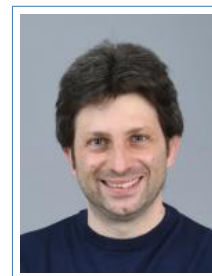


Nicola Segata

Ph.D.

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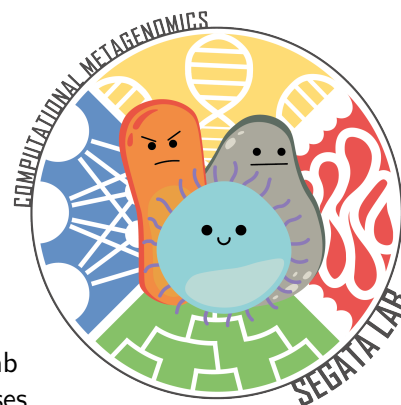
Curriculum Vitae - November 19, 2023

Personal Information

birth date February 15, 1982.

nationality Italian.

research statement I am working in the fields of human microbiome research and computational biology. The Computational Metagenomics Lab <http://segatalab.cibio.unitn.it> I lead at the Dep. CIBIO comprises 8 postdocs, 2 research assistants, 9 Ph.D. students, and several pre-doctoral students. We use experimental metagenomic tools and novel computational approaches to study the diversity of the human microbiome and its cross-talk with the human body in health and disease.



Current positions

Apr 2021-
now **Full Professor**, Department CIBIO,
University of Trento, Italy.

Nov 2012 -
now **Principal Investigator**, Laboratory of Computational Metagenomics,
Department CIBIO, University of Trento, Italy.

Feb 2020 -
now **Investigator and Group Leader**, European Institute of Oncology, Milan, Italy.



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OF TRENTO



Past research positions

2018-2021 **Associate Professor**, Department CIBIO, University of Trento, Italy.

2013-2017 **Assistant Professor**, Centre for Integrative Biology (CIBIO), University of Trento, Italy.

Jul 2010-
Oct 2012 **Postdoctoral fellow**, Harvard School of Public Health (HSPH), Biostatistics department, Harvard University, Boston, MA, USA. Mentor: prof. Curtis Huttenhower.

Jan 2010-
Jun 2010 **Postdoctoral fellow**, Laboratory of Microbial Genomics, Centre for Integrative Biology (CIBIO), University of Trento, Italy. Mentor: prof. Olivier Jousson.

Education

2009 **PhD Dissertation**, Dept. of Information Engineering & Computer Science, University of Trento. Discussion of the thesis "Local approaches for fast, scalable and accurate learning with kernels" under the supervision of prof. Enrico Blanzieri.

2006 **Master Degree in Computer Science**, University of Trento, Grade 110/110 cum laude. Discussion of the thesis "Beta-binders and π -calculus approaches for quantitative modelling of biological pathways", under the supervision of prof. C. Priami and prof. E. Blanzieri.

2004 **Bachelor Degree in Computer Science**, University of Trento, Grade 110/110 cum laude. Discussion of the thesis "Sistemi di monitoraggio video: il problema dello sfondo in presenza di variazioni globali di illuminazione", under the supervision of prof. C. Priami and dott. S. Messelodi.

