29.12.2016

Senior Research Fellow at the Institute of Biometereology (Florence), National Research Council

from 1.12.2011 to 14.09.2015

Researcher at the Department of Food Quality and Nutrition, Edmund Mach Foundation
San Michele all'Adige (TN)

from 1.11.2006 to 30.11.2011

Research fellow (RTD Moratti Law no. 230/2005) at the Department of Preclinical and Clinical Pharmacology "M. Aiazzi Mancini", University of Florence,

from 08/2002 to 09/2003

Visiting Scientist at Bauer Center for Genomics Research, HARVARD University
(Cambridge, MA, USA) supervisor Prof. Andrew Murray.

from 1.11.2002 to 31.10.2006
from 1.04.1995 to 31.10.1998

Research fellow at the Department of Preclinical and Clinical Pharmacology "M. Aiazzi Mancini"
University of Florence

EDUCATION TRAINING and ACADEMIC TITLES

13.09.2018

National scientific qualification as an Associate Professor (Seconda Fascia) in the SECTOR 05/I2 MICROBIOLOGY.

03.02.2003

Title of Doctorate in Pharmacology and Toxicology (XIV cycle) awarded by the University of Florence with a thesis titled "DNA microarrays as a tool for studying cell response to stress, drugs, and toxic substances". Supervisors: Prof. Piero Dolara, Prof. Lucilla Zilletti.

15.04.1997

Qualification for the Profession of Biologist, obtained on 15/04/1997 with a score of 150/150 awarded by the University of Florence.

from 1.11.1999
to 29.09.2000

Visiting PhD student at the "Department of Cancer Cell Biology", HARVARD School of Public Health, Boston MA (USA), Supervisor Prof. Leona Samson

PERSONAL SKILLS

Mother tongue Italian
Other languages English (C1), French (C1)

Job-related skills

Dr. De Filippo has experience in human nutritional studies, in human toxicological studies applying functional genomics, nutrigenomics and metagenomics. She has experience in Next Generation Sequencing technologies (Pyrosequencing, Illumina High Seq, MiSeq). Database's consulting (Genomics, Nutrigenomics, Metagenomics, Toxicogenomics). C. De Filippo has also experienced in animal cancerogenesis models for different dietary regimens.

Research interests

De Filippo's research interests integrated multidisciplinary competences, including functional genomics and toxicology, to the study of the molecular determinants of dietary modulation of gut inflammation and cancer. C. De Filippo applied meta-genomics techniques (Next Generation Sequencing) and metabolomics to the characterization of the intestinal microbiota, studying the interaction between intestinal mucosa, immune system, and microorganisms, unravelling the joint role of diet and microorganisms for the intestinal liberation of metabolites, as short chain fatty acids, bioactive molecules that are important for human health.

De Filippo's research lines focus on:

Exploring Diet and Microbiota in Diverse Populations: Investigating the role of diet in shaping gut microbiota composition across various populations, including rural and non-urbanized communities. I aim to compare traditional dietary patterns with Western ones to understand their impact on human health. Additionally, I am interested in studying fermented foods' potential role in promoting balanced and sustainable diets, supporting microbiota health, and preventing diet-related diseases.

Microbiota-Disease Relationship: Delving into the complex interactions between microbiota and neurological, metabolic, and inflammatory disorders. The aim is to identify specific microbial compositions associated with diseases and develop therapeutic strategies, particularly through targeted dietary interventions incorporating high-impact pre- and probiotic foods.

Sustainable Nutrition: Assessing the environmental impact of dietary choices and climate change, focusing on sustainable dietary practices benefiting both human health and ecosystems. Specifically, I'm interested in utilizing dairy by-products for protein-rich foods to support vulnerable populations, such as the elderly, while reducing waste.

Dietary and Probiotic Interventions: Investigating the effects of targeted dietary interventions and probiotics on microbiota health and the prevention or treatment of microbiota-related diseases. This includes studying the effects of traditional fermented foods as supplements of beneficial microbial communities.

Effects of Innovative Diets: Examining the effects of innovative diets, such as plant-based or alternative diets, on microbiota composition and human health, considering nutritional and digestive aspects. I focus on how a pescatarian diet could prevent or treat microbiota-related diseases through inflammation reduction, increased antioxidant intake, and higher consumption of fibers and prebiotics.

Food Risk Assessment: Contributing to food risk assessments, including food safety evaluations and public health impact assessments, in collaboration with national and international organizations like EFSA, leveraging expertise as a CNR expert evaluator.

