

Alfonso Esposito, Ph.D.

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• CURRENT POSITION

Since 10/2024 Associate Professor of Genetics (SSD Bio/18) at the Department of Biotechnology of the University of Verona, Verona, Italy

• EDUCATION

- 2015 Ph.D. in Management of mountains environments, at the Faculty of Science and Technology of the Free University of Bozen-Bolzano (UniBz), Italy. Supervisor: Dr. Lorenzo Brusetti.
- 2006 Master in biological sciences, thesis in systematic botany at the faculty of mathematics, physics and Natural sciences of the University of Naples “Federico II”, Italy. Supervisor: Prof. Paolo Caputo.
- 2004 Bachelor in biological sciences, thesis in molecular biology at the faculty of mathematics, physics and Natural sciences of the University of Naples “Federico II”, Italy. Supervisor: Prof. Francesco Aniello.

• PAST POSITIONS

- 2023-24 Associate Professor of Genetics (SSD Bio/18) at the Faculty of Medicine and Surgery of the University of Enna Kore, Italy.
- 2021-22 Scientific Consultant at the Computational Biology Unit of the the International Centre for Genetic Engineering and Biotechnology (ICGEB), led by Dr. Silvano Piazza.
- 2016-21 Post-Doctoral researcher at the microbial genomics lab, led by Prof. Olivier Jousson, Dept. of Cellular, Computational and integrative biology (CIBIO) of the University of Trento, Italy.
- 2015 Contract researcher, Dept. of agriculture of the University of Naples “Federico II”, Italy.
- 2012-15 PhD student at the faculty of Science and Technology of the UniBz, Italy.
- 2011 Contract researcher at the faculty of Science and Technology of the UniBz, Italy.

• FELLOWSHIPS AND SHORT-TERM EXPERIENCES

- 2023 Fixed term researcher - type A (four months) Dept. of agriculture of the UniBz, Italy.
- 2013 PhD abroad stay (3 months) at the Leibniz Institute - Deutsche Sammlung von Mikroorganismen und Zellkulturen (DSMZ) in Braunschweig, Germany. Supervisor: Dr. Johannes Sikorski.
- 2010 Trainng period (four months) at the Department of Biotechnology oft he University of Verona. Supervisor Prof. Massimo Delledonne.
- 2010 Short visit (10 days) at the National Herbarium Nederland, Leiden. Within the EDIT - Expert-in-training for the training course in Bryology and mycology. Supervisor: Dr. Michael Stech.
- 2008-10 Fellowship at the National Centre for Biosystematics (NCB) of the Natural History Museum (NHM) of the University of Oslo, Norway. Supervisor: Prof. Christian Brochmann.
- 2008 Fellowship awarded by the Italian Ministry of Foreign Affairs and the Swedish Institute at the Dept. of Botany of the University of Stockholm, Sweden. Supervisor: Prof. Joerg Schonenberger.
- 2007 Post-degree fellowship, Faculty of Agriculture of the University of Naples “Federico II”, Italy.
- 2005 SOCRATES-ERASMUS exchange student fellowship at the Institute of Molecular Biology and Physiology of the University of Copenhagen, Denmark.

• TEACHING ACTIVITIES

- Since 2024 **Genetics** (6 credits) and **Computational Genomics** (6 credits) at the Department of Informatics, and Biotechnology, respectively of the University of Verona. Responsible for the practical part of the course **Human Genome Sequencing and Interpretation** (1 credit) and **Human Genomics and Epigenomics** (1 credit) at the Department of Biotechnology of the University of Verona.
- 2023 **Biology and Genetics** (SSD Bio/13 and BIO/18, 6+4 credits) at the Medicine and Surgery course at the University of Enna Kore.
- 2023 **Genetics module** (BIO/18, 1 credit) for the Biochemistry, Biology and Genetic course for the Nursery degree at the University of Enna Kore.
- 2023 **Laboratory of Phytopathology** (AGR/12, 3 credits) at the Free University of Bozen-Bolzano
- 2018-20 **Teaching assistant** for the microbial biotechnologies course held by Prof Orietta Massidda at the Dept. of Cellular, Computational and integrative biology (CIBIO), University of Trento, Italy.
- 2017 **Teaching assistant** for the organic chemistry course held by Dr. Stefano Benini at the Faculty of Science and Technologies of the Free University of Bozen-Bolzano, Italy.
- 2013 **Teaching assistant** for the practical course “Advanced molecular biology techniques in fruit Science”, held by Prof Sanja Baric at the Free University of Bozen-Bolzano, Italy.