Awards

- 2023 **Early Career Research Quality Award 2023** by the Rector of University of Trento. The award is given to the research who demonstrated the highest quality of research within University of Trento
- 2023 **Jürgen Manchot Research Professorship for Experimental Infection Medicine 2023** by Heinrich-Heine-University of Düsseldorf, Germany
- 2023 **Joint 2nd place for the Nature Awards Research Group Prize 2023** by Yakult and Nature Portfolio. The prize is given to the Nicola Segata lab (and their network of collaborators)
- 2022 **A bacterial genus named after Prof. Nicola Segata** Segatella gen. nov. Segatella (Se.ga.tel'la. L. fem. dim. suff. -ella, diminutive ending; N.L. fem. n. Segatella, has been named in "honour of the contemporary Italian microbial geneticist Nicola Segata who has significantly increased our knowledge of this group of bacteria" by [Hitch et al., Systematic and Applied Microbiology, 2022]
- 2020 **Knight of the Order of Merit of the Italian Republic ("Cavaliere della Repubblica")** appointed by the President of the Italian Republic (n 12382, serie VI, decr. 27/12/2019).
- 2019 **Pharmabiotics 2019 Young Investigators Award (10,000 EUR)** by Institut Merieux and the Pharmabiotic Research Institute.
- 2019 **X Prêmio 2019 "Octavio Frias de Oliveira" (Co-recipient)** awarded by the São Paulo State câncer center and the São Paulo faculty of medicine for the paper [Thomas, Manghi, ... , Segata, Nature Medicine 2019].
- 2019 **Invited member of the "Gruppo 2003" association** of the "most influential Italian scientists by citation indexes".
- 2018 - now **Listed as one of the "Highly Cited Researcher"** by Clarivate Analytics and Web of Science.
- 2018 **H.G. Goldman Award (Co-recipient)** by the SIdP for the work by [Ghensi, Manghi, ..., Segata, 2019] on the oral microbiome in peri-implantitis.
- 2017 **Dr. Darwin award (Co-recipient)** by the Italian Society for Evolutionary Biology for the paper [Asnicar, Manara, ... , Segata, mSystems 2016].
- 2015 **LEO Pharma Research Foundation Gold Award 2015 (1M DKK, 134k EUR)** awarded by LEO Pharma in association with the European Society for Dermatology. The award is "given to talented and committed young researchers in recognition of their exceptional contribution to science".
- 2012 **Travel fellowship** awarded by ISCB with grant funds obtained from the NSF-National Science Foundation Bio-Directorate.
- 2012 **IHMC-2012 travel award** from the National Institutes of Health (NIH).
- 2011 **PQG travel fellowship award** from the Program in Quantitative Genomics at the Harvard School of Public Health.
- 2011 **Travel fellowship award** from the International Society for Computational Biology (ISCB) funded by DOE-Department of Energy Office of Science, NSF-National Science Foundation Bio-Directorate, and NIH NIMGS-National Institute of General Medical Sciences.
- 2009 **Best Paper Award** at the 6th International Conference on Machine Learning and Data Mining, for the paper: Nicola Segata, Enrico Blanzieri: "Fast local support vector machines for large datasets".

Teaching

- 2016-now "Computational Microbial Genomics", Master Course, Master in Quantitative and Computational Biology, University of Trento, Trento, Italy
- 2014-now "Introduction to Metagenomics", PhD Course, International PhD Program in Biomolecular Sciences, University of Trento, Trento, Italy
- 2013-2015 "High-throughput methodologies 2: data analysis", Master Degree in Cellular and Molecular Biotechnology, University of Trento, Trento, Italy
- Spring 2010 Assistant teacher for the course "Informatica e Principi di Programmazione", Bachelor Degree in Cognitive Science, University of Trento, Rovereto, Italy.
- Fall 2009 Assistant teacher for the course "Data Mining for Biological Data" (teaching language English), Master Degree in Computer Science - Bioinformatics specialization, University of Trento, Trento, Italy
- Fall 2009 Teacher for the additional course "Informatica e Principi di Programmazione", Bachelor Degree in Cognitive Science, University of Trento, Rovereto, Italy.