Professional affiliations & membership

From March 2023	De Filippo C. has been appointed as Focal Point of MoU IRI – FAO - Area of collaboration Food Quality and Nutrition
From March 2022	De Filippo C is member of Steering Committee of the Italian Society for General Microbiology and Microbial Biotechnology (SIMBGM www.simgbm.it) - https://www.simgbm.it/curriculum-vitae-comitato-direttivo/284-carlotta-de-filippo.html
From Sept. 2021	De Filippo C has been appointed evaluator for ANVUR VQR 2015-2019. De Filippo C has been appointed "Expert evaluator" of the European Food Safety Authority (EFSA)
From July 2021	De Filippo C is part of the FAO Working Group "Microbiome: the missing link? science and innovation for health, climate and sustainable food systems".
From June 2020	De Filippo C is Evaluator for the MISE "FINANCIAL BENEFITS FROM THE FUND FOR SUSTAINABLE GROWTH (F.C.S.) Agrifood Desk Sector DM 5/3/2018.
From 2016	De Filippo C is Evaluator for "Agence Nationale pour la Recherche" (ANR , France), Generic Call for Proposals, Work Program 2017 (WP2017). De Filippo C was Research project evaluator for the NIH Call: DELAWARE INBRE DRPP PILOT PROPOSAL REVIEW 2016.

Editorial activity

From November 2020

Guest Editor of: **Scientific Reports** (Nature) Guest Edited Collections "Human microbiome":
<https://www.nature.com/srep/guestedited#human-microbiome>

Editorial Board Member of **Scientific Report** (Nature Publishing Group) MICROBIOLOGY Section

From 2016

Associate Editor of the journal **Frontiers in Nutrition**, Section "Nutrition and Microbes"

From 2019

Editor of **Frontiers in Microbiology**, "Symbiosis" Section

From 2018

Reviewer of **Molecular Ecology**, **mSystem**, **PlosOne**, **BMC Microbiology**, **Gut**, **Genes and Nutrition**, **Journal of Food Sciences and Nutrition**.

Digital skills

Bioinformatics analysis (genomics, nutrigenomics and metagenomics data, pipeline/software: MICCA, Phylorielief, LEfSe), Taxonomic classification for prokaryotes and fungi (RDP classifier, GreneGene, UNITE databases), analysis of metabolic and cell signaling "pathways" (softwares: PiCRUST, Pathway processor, EuGene, GeneMapp)

Grant (2023- 2012)

▪ **European Project PRIMA** call 2022, PRIMA Research and Innovation Actions (RIA) & Innovation Actions (IA), Project title "From Edible sprouts to hEalthy food" (FEED) Role Coordinator

▪ **PNRR - PE10 - ONFOODS** "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" – Spoke 6 Malnutrition – Role: CNR referent

▪ **Research Project @CNR** (Resolution 197/2021 of 21/12/2021), Area "Technologies to support more fragile groups: young and old "Project title" Gut Microbiota as a bioremediator for gut-health in infants (MIGHT), Role Coordinator

▪ **European Project EIT Food** Call 2020-2021 (H2020). Project title "Minimally modified AMino Microbiota heALth" (MAMMAL) Project code 21256. Role Coordinator

▪ **European Project ERA-NET, HDHL-INTIMIC** cofounded call, Interrelation of the Intestinal Microbiome, Diet and Health 2017. Project title: "Faecal microbiome as determinant of the effect of diet on colorectal cancer risk: comparison of meat based versus pesco-vegetarian diets", Acronym MEATIC. Role Coordinator

▪ **European project ERA-NET, JPI HDHL-INTIMIC 2018-2022**, Project title: KEPT - Knowledge Platform on food, diet, intestinal microbiomes, and human health. Role Partner

▪ **FOE CNR 2020 projects:** NutrAge "Nutrition, Nutrition & Active Aging". Role Partner, Coordinator WP4 Task 4.1

▪ **Ricerca finalizzata e Giovani Ricercatori bando 2011-2012 Ministero della Sanità**, Project: "Role of regulatory cells and cytokines in the extent of colonic involvement in patients with ulcerative colitis: implications for patient-oriented therapy". (Project code RF-2011-02350689) Financing Agency: Italian Ministry of Health (Period: 04.11.2014-03.11.2017). Role Partner

▪ **FISM 2013 Call**, Project "Role of MAIT cells in multiple sclerosis: how the gut flora influences autoimmune responses" (FISM Code 2013 /R /2; Rome n. 16 -049), Funding Agency: Italian Multiple Sclerosis Foundation. Role Partner

▪ **FIRST 2012 call**, Funding Fondazione E. Mach, PRIMAGUT "Stress and gut microbiota: unlocking the mammalian gut-brain axis". (Period 01.01.2012-31.12.2015). Role Coordinator

ADDITIONAL INFORMATION

Publication De Filippo is author of 91 peer reviewed full papers on international journals, 7 book chapters and 53 Conference Abstract / Proceedings, and 2 Publications on national journals.