• INVITED PRESENTATIONS

- 2019 Instructional course “Corneal ulcer and their diagnosis” at the 37th European Society of Cataract and Refractive Surgeons (ESCRS) congress, 14-18 September, Paris, France.
- 2018 5th conference “Microbiota: tra ricerca di base e applicazioni cliniche”, 10 October 2018, Comano terme, Italy.
- 2016 3rd conference “Microbiota nella medicina del futuro” 24 September 2016, Comano terme, Italy.
- 2014 First workshop on the ecology of glacier forelands, 17-21 September, Obergurgl, Austria.
- 2013 First workshop of the project EMERGE - Retreating glaciers and EMERGING Ecosystems in the Southern Alps, 28 May, Free University of Bozen-Bolzano, Italy.

• CURRENT AND RECENT MISCELLANEOUS ACTIVITY

- Editorial** Academic Editor for the journal PLOS ONE; Review Editor on the Editorial Board of Host and Microbe Associations (specialty section of Frontiers in Microbiomes); Referee for the journals PLOS ONE, Microbial Ecology, Frontiers in Microbiology, Genes, Scientific Reports, Nature Geoscience, eLIFE.
- Memberships** Member of the Italian Genetics Association (AGI)
- Others** Member of the organizing committee and chair of the XII Congress of microbiologists of Serbia MIKROMED REGIO 5, 4-6 April 2024, Belgrade (Serbia)

• PARTICIPATION TO RESEARCH PROJECTS

- 2021-22 Bioinformatic consultant for a third-party commissioned project on agricultural soil microbiome commissioned by the company SICURAL to the ICGEB.
- 2020 Principal investigator - young researcher Starting Grant of the University of Trento (II call – 2019), for a study on Self-DNA inhibition in Bacteria. University of Trento
- 2019-20 Responsible for the experimental procedures - Third-party research project on the effect of Self-DNA on the growth of bacterial pathogens (commissioned by AND BioPharma BV). University of Trento
- 2016-18 Co-applicant - CARITRO Foundation – Valorizzazione cosmeceutica delle comunità microbiche dell’acqua delle Terme di Comano (Ricerca e Sviluppo Economico 2016). University of Trento.
- 2015 Contract researcher - Project GENHORT – Valorizzazione di produzioni ortive campane con strumenti di genomica avanzata (MIUR PON02_00395_3215002). University of Naples “Federico II”.
- 2012-14 PhD student - Dr. Erich Ritter und Dr. Herzog Sellenberg-Stiftung, Stifterverband fuer die Deutsche Wissenschaft - Retreating glaciers and emerging ecosystems in the southern alps, UniBz.
- 2009-11 Fellowship holder - Project BarFrost – Reconstruction of past ecosystems by barcoding DNA preserved in permafrost (project code 191627/V40). University of Oslo.
- 2008 Fellowship holder - Project GenoPOm – Laboratorio di genomica per l’innovazione e la valorizzazione della filiera di pomodoro DM. 17732. University of Naples “Federico II”

• COLLABORATIONS

- Prof. Olivier Jousson, University of Trento, Italy.
- Prof. Stefano Mazzoleni and Dr. Fabrizio Cartenì, University of Naples, Italy.

