

Irene Stefanini

Curriculum vitae

Personal Info

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Google scholar: <https://scholar.google.it/citations?user=WgLyxbQAAAAJ&hl=it&oi=ao>

[laboratory website](#)

Professional Experience

Researcher

Oct 2019-today: Researcher at the University of Turin, Turin, Italy

Independent Research Fellow

Sept 2016-Sept 2019: Senior Independent Research Fellow at University of Warwick, Coventry, UK

Postdoctoral

2016: Consultant at Fondazione Edmund Mach, San Michele all'Adige, Trento, Italy

2013-2016: Post Doc at Fondazione Edmund Mach, San Michele all'Adige, Trento, Italy

2012-2013: Post Doc at University of Florence, Florence, Italy

Education

higher education

- 2009-2012. PhD Department of Pharmacology, University of Florence, Florence, Italy. Qualification result: excellent.
- 2006-2008 Master Degree in Biotechnology, Department of Pharmacology and Department of Organic Chemistry, University of Florence, Florence, Italy. Qualification result: Summa cum Laude (110/110 cum Laude)
- 2002-2006 Bachelor Degree in Biotechnology, Department of Biology, University of Florence, Florence, Italy. Qualification result: 108/110.

Secondary education

- 1997-2002 Italian Diploma, Liceo Scientifico Piero Gobetti, Bagno a Ripoli, Florence, Italy. Qualification result: 100/100.

Attended courses

- Graduate course in Mathematics and Biology – Erasmus Intensive program – July 1st-15th 2009, Florence, Italy;
- SLING Bioinformatics Roadshow- 7th-9th April 2010, University of Florence, Italy;
- Diversity in the workplace training – November 2016, University of Warwick, UK;
- Recruitment and selection training – November 2016, University of Warwick, UK;
- SSC2 Project supervisor training – March 2017, University of Warwick, UK

Publications

1. Publications in peer-reviewed scientific journals:

(*=contributed equally to the study)

1. 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. Accepted;
2. Ramazzotti M.*, **Stefanini I.***, Di Paola M.*, De Filippo C., Rizzetto L., Berná L., Dapporto L., Rivero D., Tocci N., Weil T., Lenucci M.S., Lionetti P., Cavalieri D. (2019) *Population genomics reveals evolution and variation of Saccharomyces cerevisiae in the human and insects gut*. Environ Microbiol. 21(1), 50–71. doi: 10.1111/1462-2920.14422;
3. **Stefanini I.** and Cavalieri D. (2018) *Metagenomic approaches to investigate the contribution of the vineyard environment to the quality of wine fermentation: potentials and difficulties*. (Review) Frontiers in microbiology, 9: 991. Doi: 10.3389/fmicb.2018.00991;
4. **Stefanini I.**, Rizzetto L., Rivero D., Carbonell S., Gut M., Heath S., Gut I.G., Trabocchi A., Guarna A., Ben Ghazzi N., Bowyer P., Kapushesky M., Cavalieri D. (2018) *Deciphering the mechanism of action of 089, a compound impairing the fungal cell cycle*. Scientific Reports, 8:5964 Doi:10.1038/s41598-018-24341-y; PMID= 29654251;
5. **Stefanini I.** (2018) *Yeast-insect associations: it takes guts*. (Review) Yeast, 35:315-330. Doi: 10.1002/yea.3309; PMID: 29363168;
6. **Stefanini I.**, Albanese D., Sordo M., Legras J.L., de Filippo C., Cavalieri D., Donati C. (2017) SaccharomycesIdentifier, SID: strain-level analysis of *Saccharomyces cerevisiae* populations by using microsatellite meta-patterns. Scientific Reports, 7:15343. Doi: 10.1038/s41598-017-15729-3; PMID: 29127392;
7. Khomenko I., **Stefanini I.**, Cappellin L., Cappelletti V., Franceschi P., Cavalieri D., Märk T.D., Biasioli F. (2017) *Non-invasive real time monitoring of yeast volatilome by PTR-ToF-MS*, Metabolomics. 2017;13(10):118. Doi: 10.1007/s11306-017-1259-y; PMID: 28932179;
8. Buschow S.I., Ramazzotti M., Reinieren-Beeren I.M.J., Heinzerling L.M., Westdorp H., **Stefanini I.**, Beltrame L., Hato S.V., Ellebæk E., Gross S., Nguyen V.A., Weinlich G., Ragoussis J., Baban D., Schuler-Thurner B., Svane I.M., Romani N., Austyn J.M., De Vries I.J.M., Schuler G., Cavalieri D. and Figdor C.G. (2017) *Survival of metastatic melanoma patients after dendritic cell vaccination correlates with expression of leukocyte phosphatidylethanolamine-binding protein 1 / Raf Kinase inhibitory protein*, Oncotarget, 8:67439-67456. doi: 10.18632/oncotarget.18698; PMID: 28978044;
9. Brilli M., Trabocchi A., Weil T., Cavalieri D., **Stefanini I.** (2017) *Relations between Effects and Structure of Small Bicyclic Molecules on the Complex Model System Saccharomyces cerevisiae*, Front. Pharmacol., 8:170. Doi: 10.3389/fphar.2017.00170; PMID: 28424620;
10. **Stefanini I.**, Carlin S., Tocci N., Albanese D., Donati C., Franceschi P., Paris M., Zenato A., Tempesta S., Bronzato A., Vrhovsek U., Mattivi F., Cavalieri D., (2017) *Core Microbiota and Metabolome of Vitis vinifera L. cv. Corvina Grapes and Musts*, Front. Microbiol., 8: 457. doi: 10.3389/fmicb.2017.00457; PMID: 28377754;
11. Qvirist L.A., De Filippo C., Strati F., **Stefanini I.**, Sordo M., Andlid T., Felis G.E., Mattarelli P., Cavalieri D. (2016) *Isolation, identification and characterization of yeasts from fermented goat milk of the Yaghnob Valley in Tajikistan*, Front Microbiol., 7:1690. Doi: 10.3389/fmicb.2016.01690; PMID: 27857705;