Metrics

N. of Citations:

- **Google Scholars = 13,246**
- **Scopus = 8,760**
- **ISI WEB of Science = 7,970**

H-index: 41 (Google Scholars).

H-index: 34 (Scopus ID 55964602400).

H-index: 32 (ISI Web of Science ResearcherID: AAE-4683-2021)

LIST OF PUBLICATIONS (peer reviewed)

1. **De Filippo C**, Chioccioli S, Meriggi N, Troise AD, Vitali F, Mejia Monroy M, Özsezen S, Tortora K, Balvay A, Maudet C, Naud N, Fouché E, Buisson C, Dupuy J, Bézirard V, Chevolleau S, Tondereau V, Theodorou V, Maslo C, Aubry P, Etienne C, Giovannelli L, Longo V, Scaloni A, Cavalieri D, Bouwman J, Pierre F, Gérard P, Guéraud F, Caderni G. Gut microbiota drives colon cancer risk associated with diet: a comparative analysis of meat-based and pesco-vegetarian diets. *Microbiome*. 2024 Sep 27;12(1):180. doi: 10.1186/s40168-024-01900-2. PMID: 39334498; PMCID: PMC11438057 (IF 13.8).
2. Lindert J, Day H, de Andres Crespo M, Amerstorfer E, Alexander S, Backes M, **De Filippo C**, Golebiewski A, Midrio P, Mohideen M, Modrzyk A, Lemli A, Rassouli- Kirchmeier R, Pfaff-Jongman M, Staszkievicz K, Telborn L, Stenström P, Holström K, Kohl M, Curry J, Loukogeorgakis S, Davidson JR. Influence of Diet on Bowel Function and Abdominal Symptoms in Children and Adolescents with Hirschsprung Disease-A Multinational Patient-Reported Outcome Survey. *Children* (Basel). 2024 Sep 12;11(9):1118. doi: 10.3390/children11091118. PMID: 39334650; PMCID: PMC11429589. (IF 2)
3. Arena S, De Pascale S, Ciaravolo V, Monroy MM, Gouw JW, Stahl B, Bäuerl C, Collado MC, **De Filippo C**, Scaloni A, Troise AD. Protein-bound and free glycation compounds in human milk: A comparative study with minimally processed infant formula and pasteurized bovine milk. *Food Chem*. 2024 Sep 12;463(Pt 2):141265. doi: 10.1016/j.foodchem.2024.141265. Epub ahead of print. (IF 8.5)
4. Chioccioli S, Rocchetti G, Ruzzolini J, Urciuoli S, Vitali F, Bartolucci G, Pallecchi M, Caderni G, **De Filippo C**, Nediani C, Lucini L. Changes in Faecal Microbiota Profile and Plasma Biomarkers following the Administration of an Antioxidant Oleuropein-Rich Leaf Extract in a Rat Model Mimicking Colorectal Cancer. *Antioxidants* (Basel). 2024 Jun 14;13(6):724. doi: 10.3390/antiox13060724. PMID: 38929163; PMCID: PMC11200411. (IF 6.0)
5. Viti, F., De Giorgio, R., Ceccherini, I., Ahluwalia, A., Alves, M. M., Baldo, C., Baldussi, G., Bonora, E., Borrelli, O., Dall'Oglio, L., De Coppi, P., **De Filippo, C.**, de Santa Barbara, P., Diamanti, A., Di Lorenzo, C., Di Maulo, R., Galeone, A., Gandullia, P., Hashmi, S. K., Lacaille, F., ... Heuckeroth, R. O. (2023). Multi-disciplinary Insights from the First European Forum on Visceral Myopathy 2023 Meeting. *Digestive diseases and sciences*, 68(10), 3857–3871. (IF 3.487)