Grants

- Total funding Overall, I have secured over 13 million € for research in my laboratory since 2013. Funding from commercial contracts ("conto terzi") are not considered nor reported here.
- 2023-2028 **DOMINO**. Horizon Europe: Fair, healthy and environmentally-friendly food systems from primary production to consumption HORIZON-CL6-2021-FARM2FORK-01 (Work Package Leader) (1,033,262 € to N.S.)
- 2023-2028 PNRA2022 Linea B. Ministry of University and Research (MUR) (Project coordinator) (269,900 €)
- 2023-2027 **CoDiet**. Horizon Europe: Combatting diet related non-communicable disease through enhanced surveillance HORIZON-CL6-2022-FARM2FORK-01 (Work Package Leader) (464,391 € to N.S.)
- 2023-2026 **PreBiomicsPMT**. European Innovation Council (EIC) Transition (PI) (2,461,900 € to N.S. at PreBiomics)
- 2022-2027 **microTOUCH**. H2020 ERC Consolidator grant (PI) (2,390,000 € to N.S.)
- 2020-2022 EMBO Postdoctoral Fellowship (Scientific Coordinator for the Fellowship to Mireia Valles-Colomer)
- 2020-2023 **IHMCSA**. International Human Microbiome Coordination and Support Action H2020-SC1-2020-Single-Stage-RTD) Grant (Work Package Leader) (161,000 € to N.S.)
- 2020-2022 **PB3P**. ERC Proof of Concept to PreBiomics (150,000 € to N.S.)
- 2019-2024 **ONCOBIOME**. H2020 Better Health and care, economic growth and sustainable health systems H2020-SC1-BHC-2018-2020 Grant (Work Package Leader) (1,561,00 € to N.S.)
- 2019-2021 Simons Foundation Autism Research Initiative - Pilot Award (Co-Investigator) (125,400 \$ to N.S.)
- 2019-2024 U01 award by the National Institutes of Health (NIH) and National Cancer Institute (NCI) (Senior/Key Person) (329,056 \$ to N.S.)
- 2019-2023 **MASTER**. H2020 Sustainable Food Security H2020-SFS-2018-2020 Grant (Work Package Leader) (509,950 € to N.S.)
- 2019-2023 PRIN MIUR (LS6 Sector, Local PI) (148,000 € to N.S.)
- 2019-2024 **VACCIBIOME**. Collaborator/Investigator for the H2020 ERC Advanced Investigator Grant to prof. Guido Grandi (Investigator) (150,000 € to N.S.)

- 2019-2023 Award from the Institut Merieux and the Pharmabiotic Research Institute (10,000 € to N.S.)
- 2018-2022 Italian Ministry of Health 2018, "Ricerca Finalizzata" (Local PI) (90,000 € to N.S.)
- 2018-2020 NIH Sub-award from the Forsyth Institute (105,000 € to N.S.)
- 2017-2021 Italian Ministry of Health 2016, "Ricerca Finalizzata" (Local PI) (90,000 € to N.S.)
- 2017-2022 **MetaPG**. H2020 ERC Starting Investigator grant (PI) (1,500,000 € to N.S.)
- 2017-2022 **MODULATE**. H2020 ERC Starting Investigator Grant to prof. Harry Sokol (Third linked party - Local PI) (150,000 € to N.S.)
- 2016-2018 Eklund Foundation (40,000 € to N.S.)
- 2017-2019 ITI International Team for Implantology Foundation (40,600 € to N.S.)
- 2013-2016 Futuro in Ricerca 2013 (MIUR) (PI) (348,000 € to N.S.)
- 2015-2017 LEO Pharma Research Foundation Gold Prize 2015 (PI) (134,000 € to N.S.)
- 2016-2018 Marie Skłodowska-Curie Individual Fellowships (Scientific Coordinator for the Fellowship to Edoardo Pasolli) (180,277 €)
- 2016-2018 Marie Skłodowska-Curie Individual Fellowships (Scientific Coordinator for the Fellowship to Federica Pinto) (180,277 €)
- 2016-2018 SIdP (PI) (30,000 € to N.S.)
- 2016-2018 Lega Italiana per la Lotta contro i Tumori (PI) (72,000 € to N.S.)
- 2015-2016 Italian Cystic Fibrosis foundation (External Collaboration) (24,000 € to N.S.)
- 2013-2017 FP7 Marie Curie Career Integration Grant (PI) (100,000 € to N.S.)
- 2013-2017 CARITRO - Giovani Ricercatori 2013 (PI) (213,000 € to N.S.)
- 2013-2015 Terme di Comano - Skin Microbiome (PI) (78,000 € to N.S.)
- 2014 UNITN award for reaching the final stage of the ERC Starting Grant (PI)(10,000 € to N.S.)
- 2010-2012 Postdoctoral fellowship at the Harvard School of Public Health, Biostatistics Department, Huttenhower lab, Harvard University, Boston.
- 2010 Postdoctoral research grant at the Laboratory of Microbial Genomics, Centre for Integrative Biology (CIBIO), University of Trento, Italy.
- 2006-2009 PhD research grant at the Department of Information Engineering and Computer Science (XXII cycle), University of Trento, Italy.