12. Strati F., Di Paola M., **Stefanini I.**, Albanese D., Rizzetto L., Lionetti P., Calabrò A., Jousson O., Donati C., Cavalieri D., De Filippo C. (2016) *Age and Gender Affect the Composition of Fungal Population of the Human Gastrointestinal Tract*, *Front Microbiol.*, 7:1227. Doi: 10.3389/fmicb.2016.01227; PMID: 27536299;
13. Strati F., Cavalieri D., Albanese D., De Felice C., Donati C., Hayek J., Jousson O., Leoncini S., Pindo M., Renzi D., Rizzetto L., **Stefanini I.**, Calabrò A., De Filippo C. (2016) *Altered gut microbiota in Rett syndrome*. *Microbiome.*; 4(1):41. Doi: 10.1186/s40168-016-0185-y; PMID: 27473171;
14. Dapporto L.*, **Stefanini I.***, Rivero D., Polsinelli M., Capretti P., De Marchi P., Viola R., Turillazzi S., Cavalieri D. (2016) *Social wasp intestines host the local phenotypic variability of Saccharomyces cerevisiae strains*, *Yeast*, 33(7):277-87. Doi: 10.1002/yea.3173; PMID: 27168222;
15. **Stefanini I.***, Dapporto L.*, Berná L., Polsinelli M., Turillazzi S., Cavalieri D. (2016) *Social wasps are Saccharomyces mating nest*, *Proc Natl Acad Sci U S A.* **113**(8):2247-51. Doi: 10.1073/pnas.1516453113; PMID: 26787874;
16. **Stefanini I.**, Albanese D., Cavazza A., Franciosi E., De Filippo C., Donati C., Cavalieri D. (2016) *Dynamic changes in microbiota and mycobiota during spontaneous "Vino Santo Trentino" fermentation*. *Microbial Biotechnology*, 9(2): 195-208. Doi: 10.1111/1751-7915.12337; PMID: 26780037;
17. Rivero D., Berná L., **Stefanini I.**, Baruffini E., Bergerat A., Csikász-Nagy A., De Filippo C., Cavalieri D. (2015) *Hsp12p and PAU genes are involved in ecological interactions between natural yeast strains*. *Environ Microbiol.* **17**: 3069-3081. Doi: 10.1111/1462-2920.12950; PMID: 26079802;
18. De Filippo C. , Di Paola M., **Stefanini I.**, Rizzetto L., Berná L., Ramazzotti M., Dapporto L., Rivero D., Gut I.G., Gut M., Bayés M., Legras J.L., Viola R., Massi-Benedetti C., De Luca A., Romani L., Lionetti P., Cavalieri D. (2014) *Population genomics of Saccharomyces cerevisiae human isolates: passengers, colonizers, invaders*. *BioRxiv*. Doi: 10.1101/001891;
19. **Stefanini I.***, Dapporto L.*, Legras J-L., Calabretta A., Di Paola M., De Filippo C., Viola R., Capretti P., Polsinelli M., Turillazzi S., Cavalieri D. (2012) *Role of social wasps in Saccharomyces cerevisiae ecology and evolution*. *Proc Natl Acad Sci U S A.*; 109(33):13398-403. doi: 10.1073/pnas.1208362109. Epub 2012 Jul 30. Doi: PMID: 22847440.
20. Ramazzotti M., Berná L., **Stefanini I.**, Cavalieri D. (2012) *A computational pipeline to discover highly phylogenetically informative genes in sequenced genomes: application to Saccharomyces cerevisiae natural strains*. *Nucleic Acids Res.*; 40(9):3834-48. Doi: 10.1093/nar/gks005; PMID: 22266652;
21. Trabocchi A., **Stefanini I.**, Morvillo M., Ciofi L., Cavalieri D., Guarna A. (2010) *Chemical genetics approach to identify new small molecule modulators of cell growth by phenotypic screening of Saccharomyces cerevisiae strains with a library of morpholine-derived compounds*. *Org Biomol Chem*; 8(24):5552-7. Doi: 10.1039/c0ob00357c; PMID: 20949215;
22. Cavalieri D., Rivero D., Beltrame L., Buschow S.I., Calura E., Rizzetto L., Gessani S., Gauzzi M.C., Reith W., Baur A., Bonaiuti R., Brandizi M., De Filippo C., D'Oro U., Draghici S., Dunand-Sauthier I., Gatti E., Granucci F., Gündel M., Kramer M., Kuka M., Lanyi A., Melief C.J., van Montfoort N., Ostuni R., Pierre P., Popovici R., Rajnavolgyi E., Schierer S., Schuler G., Soumelis V., Splendiani A., **Stefanini I.**, Torcia M.G., Zanoni I., Zollinger R., Figdor C.G., Austyn J.M. (2010) *DC-ATLAS: a systems biology resource to dissect receptor specific signal transduction in dendritic cells*. *Immunome Res.*;6:10. Doi: 10.1186/1745-7580-6-10; PMID: 21092113;
23. **Stefanini I.**, Trabocchi A., Marchi E., Guarna A., Cavalieri D. (2010) *A systems biology approach to dissection of the effects of small bicyclic peptidomimetics on a panel of Saccharomyces cerevisiae*