- Prof. Maria Luisa Chiusano and Dr. Luca Ambrosino, Stazione Zoologica Anton Dohrn, Naples, Italy
- Dr. Peter Jens, AND BioPharma BV, Berkel en Rodenrijs, The Netherlands.
- Prof. Sanja Baric and Dr. Stefano Benini, Free University of Bozen-Bolzano, Italy.
- Prof. Vincenzo Michele Sellitto, Banat University of Timisoara, Romania.
- Prof. Martina Bregant and Dr. Fabio Lapenta, University of Nova Gorica, Slovenia.
- Dr. Silvano Piazza and Dr. Stefano Cacciatore, ICGEB, Italy and South Africa.
- Prof. Isabella Panfoli, University of Genova, Italy.
- Prof. Ivica Dimkic, University of Belgrade, Serbia.
- Dr. Rita Rahmeh, Kuwait Institute for Scientific Research, Kuwait City, Kuwait.
- Prof. Giovanni Di Bonaventura, University of Chieti and Pescara, Italy.
- Expert evaluator for research proposals at the ICGEB and at Dutch Research Council (NWO).

• GRANTS AND AWARDS RECEIVED

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| 2023 | Ricerca e Sviluppo Economico, CARIVERONA Foundation, Exploration of the microbiome from the chestnut canker to improve the biological control of the disease in Veneto region (PI, 78.300 €) |
| 2021-22 | Commissioned training – The Free University of Bozen-Bolzano has commissioned a training program for the PhD students at ICGEB (Contact person with the University of Bolzano, 15.000 €). |
| 2019-20 | Bando di Ateneo “Starting Grant Giovani Ricercatori” 2019 – University of Trento, career-development grant (Principal Investigator, 10.000 €). |
| 2018-20 | Commissioned project BIOPHARMA BV for a study on the effect of Self-DNA on bacterial growth (Contact person and responsible for experimental procedures, PI Prof. Olivier Jousson, 75.000 €). |
| 2016-18 | Caritro Ricerca e Sviluppo Economico, Valorizzazione cosmeceutica delle comunità microbiche dell’acqua delle Terme di Comano (Co-applicant, PI Prof. Olivier Jousson, 75.000 €). |
| 2012 | Best poster award at the third national conference of the Italian Society of Agricultural, Environmental and food microbiology (SIMTREA). |

• OTHER ACTIVITIES

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| 2019 | Participation to the organizing committee for the decennial of CIBIO, to celebrate 10 years of biomedical research in Trentino. |
| 2017 | Alfonso Esposito and Olivier Jousson. “Fibrosi cistica e infezioni batteriche: l’approccio genomico” Press release of the University of Trento. |
| 2015 | Member of the association for correct scientific communication Ragionevolmente (www.ragionevolmente.it). |
| 2014 | Chair for the educational event “La bufala è servita: Tra scienza e pseudoscienza” organized by the association Ragionevolmente at the European Academy (EURAC) in Bozen, Italy. |
| 2013 | Participation to the European researchers’ night, at the Faculty of Science and Technology of the Free University of Bozen-Bolzano, Italy. |

• BOOK CHAPTERS

1. **Alfonso Esposito*** and Silvano Piazza. "Broad Genome Sequencing of Environmental and Clinical Strains and Genotyping." (2023). In *Pseudomonas aeruginosa: Methods and Protocols*. New York, NY: Springer US. 171-181. ***Corresponding author**
2. **Alfonso Esposito*** and Luca Ambrosino. "Teoria e tecniche di bioinformatica: l’analisi del microbioma." (2023). In *MICROBIOMA - One Health: dal suolo al benessere dell’Uomo. Edagricole - New Business Media, Milano (It)*. 289-298. ***Corresponding author**