(Co)organization of Conferences, Schools, and Workshops

- Since Sep 2021 **The Microbiome Virtual International Forum** <https://www.microbiome-vif.org/> Co-founder.
- Oct 26-28, 2023 **The 4th International World of Microbiome Conference WOM 2023** Sofia, Bulgaria. Coorganizer
- Sep 20-23, 2023 **EMBO|EMBL Symposium on "The Human Microbiome"** (third edition), Heidelberg, Germany. Coorganizer with Peer Bork and Manimozhiyan Arumugam
- Apr 28-30, 2022 **The 3th International World of Microbiome Conference WOM 2022** Sofia, Bulgaria. Coorganizer
- Jul 23, 2019 **MICROBIOME C.O.S.I. day at ISMB 2019**, Basel, Switzerland. Coorganizer and Co-chair
- Oct 10, 2018 **Microbiota: tra ricerca di base e applicazioni cliniche**, Comano, Italy. Coorganizer
- Sep 16-19, 2018 **EMBO|EMBL Symposium on "The Human Microbiome"** (second edition), Heidelberg, Germany. Coorganizer with Peer Bork and Manimozhiyan Arumugam
- Oct 21, 2017 **Microbiota: le nuove frontiere della medicina**, Comano, Italy. Coorganizer
- Sep 24, 2016 **Microbiota nella medicina del futuro**, Comano, Italy. Coorganizer

- Oct 03, 2015 **Microbiota: salute, terme e alimentazione**, Comano, Italy. Coorganizer
- Sep 08-11, 2014 **Biology Summer School: Systems, Synthetic and Semantic Biology**, Trento, Italy. Coorganizer
- Feb 15, 2014 **Il microbiota: interazione tra microrganismi e corpo umano**, Comano, Italy. Coorganizer

Other collaborations and activities

- 2018 - now Co-founder and scientific advisor of PreBiomics s.r.l. on the use of the plaque microbiome for oral health, <http://www.prebiomics.com/>
- 2017 - now Scientific consultant for ZOE on the use of gut metagenomics for personalized nutrition, <https://joinzoe.com/>
- as of 2020 In the Scientific Advisor Board of PreBiomics, ZOE, YSOPIA Bioscience, Freya

Trainees with Tenure-track academic positions

- Mireia Valles-Colomer Postdoctoral fellow in the lab from 2020 to 2023, now tenure-track group leader at the MELIS department of the University Pompeu Fabra, Barcelona, Spain
- Sabrina Tamburini Research Scientist in the IEO lab from 2020 to 2022, now tenure-track assistant professor (RTDb) at University of Naples
- Edoardo Pasolli Postdoctoral fellow in the lab from 2015 to 2018, now associate professor at University of Naples
- Adrian Tett Postdoctoral fellow in the lab from 2014 to 2020, now tenure-track assistant professor at University of Vienna
- Matthias Scholz Postdoctoral fellow in the lab from 2013 to 2016, now tenured senior scientist at Fondazione Edmund Mach