6. Castellini, G., Cassioli, E., Vitali, F., Rossi, E., Dani, C., Melani, G., Flaccomio, D., D'Andria, M., Mejia Monroy, M., Galli, A., Cavalieri, D., Ricca, V., Bartolucci, G. L., and **De Filippo, C.** Gut microbiota metabolites mediate the interplay between childhood maltreatment and psychopathology in patients with eating disorders. *Sci Rep* 13, 11753 (2023). (IF 4.996)
7. Pasinetti GM, Turrone S, Palmieri J, **De Filippo C**. Human microbiome collection. *Sci Rep*. 2023 Mar 8;13(1):3807. doi: 10.1038/s41598-023-30625-9. (IF 4.996)
8. **De Filippo C**, Costa A, Becagli MV, Monroy MM, Provensi G and Passani MB (2023) Gut microbiota and oleoylethanolamide in the regulation of intestinal homeostasis. *Front. Endocrinol*. 14:1135157. doi: 10.3389/fendo.2023.1135157 (IF 6.055)
9. Gargano F, Guerrera G, Piras E, Serafini B, Di Paola M, Rizzetto L, Buscarinu MC, Annibali V, Vuotto C, De Bardi M, D'Orso S, Ruggieri S, Gasperini C, Pavarini L, Ristori G, Picozza M, Rosicarelli B, Ballerini C, Mechelli R, Vitali F, Cavalieri D, Salvetti M, Angelini DF, Borsellino G, **De Filippo C**, Battistini L. Proinflammatory mucosal-associated invariant CD8+ T cells react to gut flora yeasts and infiltrate multiple sclerosis brain. *Front Immunol*. 2022 Jul 28; 13:890298. (IF 8.786)
10. Sharon I, Quijada NM, Pasolli E, Fabbri M, Vitali F, Agamennone V, Dötsch A, Selberherr E, Grau JH, Meixner M, Liere K, Ercolini D, **de Filippo C**, Caderni G, Brigidi P, Turrone S. The Core Human Microbiome: Does It Exist and How Can We Find It? A Critical Review of the Concept. *Nutrients*. 2022 Jul 13;14(14):2872. (IF 6.706)
11. Vitali F, Zinno P, Schifano E, Gori A, Costa A, **De Filippo C**, Koroušić Seljak B, Panov P, Devirgiliis C, Cavalieri D. Semantics of Dairy Fermented Foods: A Microbiologist's Perspective. *Foods*. 2022 Jun 29;11(13):1939. (IF 5.561)
12. Vitali F, Tortora K, Di Paola M, Bartolucci G, Menicatti M, **De Filippo C**, Caderni G. Intestinal microbiota profiles in a genetic model of colon tumorigenesis correlates with colon cancer biomarkers. *Sci Rep*. 2022 Jan 26;12(1):1432. (IF 4.996)
13. Rodríguez-González A, Vitali F, Moya M, **De Filippo C**, Passani MB, Orio L. Effects of Alcohol Binge Drinking and Oleoylethanolamide Pretreatment in the Gut Microbiota. *Front Cell Infect Microbiol*. 2021 Nov 23; 11:731910. doi: 10.3389/fcimb.2021.731910. (IF 6.073)
14. Pinart M, Nimptsch K, Forslund SK, Schlicht K, Gueimonde M, Brigidi P, Turrone S, Ahrens W, Hebestreit A, Wolters M, Dötsch A, Nöthlings U, Oluwagbemigun K, Cuadrat RRC, Schulze MB, Standl M, Schlöter M, De Angelis M, Iozzo P, Guzzardi MA, Vlaemyck G, Penders J, Jonkers DMAE, Stemmer M, Chiesa G, Cavalieri D, **De Filippo C**, Ercolini D, De Filippis F, Ribet D, Achamrah N, Tavolacci MP, Déchelotte P, Bouwman J, Laudes M, Pischon T. Identification and Characterization of Human Observational Studies in Nutritional Epidemiology on Gut Microbiomics for Joint Data Analysis. *Nutrients*. 2021 Sep

21;13(9):3292. (IF 6.706)