- mutants*; J Biol Chem.; 285(30):23477-85, Doi: 10.1074/jbc.M110.125153; PMID: 20501664;
24. De Filippo C., Pini-Prato A., Mattioli G., Avanzini S., Rapuzzi G., Cavalieri D., Di Paola M., **Stefanini I.**, Ceccherini I., Mavilio D., Lionetti P., Jasonni V. (2010) *Genomics approach to the analysis of bacterial communities dynamics in Hirschsprung's disease-associated enterocolitis: a pilot study*. Pediatric Surgery International; 26: 465-471, Doi: 0.1007/s00383-010-2586-5; PMID: 20306059.

2- Conference proceedings (the name of the presenter is underlined):

- Browne-Marke N., **Stefanini I.** Oral presentation: Identification of genetic variants associated with the response to the antifungal nystatin; Interdisciplinary Health Research in the Midlands -Midlands WT-ISSF symposium -Leicester, UK, 20th September 2018;
- **Stefanini I.**, Dapporto L., Berná L., Polsinelli M., Turillazzi S., Cavalieri D. Oral presentation: Social wasps are mating nests for yeasts; 32nd International Specialized Symposium on Yeasts - Perugia, Italy 13-17 September 2015;
- **Stefanini I.**, Dapporto L., Berná L., Polsinelli M., Turillazzi S., Cavalieri D. Poster: Social wasps are mating nests for yeasts; 27th International Congress on Yeast Genetics and Molecular Biology (ICYGMB) - Levico Terme, Trento, Italy, from 6th to 12th September 2015; proceedings published in *YEAST* 32: S213-214;
- Donati D., **Stefanini I.**, Ramazzotti M., Berná L., Gut I.G., De Filippo C., Cavalieri D. Poster: Comparative Genomics of Natural Fertile Hybrids of *Saccharomyces cerevisiae*, *Saccharomyces bayanus* and *Saccharomyces paradoxus*; 27th International Congress on Yeast Genetics and Molecular Biology (ICYGMB) - Levico Terme, Trento, Italy, from 6th to 12th September 2015; proceedings published in *YEAST* 32: S213-214;
- **Khomenko J.**, **Stefanini I.**, Cappellin L., Franceschi P., Cappelletti V., Biasioli F. Poster: Studying yeast volatolome with Proton-Transfer-Reaction Time-of-Flight Mass; 27th International Congress on Yeast Genetics and Molecular Biology (ICYGMB) - Levico Terme, Trento, Italy, from 6th to 12th September 2015; proceedings published in *YEAST* 32: S213-214;
- **Strati F.**, **Stefanini I.**, Di Paola M., Rizzetto L., Cavalieri D., De Filippo C. Poster: Biodiversity of the human gut mycobiota and its adaptation to the gastrointestinal tract; 27th International Congress on Yeast Genetics and Molecular Biology (ICYGMB) - Levico Terme, Trento, Italy, from 6th to 12th September 2015; proceedings published in *YEAST* 32: S213-214;
- **Di Paola M.**, De Filippo C., **Stefanini I.**, Rizzetto L., Berna L., Ramazzotti M., Dapporto L., Rivero D., Gut I.G., Legras J-L, Tocci N., Lenucci M.S., Romani L., Lionetti P., Cavalieri D. Poster: Population genomics of *Saccharomyces cerevisiae* human isolates reveals adaptation to the gastrointestinal tract; 27th International Congress on Yeast Genetics and Molecular Biology (ICYGMB) - Levico Terme, Trento, Italy, from 6th to 12th September 2015; proceedings published in *YEAST* 32: S213-214;
- **Stefanini I.**, Albanese D., Cavazza A., Franciosi E., De Filippo C., Donati C., Cavalieri D. Oral communication: “The microbial dynamics of the fermentation of Vino Santo, a typical sweet wine Trentinian production”; ESF-EMBO Symposium “Symbiomes: systems biology og host-microbiome – Pultusk, Poland, from 5th to 10th June 2015;