Editorial, Reviewer, Teaching, and Scientific Committee Activity

- 2022-now Member of the Scientific Advisory Board of the APC Microbiome Ireland
- 2022-now Member of the Ph.D. School Committee in "Systems Medicine" at the University of Milan (DOT1315598)
- 2021-now Associate Editor for "npj Biofilms and Microbiomes"
- 2021-now Invited Editor for "eLife"
- 2020-now Chair of the Scientific Committee of the "World of Microbiome" conference series
- 2020-now Scientific Committee Member for the Pharmabiotics 2021 Conference and Partnering
- 2020-now Editorial Advisory Board Member for Cell Reports Medicine
- 2019-now Editorial Board Member for Genome Biology
- 2018-now Editorial Board Member for mSystems by the American Society for Microbiology
- 2018-now Member of the "Comitato Tecnico Sanitario" for the Italian Ministry of Health
- 2017-now Member of the Ph.D. School Committee in "Biomolecular Sciences" at the University of Trento (DOT1362008)
- 2017-now Associate Editor for PLOS Computational Biology
- 2016-now Member of the International Scientific Committee of the Biocodex Microbiota Foundation
- 2015-now Editor for mSystems by ASM
- 2014-now Associate Editor for BMC Nutrition
- 2018-2019 Associate Editor for Frontiers in Microbiology

2014 Invited Editor for mBio

Thesis supervisor

Ph.D. students	So far I supervised 5 students who obtained their Ph.D.
Master students	So far I supervised 19 students who obtained their Master Degree in Biology, Biotechnology, or Computer Science
Bachelor students	So far I supervised 14 students who obtained their Bachelor Degree in Biology, Biotechnology, or Computer Science

Talks, Invited Talks, Tutorials, and Seminars

2010 - now I am regularly invited to give Keynote Lectures, Invited Talks, and Seminars. Since 2010 I gave over 220 such talks, and over 50 in 2023 alone

Publications

H-index	83 (Google Scholar), 73 (Scopus)
i10-index	169 (Google Scholar), 149 (Scopus)
# citations	>70,000 (Google Scholar), >51,000 (Scopus)

15 most representative papers as last and corresponding author since 2019

- [1] Aitor Blanco-Míguez, Francesco Beghini, Fabio Cumbo, Lauren J. McIver, Kelsey N. Thompson, Moreno Zolfo, Paolo Manghi, Leonard Dubois, Kun D. Huang, Andrew Maltez Thomas, William A. Nickols, Gianmarco Piccinno, Elisa Piperni, Michal Punčochář, Mireia Valles-Colomer, Adrian Tett, Francesca Giordano, Richard Davies, Jonathan Wolf, Sarah E. Berry, Tim D. Spector, Eric A. Franzosa, Edoardo Pasolli, Francesco Asnicar, Curtis Huttenhower, and [Nicola Segata](#). [Extending and improving metagenomic taxonomic profiling with uncharacterized species using MetaPhlAn 4](#). **Nature Biotechnology**, 2023.
- [2] Aitor Blanco-Míguez, Eric J.C. Gálvez, Edoardo Pasolli, Francesca De Filippis, Lena Amend, Kun D. Huang, Paolo Manghi, Till Robin Lesker, Thomas Riedel, Linda Cova, Michal Punčochář, Andrew Maltez Thomas, Mireia Valles-Colomer, Isabel Schober, Thomas C.A. Hitch, Thomas Clavel, Sarah E. Berry, Richard Davies, Jonathan Wolf, Tim D. Spector, Jörg Overmann, Adrian Tett, Danilo Ercolini, [Nicola Segata*](#), and Till Strowig*. Extension of the segatella copri complex to 13 species with distinct large extrachromosomal elements and associations with host conditions. **Cell Host & Microbe**, 31:1804–1819.e9, 2023.
- [3] Mireia Valles-Colomer, Aitor Blanco-Míguez, Paolo Manghi, Francesco Asnicar, Leonard Dubois, Davide Golzato, Federica Armanini, Fabio Cumbo, Kun D Huang, Serena Manara, Giulia Masetti, Federica Pinto, Elisa Piperni, Michal Punčochář, Liviana Ricci, Moreno Zolfo, Olivia Farrant, Adriana Goncalves, Marta Selma-Royo, Ana G Binetti, Jimmy E Becerra, Bei Han, John Lusingu, John Amuasi, Loredana Amoroso, Alessia Visconti, Claire M Steves, Mario Falchi, Michele Filosi, Adrian Tett, Anna Last, Qian Xu, Nan Qin, Huanlong Qin, Jürgen May, Daniel Eibach, Maria Valeria Corrias, Mirco Ponzoni, Edoardo Pasolli, Tim D Spector, Enrico Domenici, Maria Carmen Collado, and [Nicola Segata](#). [The person-to-person transmission landscape of the gut and oral microbiomes](#). **Nature**, 614:125–135, 2023.
- [4] Mireia Valles-Colomer, Cristina Menni, Sarah E. Berry, Ana M. Valdes, Tim D. Spector, and [Nicola Segata](#). Cardiomicrobial health, diet and the gut microbiome: a meta-omics perspective, 2023.
- [5] Gianluca Ianaro, Michal Punčochář, Nicolai Karcher, Serena Porcari, Federica Armanini, Francesco Asnicar, Francesco Beghini, Aitor Blanco-Míguez, Fabio Cumbo, Paolo Manghi, Federica Pinto, Luca Mascucci, Gianluca Quaranta, Silvia De Giorgi, Giusi Desirè Sciumè, Stefano Bibbò, Federica Del Chierico,