15. Vitali F, Colucci R, Di Paola M, Pindo M, **De Filippo C**, Moretti S, Cavalieri D. Early melanoma invasivity correlates with gut fungal and bacterial profiles. *Br J Dermatol*. 2021 Jul 6. (IF 11.113)
16. Sciaivilla P, Strati F, Di Paola M, Modesto M, Vitali F, Cavalieri D, Prati GM, Di Vito M, Aragona G, **De Filippo C**, Mattarelli P. Gut microbiota profiles and characterization of cultivable fungal isolates in IBS patients. *Appl Microbiol Biotechnol*. 2021 Apr;105(8):3277-3288. (IF 5.56)
17. Faddetta T, Abbate L, Alibrandi P, Arancio W, Siino D, Strati F, **De Filippo C**, Fatta Del Bosco S, Carimi F, Puglia AM, Cardinale M, Gallo G, Mercati F. The endophytic microbiota of Citrus limon is transmitted from seed to shoot highlighting differences of bacterial and fungal community structures. *Sci Rep*. 2021 Mar 29;11(1):7078. (IF 4.996)
18. Faddetta T, Ardizzone F, Faillaci F, Reina C, Palazzotto E, Strati F, **De Filippo C**, Spinelli G, Puglia AM, Gallo G, Cavalieri V. Composition and geographic variation of the bacterial microbiota associated with the coelomic fluid of the sea urchin *Paracentrotus lividus*. *Sci Rep*. 2020 Dec 8;10(1):21443. (IF 4.996)
19. Levi M, Miglietta A, Romeo G, Bartolacci S, Ariani F, Cipriani F, **De Filippo C**, Cavalieri D, Balzi D. Letter in response to article in Journal of Infection: Impact of Routine Infant BCG Vaccination on COVID-19. *J Infect*. 2020 Nov 25: S0163-4453(20)30718-0. doi: 10.1016/j.jinf.2020.11.022. Epub ahead of print. (IF 38.637)
20. Di Paola M, Seravalli V, Paccosi S, Linari C, Parenti A, **De Filippo C**, Tanturli M, Vitali F, Torcia MG, Di Tommaso M. Identification of Vaginal Microbial Communities Associated with Extreme Cervical Shortening in Pregnant Women. *J Clin Med*. 2020 Nov 10;9(11):3621. doi: 10.3390/jcm9113621. (IF 4.964)
21. Tortora K, Vitali F, **De Filippo C**, Caderni G, Giovannelli L. DNA damage in colon mucosa of Pirc rats, an Apc-driven model of colon tumorigenesis. *Toxicol. Lett*. 2020 Feb 6; pii: S0378-4274(20)30037-0 (IF 4.271)
22. Di Paola M, Rizzetto L, Stefanini I, Vitali F, Massi-Benedetti C, Tocci N, Romani L, Ramazzotti M, Lionetti P, **De Filippo C**, Cavalieri D. Comparative immunophenotyping of *Saccharomyces cerevisiae* and *Candida* spp. strains from Crohn's disease patients and their interactions with the gut microbiome. *Journal of Translational Autoimmunity*, 2020; Vol 3:100036.
23. Sofi F, Dinu M, Pagliai G, Pierre F, Gueraud F, Bowman J, Gerard P, Longo V, Giovannelli L, Caderni G, **De Filippo C**. Fecal microbiome as determinant of the effect of diet on colorectal cancer risk: comparison of meat-based versus pesco-vegetarian diets (the MeaTlc study). *Trials*. 2019;20(1):688. Published 2019 Dec 9. doi:10.1186/s13063-019-3801-x. (IF 2.728)
24. Quagliariello A, Di Paola M, De Fanti S, Gneccchi-Ruscone GA, Martinez-Priego L, Pérez-Villaroya D, Sherpa MG, Sherpa PT, Marinelli G, Natali L, Di Marcello M, Peluzzi D, Di Cosimo P, D'Auria G, Pettener D, Sazzini M, Luiselli D, **De Filippo C**. Gut microbiota composition in Himalayan and Andean populations and its relationship with diet, lifestyle and adaptation to the high-altitude environment. *J Anthropol Sci*. 2019 Dec 31;96:189-208. doi: 10.4436/JASS.97007. Epub 2019 Nov 25. (IF 1.5)
25. Butera A, Di Paola M, Vitali F, De Nitto D, Covotta F, Borriani F, Pica R, **De Filippo C**, Cavalieri D, Giuliani A, Pronio A, Boirivant M. IL-13 mRNA Tissue Content Identifies Two Subsets of Adult Ulcerative Colitis Patients With Different Clinical and Mucosa-Associated Microbiota Profiles. *The Journal of Crohn's & Colitis*. 2020 Mar 13;14(3):369-380. doi: 10.1093/ecco-jcc/ijz154. (IF 10.020)
26. Pini Prato A, Bartow-McKenney C, Hudspeth K, Mosconi M, Rossi V, Avanzini S, Faticato MG, Ceccherini I, Lantieri F, Mattioli G, Larson D, Pavan W, **De Filippo C**, Di Paola M, Mavilio D and Cavalieri D. A Metagenomics Study on Hirschsprung's Disease Associated Enterocolitis: Biodiversity and Gut Microbial Homeostasis Depend on Resection Length and Patient's Clinical History. *Front. Pediatr*. 2019, 7:326. (IF 3.569)
27. Balli D, Bellumori M, Paoli P, Pieraccini G, Di Paola M, **De Filippo C**, Di Gioia D, Mulinacci N, Innocenti M. Study on a Fermented Whole Wheat: Phenolic Content, Activity on PTP1B Enzyme and In Vitro Prebiotic Properties. *Molecules*. 2019 Mar 21;24(6). pii: E1120. (IF 4.927)
28. **De Filippo C**, Di Paola M, Giani T, Tirelli F, Cimaz R. Gut microbiota in children and altered profiles in juvenile idiopathic arthritis. *J Autoimmun*. 2019 Mar; 98:1-12. (IF 14.511)
29. Di Paola M, Bonechi E, Provensi G, Costa A, Clarke G, Ballerini C, **De Filippo C**, Passani MB. Oleoylethanolamide treatment affects gut microbiota composition and the expression of intestinal cytokines in Peyer's patches of mice. *Sci Rep*. 2018 Oct 5;8(1):14881. (IF 4.996)