• MOST RELEVANT PUBLICATIONS

- h-index: 18
- citations: 1273

1. Irene Bianconi, **Alfonso Esposito**, Silvano Piazza, Elena Piffer, Elisabetta Pagani, Olivier Jousson. Protein functional domain analysis enhances genotype–phenotype associations in comparative genomic studies of *Pseudomonas aeruginosa* (2025) *Frontiers in Microbiology*, 16, DOI: /10.3389/fmicb.2025.1569118
IF: 5.2; cit: -
Quartiles: Microbiology (**Q1**), Microbiology – medical (**Q1**)
2. Sharda Bharti, Lavinia Carlini, **Alfonso Esposito**, Stefano Benini. Bioinformatics and modelling studies of FhuD, the periplasmic siderophore binding protein from the plant pathogen *Erwinia amylovora*. (2025) *PLOS ONE*, 20(7): e0326667, DOI: 10.1371/journal.pone.0278456

- IF: 3.7**; cit: 4
Quartiles: Multidisciplinary (Q1).
3. Denise Khouri Chalouhi, Iris Bertani, **Alfonso Esposito**, Silvano Piazza, Cristina Bez, Vittorio Venturi. An in Planta Enrichment Route to Identify Bacterial Root Endophytes. *Environmental Microbiology Reports*, 17(3), e70136, DOI: 10.1111/1758-2229.70136
IF: 2.7; cit: -
Quartiles: Agricultral and Biological Science (Q1), Ecology, Evolution, Behavior and Taxonomy (Q1)
 4. Cervoni, Matteo, Antonio Maria Ferriero, Alessandra Lo Sciuto, Francesca Guidi, Naida Babić Jordamović, Silvano Piazza, Olivier Jousson, **Alfonso Esposito**, and Francesco Imperi. The genetic background and culture medium only marginally affect the in vitro evolution of *Pseudomonas aeruginosa* toward colistin resistance. (2025) *MDPI Antibiotics*, 14(6): 601, DOI: 10.3390/antibiotics14060601
IF: 6.0; cit: 2
Quartiles: Microbiology medical(Q1), Biochemistry (Q1).
 5. Elisabetta de Alteriis, Guido Incerti, Fabrizio Carteni, Maria Luisa Chiusano, Chiara Colantuono, Emanuela Palomba, Pasquale Termolino, Francesco Monticolo, **Alfonso Esposito**, Giuliano Bonanomi, Rosanna Capparelli, Marco Iannaccone, Alessandro Foscari, Carmine Landi, Palma Parascandola, Massimo Sanchez, Valentina Tirelli, Bruna de Falco, Virginia Lanzotti and Stefano Mazzoleni. Extracellular DNA secreted in yeast cultures is metabolism-specific and inhibits cell proliferation. (2023) *Microbial Cell* 10:12, 277 – 295, DOI: 10.15698/mic2023.12810
IF 4.6; cit: -
Quartiles: Applied Microbiology and Biotechnology (Q1), Biochemistry, Genetics and Molecular Biology - miscellaneous (Q1), Cell Biology (Q2), Genetics (Q2), Immunology and Microbiology - miscellaneous (Q2), Microbiology (Q2), Molecular Biology (Q2), Parasitology (Q1), Virology (Q2).