- **Stefanini I.**, Dapporto L., Berná L., Polsinelli M., Turillazzi S., Cavalieri D. Oral communication and Poster: “Social wasps are mating nests for yeasts”; EMBO Conference: Experimental Approaches to Evolution and Ecology; Heidelberg, Germany, 12 - 15 October 2014;
- **Csikász-Nagy A.**, Rivero D., Berná L., Baruffini E., **Stefanini I.**, Bergerat A., De Filippo C., Cavalieri D. Oral communication: “Yeast sociobiology in the vineyard”; EMBO Conference: Experimental Approaches to Evolution and Ecology; Heidelberg, Germany, 12 - 15 October 2014;
- **Stefanini I.**, Dapporto L., Bernà L., Polsinelli M., Turillazzi S., Cavalieri D. Oral communication: “Social insect intestines are mating nests for *Saccharomyces cerevisiae*”; 30th meeting of SIMGBM, Ischia, Italy, September 18-21, 2013;
- **Stefanini I.**, Dapporto L., Bernà L., Polsinelli M., Turilazzi S., Cavalieri D. Oral Communication: Social insect intestines are mating nests for *Saccharomyces cerevisiae*; 5th Congress of the Italian Society for Evolutionary Biology, Trento, 28-31 August 2013;

- Cappelletti V., Stefanini I., Bernà L., Ramazzotti M., Cestaro A., Gut I.G., Kapushesky M., Csikász-Nagy A., Cavalieri D., Systems biology approach for the identification of genetic determinants of colony morphology switch in natural *S. cerevisiae* strain; 5th Congress of the Italian Society for Evolutionary Biology, Trento, 28-31 August 2013; proceedings published in *Evolutionary Genomics and Bioinformatics*;
- Rivero D., Bernà L., Baruffini E., **Stefanini I.**, Cavalieri D. The touch of death: Killer Mediated Contact Inhibition and Hsp12p Secretion Differential Fitness in a Community of Grape Yeast Isolates. 5th Congress of the Italian Society for Evolutionary Biology, Trento, 28-31 August 2013;
- **Stefanini I.**, Dapporto L., Legras J-L, Calabretta A., Di Paola M., De Filippo C., Viola R., Polsinelli M., Turillazzi S., Cavalieri D. Oral communication: “Of Yeast, grapes and wasps: *Saccharomyces cerevisiae* ecology revised”; The Power of the small: 14th International Symposium on microbial Ecology, Copenhagen, Denmark, 19-24 August 2012;
- **Stefanini I.**, Legras J-L., Di Paola M., Calabretta A., Dapporto L., De Filippo C., Polsinelli M., Turillazzi S., Cavalieri D. Poster: “Of yeast, grape and wasps, *Saccharomyces cerevisiae* ecology”; 29th SIMGBM NATIONAL MEETING”, Pisa, Centro Congressi CNR, from 21st to 23rd September 2011;
- **Stefanini I.**, Romanelli M.N., Marchi E., Cavalieri D. oral communication: “*Saccharomyces cerevisiae* as a model for analyzing the molecular activity of two cognition modulators” Yeast, an evergreen model system– tribute to P.Slonimsky, Rome, from 22nd September to 25th September 2010;
- Trabocchi A., Stefanini I., Cavalieri D., Guarna A. Poster: “Chemical Genetics using Morpholine Scaffolds on a Panel of *Saccharomyces cerevisiae* Mutants”; 8th Spanish-Italian Symposium on Organic Chemistry (SISOC-VIII), Padova (I), 3rd-6th July 2010;
- **Stefanini I.**, Marchi E., Trabocchi A., Guarna A., Cavalieri D. Poster: “Analysis of Biological Effects of Bicyclic Peptidomimetics Using *Saccharomyces cerevisiae* as a Model”; Biotech.org - chimica organica e biotecnologie: sfide e opportunità, Forte dei Marmi (LU), 20th-23rd May 2009;
- **Stefanini I.**, Marchi E., De Filippo C., Cavalieri D. Poster: “*Yeast as a model in nutritional genomics*”; X Annual Congress FISV 2008, Riva del Garda (TN), from 24th to 27th September 2008