- Lorenza Putignani, Maurizio Sanguinetti, Antonio Gasbarrini, Mireia Valles-Colomer, Giovanni Cammarota, and [Nicola Segata](#). [Variability of strain engraftment and predictability of microbiome composition after fecal microbiota transplantation across different diseases](#). **Nature Medicine**, 28:1913–1923, 2022.
- [6] Karla Lee, Andrew Thomas, Laura Bolte, Johannes Björk, Laura Kist de Ruijter, Federica Armanini, Francesco Asnicar, Ruth Board, Neus Calbet-Llopart, Lisa Derosa, Nathalie Dhomen, Kelly Brooks, Mark Harland, Mark Harries, Emily Leeming, Paul Lorigan, Paolo Manghi, Richard Marais, Julia Newton-Bishop, Luigi Nezi, Miriam Potrony, Susana Puig, Patricio Serra-Bellver, Heather Shaw, Sara Valpione, Amrita Vijay, Levi Waldron, Laurence Zitvogel, Elisabeth de Vries, Paul Nathan, Rudolf Fehrmann, Veronique Bataille, Geke Hospers, Tim Spector, Rinse Weersma, and [Nicola Segata](#). [Cross-cohort gut microbiome associations with immune checkpoint inhibitor response in advanced melanoma](#). **Nature Medicine**, 28:534–544, 2022. [I.F. 53.44].
- [7] Francesco Asnicar, Sarah E Berry, Ana M Valdes, Long H Nguyen, Gianmarco Piccinno, David A Drew, Emily Leeming, Rachel Gibson, Caroline Le Roy, Haya Al Khatib, Lucy Francis, Mohsen Mazidi, Olaz Mompeo, Mireia Valles-Colomer, Adrian Tett, Francesco Beghini, Leonard Dubois, Davide Bazzani, Andrew Maltez Thomas, Chloe Mirzayi, Asya Khleborodova, Sehyun Oh, Rachel Hine, Christopher Bonnet, Joan Capdevila Pujol, Serge Danzanvilliers, Francesca Giordano, Ludwig Geistlinger, Levi Waldron, Richard Davies, George Hadjigeorgiou, Jonathan Wolf, Jose M Ordovas, Christopher D Gardner, Paul W Franks, Andrew T Chan, Curtis Huttenhower, Tim D Spector, and [Nicola Segata](#). [Microbiome connections with host metabolism and habitual diet from 1098 deeply phenotyped individuals](#). **Nature Medicine**, 27:321–332, 2021. [I.F. 53.44].
- [8] Adrian Tett, Edoardo Pasolli, Giulia Masetti, Danilo Ercolini, and [Nicola Segata](#). [Prevotella diversity, niches and interactions with the human host](#). **Nature Reviews Microbiology**, 19:585–599, 2021. [I.F. 34.21].
- [9] Francesco Asnicar, Andrew Maltez Thomas, Francesco Beghini, Claudia Mengoni, Serena Manara, Paolo Manghi, Qiyun Zhu, Mattia Bolzan, Fabio Cumbo, Uyen May, Jon G Sanders, Moreno Zolfo, Evguenia Kopylova, Edoardo Pasolli, Rob Knight, Siavash Mirarab, Curtis Huttenhower, and [Nicola Segata](#). [Precise phylogenetic analysis of microbial isolates and genomes from metagenomes using PhyloPhlAn 3.0](#). **Nature Communications**, 11, 2020. [I.F. 12.12].