 6. Lavinia Carlini, **Alfonso Esposito***, Luca Ambrosino, Sharda Bharti, Luca Mauro Invernizzi, Silvano Piazza, Stefano Benini. The ams proteins and the amylovoran biosynthetic pathway: an extensive bioinformatic study. (2023) *Journal of Plant Pathology*, 1-14, DOI: 10.1007/s42161-023-01532-9
IF 2.2; cit: -
Quartiles: Plant Science (Q2).
 7. Davide Borroni, Chiara Bonzano, José-Maria Sánchez-Gonzales, Rahul Rachwani-Anil, Francisco Zamorano-Martín, Jorge Perez-Nieves, Carlo Enrico Traverso, Maria Garcia Lorente, Marina Rodriguez-Calvo-de-Mora, **Alfonso Esposito**, Fernando Godin and Carlos Rocha-de-Lossada. Shotgun metagenomic sequencing in culture negative microbial keratitis. (2023) *European Journal of Ophtalmology*, DOI:10.1177/11206721221149077
IF: 1.7; cit: 6
Quartiles: Medicine – miscellaneous (Q1), Ophtalmology (Q1).
 8. Cristina Bez, **Alfonso Esposito***, Samson Musonerimana, Thu Ha Nguyen, Lucio Navarro-Escalante, Kassahun Tesfaye, Luca Turello, Luciano Navarini, Silvano Piazza, Vittorio Venturi. Comparative study of the rhizosphere microbiome of *Coffea arabica* grown in different countries reveals a small set of prevalent and keystone taxa. (2023) *Rhizosphere* 25:100652, DOI: 10.1016/j.rhisp.2022.100652. ***Shared-first authorship**
IF: 3.7; cit: 2
Quartiles: Agronomy and Crop Science (Q1), Plant Science (Q1), Soil Science (Q2).
 9. Rita Rahmeh, Abrar Akbar, Husam Alomirah, Mohamed Kishk, Abdulaziz Al-Ateeqi, Anisha Shajan, Thnayan Alonaizi, **Alfonso Esposito**. Assessment of mastitis in camel using high-throughput sequencing. (2022) *PLOS ONE*, 17:e0278456, DOI: 10.1371/journal.pone.0278456
IF: 3.7; cit: 4
Quartiles: Multidisciplinary (Q1).
 10. Lavinia Carlini, Gabriele Tancreda, Valeria Iobbi, Federico Caicci, Silvia Bruno, **Alfonso Esposito**, Daniela Calzia, Stefano Benini, Angela Bisio, Lucia Manni, Anna Schito, Carlo Enrico Traverso, Silvia Ravera, Isabella Panfoli. The Flavone Cirsiliol from *Salvia x jamensis* binds the F1 moiety of ATP- synthase modulating free radical production. (2022) *MDPI Cells*, 11(19):3169, DOI: 10.3390/cells11193169
IF: 6.0; cit: 7
Quartiles: Biochemistry, Genetics and Molecular Biology – miscellaneous (Q1).
 11. Renato Pedron, **Alfonso Esposito***, William Cozza, Massimo Paolazzi, Mario Cristofolini, Nicola Segata, Olivier Jousson. Microbiome characterization of alpine water springs for human consumption reveals site- and usage-