30. Butera A, Di Paola M, Pavarini L, Strati F, Pindo M, Sanchez M, Cavalieri D, Boirivant M, De Filippo C. Nod2 Deficiency in mice is Associated with Microbiota Variation Favours the Expansion of mucosal CD4+ LAP+ Regulatory Cells. *Sci Rep*. 2018 Sep 24;8(1):14241. (IF 4.996)
31. Ramazzotti M, Stefanini I, Di Paola M, **De Filippo C**, Rizzetto L, Berná L, Dapporto L, Rivero D, Tocci N, Weil T, Lenucci MS, Lionetti P, Cavalieri D. Population genomics reveals evolution and variation of *Saccharomyces cerevisiae* in the human and insect's gut. *Environ Microbiol*. 2018 Sep 24. (IF 5.476)
32. Trošt K, Ulaszewska MM, Stanstrup J, Albanese D, **De Filippo C**, Tuohy KM, Natella F, Scaccini C, Mattivi F. Host: Microbiome co-metabolic processing of dietary polyphenols - An acute, single blinded, cross-over study with different doses of apple polyphenols in healthy subjects. *Food Res Int*. 2018 Oct;112: 108-128. (IF 7.425)
33. Strati F, Calabrò A, Donati C, De Felice C, Hayek J, Jousson O, Leoncini S, Renzi D, Rizzetto L, **De Filippo C**, Cavalieri D. Intestinal *Candida parapsilosis* isolates from Rett syndrome subjects bear potential virulent traits and capacity to persist within the host. *BMC Gastroenterol*. 2018 May 2;18(1):57. (IF 2.847)
34. Cavalieri D, Di Paola M, Rizzetto L, Tocci N, **De Filippo C**, Lionetti P, Ardizzoni A, Colombari B, Paulone S, Gut IG, Berná L, Gut M, Blanc J, Kapushesky M, Pericolini E, Blasi E, Peppoloni S. Genomic and Phenotypic Variation in Morphogenetic Networks of Two *Candida albicans* Isolates Subtends Their Different Pathogenic Potential. *Front Immunol*. 2018 Jan 19;8:1997. (IF 8.785)
35. Alibrandi P, Cardinale M, Mahafizur Rahman MD, Strati F, Ciná P, de Viana ML, Gallo G, Schnell S, **De Filippo C**, Ciaccio M and Puglia AM. The seed endosphere of *Anadenanthera colubrina* is inhabited by a complex microbiota, including *Methylobacterium* spp. and *Staphylococcus* spp. with potential plant-growth promoting activities. *Plant and Soil*. 2018, 422 (1-2): 81-99. (IF 4.993)
36. Stefanini I, Albanese D, Sordo M, Legras JL, **De Filippo C**, Cavalieri D, Donati C. *Saccharomyces* Identifier, SID: strain-level analysis of *Saccharomyces cerevisiae* populations by using microsatellite meta-patterns. *Sci Rep*. 2017 Nov 10;7(1):15343. (IF 4.996)
37. Modesto M, Michelini S, Sansosti MC, **De Filippo C**, Cavalieri D, Qvirist L, Andlid T, Spiezio C, Sandri C, Pascarelli S, Sgorbati B, Mattarelli P. *Bifidobacterium callitrichidarum* sp. nov. from the faeces of the emperor tamarin (*Saguinus imperator*). *Int J Syst Evol Microbiol*. 2017 Nov 8. (IF 2.4)
38. **De Filippo C**, Di Paola M, Ramazzotti M, Albanese D, Pieraccini G, Banci E, Miglietta F, Cavalieri D, Lionetti P. Diet, Environments, and Gut Microbiota. A Preliminary Investigation in Children Living in Rural and Urban Burkina Faso and Italy. *Frontiers in Microbiology* 2017, 8: 1979 (IF 6.064)
39. Di Paola M, Sani C, Clemente AM, Iossa A, Perissi E, Castronovo G, Tanturli M, Rivero D, Cozzolino F, Cavalieri D, Carozzi F, **De Filippo C**, Torcia MG. Characterization of cervico-vaginal microbiota in women developing persistent high-risk Human Papillomavirus infection. *Sci Rep*. 2017 Aug 31;7(1):10200. (IF 4.996)
40. Ceppa F, Faccenda F, **De Filippo C**, Albanese D, Pindo M, Martelli R, Marconi P, Lunelli F, Fava F, Parisi G. Influence of essential oils in diet and life-stage on gut microbiota and fillet quality of rainbow trout (*Oncorhynchus mykiss*). *Int J Food Sci Nutr*. 2017 Aug 31:1-16. (IF 4.444)
41. Strati F, Cavalieri D, Albanese D, De Felice C, Donati C, Hayek J, Jousson O, Leoncini S, Renzi D, Calabrò A, **De Filippo C**. New evidences on the altered gut microbiota in autism spectrum disorders. *Microbiome*. 2017 Feb 22;5(1):24. (IF 13.8)
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INVITED SPEAKER AND MASTER CLASS