- [10] Nicolai Karcher, Edoardo Pasolli, Francesco Asnicar, Kun Huang, Adrian Tett, Serena Manara, Federica Armanini, Debbie Bain, Sylvia H Duncan, Petra Louis, Moreno Zolfo, Paolo Manghi, Mireia Valles-colomer, Roberta Raffaetà, Omar Rota-Stabelli, Maria Carmen Collado, Georg Zeller, Daniel Falush, Frank Maixner, Alan W Walker, Curtis Huttenhower, and [Nicola Segata](#). [Analysis of 1,321 Eubacterium rectale genomes from metagenomes uncovers complex phylogeographic population structures and subspecies functional adaptations](#). **Genome Biology**, 21, 2020. [I.F. 14.03].
- [11] Serena Manara, Francesco Asnicar, Francesco Beghini, Davide Bazzani, Fabio Cumbo, Moreno Zolfo, Eleonora Nigto, Nicolai Karcher, Paolo Manghi, Marisa Isabell Metzger, Edoardo Pasolli, and [Nicola Segata](#). [Microbial genomes from gut metagenomes of non-human primates expand the tree-of-life with over 1,000 novel species](#). **Genome Biology**, 20, 2019. [I.F. 14.03].
- [12] Edoardo Pasolli, Francesco Asnicar, Serena Manara, Moreno Zolfo, Nicolai Karcher, Federica Armanini, Francesco Beghini, Paolo Manghi, Adrian Tett, Paolo Ghensi, Maria Carmen Collado, Benjamin L Rice, Casey DuLong, Xochitl C Morgan, Christopher D Golden, Christopher Quince, Curtis Huttenhower, and [Nicola Segata](#). [Extensive unexplored human microbiome diversity revealed by over 150,000 genomes from metagenomes spanning age, geography, and lifestyle](#). **Cell**, 176:649–662, 2019. [I.F. 31.40].
- [13] Adrian Tett, Kun Huang, Francesco Asnicar, Hannah Fehlner-Peach, Edoardo Pasolli, Nicolai Karcher, Federica Armanini, Paolo Manghi, Kevin Bonham, Moreno Zolfo, Francesca De Filippis, Cara Magnabosco, Richard Bonneau, John Lusingu, John Amuasi, Karl Reinhard, Thomas Rattei, Fredrik Boulund, Lars Engstrand, Albert Zink, Maria Carmen Collado, Dan Littman, Daniel Eibach, Danilo Ercolini, Omar Rota-Stabelli, Curtis Huttenhower, Frank Maixner, and [Nicola Segata](#). [The Prevotella copri complex comprises four distinct clades underrepresented in Westernized populations](#). **Cell Host & Microbe**, 26:666–679, 2019. [I.F. 17.87].
- [14] Andrew Maltez Thomas, Paolo Manghi, Francesco Asnicar, Edoardo Pasolli, Federica Armanini, Moreno Zolfo, Francesco Beghini, Serena Manara, Nicolai Karcher, Chiara Pozzi, Sara Gandini, Davide Serrano, Sonia Tarallo, Antonio Francavilla, Gaetano Gallo, Mario Trompetto, Giulio Ferrero, Sayaka Mizutani, Hirotsugu Shiroma, Satoshi Shiba, Tatsuhiro Shibata, Shinichi Yachida, Takuji Yamada, Jacob Wirbel,