- specific microbial signatures (2022) *Frontiers in Microbiology*, 13, 946460, DOI: 10.3389/fmicb.2022.946460.
***Shared-first authorship**
IF: 5.2; cit: **4**
 Quartiles: Microbiology (**Q1**), Microbiology – medical (**Q1**).
12. Isabella Panfoli and **Alfonso Esposito**. Beneficial effect of polyphenols in covid-19 and the ectopic F1F0-ATP synthase: is there a link? (2022) *Journal of Cellular Biochemistry*, 123(8):1281-1284, DOI: 10.1002/jcb.30306
IF 4.0; cit: **3**
 Quartiles: Biochemistry (**Q2**), Cell Biology (**Q3**), Molecular Biology (**Q3**).
 13. Rita Rahmeh, Abrar Akbar, Husam Alomirah, Mohamed Kishk, Abdulaziz Al-Ateeqi, Salah Al-Milhm, Anisha Shajan, Batool Akbar, Shafeah Al-Merri, Mohammad Alotaibi, **Alfonso Esposito**. Camel milk microbiota: a culture-independent assessment. (2022) *Food Research International*, 159,111629, DOI: 10.1016/j.foodres.2022.111629
IF: 8.1; cit: **6**
 Quartiles: Food Science (**Q1**).
 14. Caterina Ciani, Anna Pérez-Ràfols, Isabelle Bonomo, Mariachiara Micaelli, **Alfonso Esposito**, Chiara Zucal, Romina Belli, Vito Giuseppe D'Agostino, Irene Bianconi, Vito Calderone, Linda Cerofolini, Orietta Massidda, Michael Bernard Whalen, Marco Fragai, Alessandro Provenzani. Identification and Characterization of an RRM-Containing, RNA Binding Protein in *Acinetobacter baumannii*. (2022) *Biomolecules*, 12(7), 922, DOI: 10.3390/biom12070922
IF: 5.5, cit: -
 Quartiles: Biochemistry (**Q1**), Molecular Biology (**Q2**).
 15. Federica Piergiacomo, Luigimaria Borruso, **Alfonso Esposito**, Stefan Zerbe, Lorenzo Brusetti. Geochemical drivers of bacterial community diversity in watershed sediments of Heihe River (Northern China) (2022) *AIMS Microbiology*, 14(12), 1948, DOI: 10.3390/w14121948
IF: 4.8; cit: **1**
 Quartiles: Microbiology (**Q2**), Microbiology – medical (**Q2**).
 16. Renato Pedron, Elena Luchi, Marta Acin Albiac, Raffaella Di Cagno, Daniele Catorci, **Alfonso Esposito**, Irene Bianconi, Davide Losa, Mario Cristofolini, Graziano Guella, Olivier Jousson. *Mesorhizobium comanense* sp. nov., isolated from groundwater (2021) *International Journal of Systematic and Evolutionary Microbiology*, 71:005131, DOI: 10.1099/ijsem.0.005131
IF: 2.5 (current **2.8**); cit: **4**
 Quartiles: Ecology, Evolution, Behavior and Systematics (**Q1**), Microbiology (**Q2**), Medicine – miscellaneous (**Q2**).
 17. **Alfonso Esposito**, Luca Ambrosino, Silvano Piazza, Salvatore D'Aniello, Maria Luisa Chiusano, Annamaria Locascio. Evolutionary adaptation of the thyroid hormone signalling toolkit in chordates (2021) *MDPI Cells*, 10(12), 3391, DOI: 10.3390/cells10123391
IF: 6.6 (current **6.0**); cit: **3**
 Quartiles: Biochemistry, Genetics and Molecular Biology – miscellaneous (**Q1**).
 18. Cristina Bez, **Alfonso Esposito**, Hang Dinh Thuy, Minh Nguyen Hong, Giampiero Valè, Danilo Licastro, Iris Bertani, Silvano Piazza and Vittorio Venturi. The rice foot rot pathogen *Dickeya zea* alters the in-field plant microbiome (2021) *Environmental microbiology*, DOI: 10.1111/1462-2920.15726
IF: 5.5 (current **5.1**), cit: **10**
 Quartiles: Ecology, Evolution, Behavior and Systematics (**Q1**), Microbiology (**Q1**).
 19. Maria Luisa Chiusano, Guido Incerti, Chiara Colantuono, Pasquale Termolino, Emanuela Palomba, Francesco Monticolo, Giovanna Benvenuto, Alessandro Foscari, **Alfonso Esposito**, Lucia Marti, Giulia de Lorenzo, Isaac Vega-Muñoz, Martin Heil, Fabrizio Carteni, Giuliano Bonanomi and Stefano Mazzoleni. *Arabidopsis thaliana* response to extracellular DNA: self versus nonself exposure (2021) *Plants*, 10(8):1744, DOI: 10.3390/plants10081744
IF: 3.9 (current **4.5**); cit: **26**
 Quartiles: Ecology (**Q1**), Ecology, Evolution, Behavior and Systematics (**Q1**), Plant Science (**Q1**).
 20. Silvia Ravera, **Alfonso Esposito**, Paolo Degan, Federico Caicci, Lucia Manni, Anna Liguori, Angela Bisio, Valeria Iobbi, Anna Schito, Carlo Traverso, Isabella Panfoli. The diterpene manool extracted from *Salvia*