1. **DE FILIPPO C.** (Panelist) PANEL DISCUSSION: FOOD AND ENVIRONMENTAL MICROBIOMES: A ONE HEALTH PERSPECTIVE - 18th Congress of the International Union of Microbiological Societies (IUMS), Florence (Italy) - October 23-25, 2024.
2. **DE FILIPPO** Lezione "Microbiota gastrointestinale" 8.03.2024 - 3° edizione CORSO Microbiota Aspetti fisiopatologici, clinici e terapeutici
3. **DE FILIPPO** Lezione: Microbiota dieta e metabolismo, 26.01.2024 - 3° edizione CORSO Microbiota Aspetti fisiopatologici, clinici e terapeutici
4. **DE FILIPPO** The impact of fecal microbiome on diet-related colorectal cancer risk: contrasting red meat. The 37th EFFoST International Conference 2023, 6-8 November 2023 | Valencia, Spain.
5. **De Filippo** "Fecal microbiome as determinant of the effect of diet on colorectal cancer risk: comparison of red meat based versus pesco-vegetarian diets in rodent models". Workshop Microbioma tra mito e realtà le nuove frontiere della ricerca e dell'innovazione tecnologica perché il microbiota sia sempre più una utile realtà. Roma, 31 maggio 2023 CNR sede centrale aula Marconi.
6. **De Filippo C.** "Il microbiota intestinale come determinante dell'effetto della dieta sul rischio di cancro del colon retto". XLIII Congresso Nazionale SINU 2023 Arezzo 7-9 giugno 2023
- 7.
8. **DE FILIPPO C.** Corso "Microbiota: aspetti fisiopatologici, clinici e terapeutici" 13 Novembre 2021 Lezione: "La dieta come modulatore del Microbiota intestinale".
9. **DE FILIPPO C.** Corso Microbiota: aspetti fisiopatologici, clinici e terapeutici 13 Novembre 2021, Lezione: "Dieta, Microbiota e infiammazione intestinale"
10. **DE FILIPPO C.** Corso Microbiota: aspetti fisiopatologici, clinici e terapeutici 13 Novembre 2021, Lezione: Il Microbiota gastro-intestinale 14 Gennaio 2022
11. **DE FILIPPO** Master di I livello Fitoterapia Generale e Clinica a.a. 2020/2021 "Microbioma e Microbiota"
12. **De Filippo C** "La dieta come modulatore del microbiota intestinale", Lezione MASTER DI II° LIVELLO IN RICERCA TRASLAZIONALE IN REUMATOLOGIA, Firenze 17 gennaio 2020.
13. **De Filippo C** "Il Microbiota in salute e in malattia, possibili strategie terapeutiche" Lezione Master di I livello in "Fitoterapia Generale e Clinica", Dicembre 2020, Università degli Studi di Firenze
14. **De Filippo** "Noi e i nostri miliardi di batteri" Lezione presso Liceo Scientifico Statale Buonarroti, 21 marzo 2019
15. **De Filippo C.** Convegno SINU (Toscana) - Dieta Mediterranea e Microbiota, Firenze 9-10 giugno 2018.
16. **De Filippo C** "Il nostro Microbiota intestinale: Il ruolo della dieta", Gastroped, incontri di Gastroenterologia e Nutrizione Pediatrica, 9 -10 febbraio 2018, Istituto degli Innocenti, Firenze.
17. **De Filippo C** "Microbiota, il secondo genoma: La Nostra Africa, effetto globalizzazione sui batteri che abitano in noi", Giovedì Scienza 16.11.2017, Torino - Teatro Colosseo.
18. **De Filippo C** "Role of nutrition in shaping gut microbiota: the effect of diet globalization on gut microbiota" presso FORMAZIONE RESIDENZIALE, EVENTO ECM 2603-186423 "MICROBIOTA REALTA' E PROSPETTIVE FUTURE", PISTOIA, 8 APRILE 2017.
19. **De Filippo C.**, "Role of nutrition in shaping gut microbiota" EXPO-CNR- Workshop "Microbiota, nutrition and wellness: a system based approach" Milano, September 16th , 2015
20. **De Filippo C** "Dieta microbiota e micobiota in salute e malattia" Seminar, Gli Incontri Scientifici di NEUROFARBA 2 luglio 2014, Aula Magna dell'Ospedale Meyer, Department of Neuroscience, Psychology, Pharmacology and Child's Health (NEUROFARBA), Università di Firenze.