- Petra Schrotz-King, Cornelia M Ulrich, Hermann Brenner, Manimozhiyan Arumugam, Peer Bork, Georg Zeller, Francesca Cordero, Emmanuel Dias-Neto, Joao Carlos Setubal, Adrian Tett, Barbara Pardini, Maria Rescigno, Levi Waldron, Alessio Naccarati, and [Nicola Segata](#). [Metagenomic analysis of colorectal cancer datasets identifies cross-cohort microbial diagnostic signatures and a link with choline degradation](#). **Nature Medicine**, 25:667–678, 2019. [I.F. 32.62].
- [15] Moreno Zolfo, Federica Pinto, Francesco Asnicar, Adrian Tett, Frederic D Bushman, and [Nicola Segata](#). [Detecting contamination in viromes using ViromeQC](#). **Nature Biotechnology**, 37:1408–1412, 2019. [I.F. 35.7].

All Papers (titles are web links)

- [1] Giacomo Antonello, Freida Blostein, Deesha Bhaumik, Elyse Davis, Martin Gögele, Roberto Melotti, Peter Pramstaller, Cristian Pattaro, [Nicola Segata](#), Betsy Foxman, and Christian Fuchsberger. Smoking and salivary microbiota: a cross-sectional analysis of an italian alpine population. **Scientific Reports**, 13, 2023.
- [2] Francesco Asnicar, Andrew Maltez Thomas, Andrea Passerini, Levi Waldron, and [Nicola Segata](#). [Machine learning for microbiologists](#). **Nature Reviews Microbiology**, 2023.
- [3] Kate M. Bermingham, Anna May, Francesco Asnicar, Joan Capdevila, Emily R. Leeming, Paul W. Franks, Ana M. Valdes, Jonathan Wolf, George Hadjigeorgiou, Linda M. Delahanty, [Nicola Segata](#), Tim D. Spector, and Sarah E. Berry. Snack quality and snack timing are associated with cardiometabolic blood markers: the zoe predict study. **European Journal of Nutrition**, 2023.
- [4] Kate M. Bermingham, Sophie Stensrud, Francesco Asnicar, Ana M. Valdes, Paul W. Franks, Jonathan Wolf, George Hadjigeorgiou, Richard Davies, Tim D. Spector, [Nicola Segata](#), Sarah E. Berry, and Wendy L. Hall. Exploring the relationship between social jetlag with gut microbial composition, diet and cardiometabolic health, in the zoe predict 1 cohort. **European Journal of Nutrition**, 2023.
- [5] Aitor Blanco-Míguez, Francesco Beghini, Fabio Cumbo, Lauren J. Mclver, Kelsey N. Thompson, Moreno Zolfo, Paolo Manghi, Leonard Dubois, Kun D. Huang, Andrew Maltez Thomas, William A. Nickols, Gianmarco Piccinno, Elisa Piperni, Michal Punčochář, Mireia Valles-Colomer, Adrian Tett, Francesca Giordano, Richard Davies, Jonathan Wolf, Sarah E. Berry, Tim D. Spector, Eric A. Franzosa, Edoardo Pasolli, Francesco Asnicar, Curtis Huttenhower, and [Nicola Segata](#). [Extending and improving metagenomic taxonomic profiling with uncharacterized species using MetaPhlAn 4](#). **Nature Biotechnology**, 2023.
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