tingitana lowers free radical production in the retina by inhibiting the row outer segment ectopic F₁F₀ ATP synthase (2021) Cell Biochemistry and Function, 1-8, DOI: 10.1002/cbf.3618

IF: 2.6 (current **3.6**); cit: **5**

Quartiles: Biochemistry (**Q2**), Clinical Biochemistry (**Q2**), Medicine – miscellaneous (**Q2**), Cell Biology (**Q3**).

21. Silvia Ravera, **Alfonso Esposito**, Paolo Degan, Federico Caicci, Daniela Calzia, Eleonora Perrotta, Lucia Manni, Angela Bisio, Valeria Iobbi, Anna Schito, Carlo Enrico Traverso, Isabella Panfoli. Sclareol modulates free radical production in the retinal rod outer segment by inhibiting the ectopic f₁-f₀-atp synthase (2020) Free Radical Biology and Medicine, 160:368-375, DOI /10.1016/j.freeradbiomed.2020.08.014
IF: 6.2 (current **7.4**); cit: **11**
Quartiles: Biochemistry (**Q1**), Physiology (**Q1**).
22. Federica Antonelli, **Alfonso Esposito**, Giulia Galotta, Barbara Davidde Petriaggi, Silvano Piazza, Manuela Romagnoli, Francesca Guerrieri. Microbiota in Waterlogged Archaeological Wood: Use of Next-Generation Sequencing to Evaluate the Risk of Biodegradation (2020) Applied Science, 10:4636, DOI: 10.3390/app10134636
IF: 1.7 (current **2.7**), cit: **16**
Quartiles: Computer Science Applications (**Q3**), Engineering - miscellaneous (**Q2**), Fluid Flow and Transfer processes (**Q2**), Instrumentation (**Q2**), Materials Science – miscellaneous (**Q2**), Process Chemistry and Technology (**Q3**).
23. Federica Antonelli, **Alfonso Esposito**, Ludovica Calvo, Valerio Licursi, Philippe Tisseyre, Sandra Ricci, Manuela Romagnoli, Silvano Piazza, Francesca Guerrieri. Characterization of black patina from the Tiber River embankments using Next-Generation Sequencing (2020) PLOS ONE, 15:e0227639, DOI: 10.1371/journal.pone.0227639
IF: 2.8 (current **3.7**); cit: **16**
Quartiles: Multidisciplinary (**Q1**).
24. **Alfonso Esposito**, Luigimaria Borruso, Jayne Rattray, Lorenzo Brusetti, Engy Ahmed. Taxonomic and functional insights into rock varnish microbiome using shotgun metagenomics (2019) FEMS Microbiology Ecology, 95:12, DOI: 10.1093/femsec/fiz180
IF: 4.1 (current **4.2**); cit: **17**
Quartiles: Applied Microbiology and Biotechnology (**Q1**), Ecology (**Q1**), Microbiology (**Q2**).
25. Luca Ambrosino, Michael Tangherlini, Chiara Colantuono, **Alfonso Esposito**, Mara Sangiovanni, Marco Miralto, Clementina Sansone, Maria Luisa Chiusano. Bioinformatics for marine product: An overview of resources, bottlenecks, and perspectives (2019) Marine Drugs, 17:10, DOI: 10.3390/md17100576
IF: 3.8 (current **5.4**); cit: **31**
Quartiles: Drug Discovery (**Q2**), Pharmaceutical Science (**Q1**), Pharmacology, Toxicology and Pharmaceutics – miscellaneous (**Q1**).
26. **Alfonso Esposito**, Sabrina Tamburini, Luca Triboli, Luca Ambrosino, Maria Luisa Chiusano, Olivier Jousson. Insights into the genome structure of four acetogenic bacteria with specific reference to the Wood-Ljungdahl pathway (2019) MicrobiologyOpen, e938, DOI: 10.1002/mbo3.938
IF: 2.7 (current **3.4**); cit: **14**
Quartiles: Microbiology (**Q2**).
27. Davide Borroni, Vito Romano, Stephen B Kaye, Tobi Sommerville, Luca Napoli, Adriano Fasolo, Paola Gallon, Diego Ponzin, **Alfonso Esposito**, Stefano Ferrari. Metagenomics in ophthalmology: current findings and future perspectives (2019) BMJ Open Ophthalmology, DOI: 10.1136/bmjophth-2018-000248
IF (Current): 2.4; cit: **53**
Quartiles: Medicine – miscellaneous (**Q1**).
28. Ivan Polsinelli, Luigimaria Borruso, Rosanna Caliandro, Luca Triboli, **Alfonso Esposito***, Stefano Benini. A genome-wide analysis of desferrioxamine mediated iron uptake in *Erwinia* spp. Reveals genes exclusive of the Rosaceae infecting strains (2019) Scientific Reports, 9:2818, DOI: 10.1038/s41598-019-39787-x; ***Co-corresponding author**
IF: 4.6 (current **4.6**); cit: **9**
Quartiles: Multidisciplinary (**Q1**).
29. Renato Pedron, **Alfonso Esposito***, Irene Bianconi, Edoardo Pasolli, Adrian Tett, Francesco Asnicar, Mario Cristofolini, Nicola Segata, Olivier Jousson. Genomic and metagenomics insights into the microbial community