21. **De Filippo C.** "Relazione fra microbioma e immunità intestinale." Convegno: Le sfide Nutrizionali utili per la celiachia, per la malattia metabolica e le sue complicanze. Bologna Fiere, Sala Concerto. 10/05/2014
22. **De Filippo C** Course Directors of the EAGEN Postgraduate Course "Gut Microbiome, Nutrition and Health", July 10-11, 2013, Gemelli Hospital, Catholic University of Rome.
23. **De Filippo C.** Il Microbiota Interazione Tra Microorganismi e Corpo Umano. Convegno LiLT Polo Scientifico Ferrari, Povo Trento, 15 febbraio 2014.
24. **De Filippo C.** "Characterization of fecal mycobiota reveals yeast-host coevolution in pediatric Crohn's disease" MICROBIOLOGY 2013: 30th Meeting of the Società Italiana di Microbiologia Generale e Biotecnologie Microbiche (SIMGBM) Session C: Interactions between virus-microbes with their hosts. Ischia, September 18th-21st 2013
25. **De Filippo C.** "Evolutionary metagenomics of symbioses" EVOLUTION DAY. Bioinformatics Summer School, Friday 29 June 2012. Sala Convitto, Fondazione Edmund Mach, San Michele all'Adige (TN)
26. **De Filippo C.** "Impact of diet in shaping gut microbiota" _Invited speaker XII edition of the National Meeting of the Federazione Italiana Scienze della Vita (FISV), Roma, La Sapienza, 24– 27/09/2012.
27. **De Filippo C & Cavalieri D.** "The Impact of Diet on Gut Microbiota in Children From Europe and Rural Africa" Invited speaker at plenary session at 11th General Meeting American Society for Microbiology (ASM), May 21-24, 2011 New Orleans, Louisiana.
28. **De Filippo C** "Dalla Malnutrizione al Microbiota: una lezione dal Burkina Faso", Workshop La • Relatore/Correlatore di 23 Studenti Laurea Triennale e Magistrale (Università degli Studi di Padova, Università degli Studi di Bologna, Università degli Studi di Firenze).

Pisa, 29/11/2024

Dr.ssa Carlotta De Filippo



Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003 e dell'art. 13 GDPR