- of a thermal spring (2019) *Microbiome*, 7:8, DOI: 10.1186/s40168-019-0625-6, ***Shared-first authorship**
IF: 9.1 (current **15.5**); cit: **46**
 Quartiles: Microbiology (**Q1**), Microbiology – medical (**Q1**).
30. Irene Bianconi, Silvia D'Arcangelo, **Alfonso Esposito**, Mattia Benedet, Elena Piffer, Grazia Dinnella, Paola Gualdi, Michele Schinella, Ermanno Baldo, Claudio Donati, Olivier Jousson. Persistence and microevolution of *Pseudomonas aeruginosa* in the cystic fibrosis lung: a single-patient longitudinal genomic study (2019) *Frontiers in Microbiology*, 8:1590, DOI:10.3389/fmicb.2018.03242
IF: 4.2 (current **5.2**); cit: **46**
 Quartiles: Microbiology (**Q1**), Microbiology – medical (**Q1**).
31. Filippo Pacchioni, **Alfonso Esposito***, Elisabetta Giacobazzi, Clotilde Bettua, Paolo Struffi, Olivier Jousson. Air and waterborne microbiome of a pharmaceutical plant provide insight on spatiotemporal variation and community resilience after disturbance (2018) *BMC microbiology*, 18:124, DOI: 10.1186/s12866-018-1267-8, ***Shared-first authorship**
IF: 2.8 (current **4.2**), cit: **5**
 Quartiles: Microbiology (**Q2**), Microbiology – medical (**Q2**).
32. Fabrizio Cartenì, Tushar C. Sarker, Guliano Bonanomi, Gaspare Cesarano, **Alfonso Esposito**, Guido Incerti, Stefano Mazzoleni, Virginia Lanzotti, Francesco Gianino. Linking plant phytochemistry to soil processes and functions: the usefulness of ¹³C NMR spectroscopy (2018) *Phytochemistry Reviews*, DOI: 10.1007/s11101-018-9560-6
IF: 3.4 (current **7.7**); cit: **15**
 Quartiles: Biotechnology (**Q1**), Plant Science (**Q1**).
33. **Alfonso Esposito**, Arianna Pompilio, Clotilde Bettua, Valentina Crocetta, Elisabetta Giacobazzi, Ersilia Fiscarelli, Olivier Jousson, Giovanni Di Bonaventura. Evolution of *Stenotrophomonas maltophilia* in Cystic Fibrosis Lung over Chronic Infection: A Genomic and Phenotypic Population Study (2017) *Frontiers in Microbiology*, DOI: 10.3389/fmicb.2017.01590
IF: 4.2 (current **5.2**); cit: **89**
 Quartiles: Microbiology (**Q1**), Microbiology – medical (**Q1**).
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Place and Date

Trento, 26/02/2026

Signature



Alfonso Esposito consents the use of his personal data in compliance with the provisions of GDPR decree (EU) 2016/679