3. Research monographs, chapters in collective volumes and any translations thereof.

- **Stefanini I.**, De Filippo C., Cavalieri D. (2013) *Yeast as a Model in High-Throughput Screening of Small-Molecule Libraries*; ; published in “Diversity-Oriented Synthesis: Basics and Applications in Organic Synthesis, Drug Discovery, and Chemical Biology” Ed. A. Trabocchi, Publisher: Wiley.

Invited presentations

“Where do yeasts hide when not making wine?” - 5th May 2017, as part of the Multidisciplinary seminar series of the Tamas Roska PhD School of the Pazmany Peter Catholic University, Hungary

Research expeditions

5 months research experience – NCMLS, Tumour Immunology Lab., Radboud University, Nijmegen, the Netherlands; prof. Carl G. Figdor, aimed at the development of an in vitro model of human skin

Prizes and Awards

2013- Giovanni Magni Prize: best young researcher's work in the field of microbial genetics

2014- Best poster EMBO Conference: Experimental Approaches to Evolution and Ecology; Heidelberg, Germany, 12 - 15 October 2014; “Social wasps are mating nests for yeasts” I. Stefanini, L. Dapporto, L. Bernà, M. Polsinelli, S. Turillazzi, D. Cavalieri

2014- EMBL Advanced Training Centre Corporate Partnership Programme Fellowship EMBO Conference: Experimental Approaches to Evolution and Ecology; Heidelberg, Germany, 12 - 15 October 2014; “Social wasps are mating nests for yeasts” I. Stefanini, L. Dapporto, L. Berná, M. Polsinelli, S. Turillazzi, D. Cavalieri

2015 – FEMS travel grant to attend the 32nd International Specialized Symposium on Yeasts - Perugia, Italy 13-17 September 2015.

26th July 2018 - “Abilitazione Scientifica Nazionale” in Genetics - Settore Concorsuale 05/11 - II Fascia.

13th September 2018 - “Abilitazione Scientifica Nazionale” in Microbiology - Settore Concorsuale 05/12 - II Fascia.

Grants

Research grants

- Funding body: University of Warwick and Wellcome-Trust; grantholders: Prof. Mohan Balasubramanian and Prof. Andrew McAinsh; title: “Warwick-Wellcome Quantitative Biomedicine Programme”, role in the project: independent research fellow, start date of support: 01/09/2016.
- Funding body: Cantina Zenato (Verona, Italy); grantholder: Prof. Fulvio Mattivi; title: “Metagenomic analysis of Corvina fermentations”; role in the project: external consultant for microbiology and bioinformatics analyses; start date of support: 16/04/2016; end date of support: 16/07/2016.
- Funding body: Autonomous Province of Trento and research office of the Autonomous Province of Trento; grantholders: Prof. Duccio Cavalieri and Dr. Claudio Donati; title: “Integrated Programme Agreement ‘METAFOODLABS’, reference number S116/2012/537723”; role in the project: post-doc; start date of support: 01/02/2013; end date of support: 31/01/2016.
- Funding Body: European Union’s Seventh Framework Programme [FP7/2007-2013]; grantholder: Prof. Duccio Cavalieri; title: HEALTH-2010-242220 (“SYBARIS”); role in the project: PhD student; start date of support: 01/01/2009; end date of support: 01/01/2012.

Other Grants

- the Company of Biologists Scientific Meeting Grant to support the 4th Quantitative Biomedicine Programme symposium “Microbial communities: decoding interactions”, held in Coventry, 4th June 2018 (2,500 £).

- 2018 Wellcome- Warwick QBP (WQBP) Public Engagement Fund Grant to support the Public Engagement event “The miniature World of microbes” held in Kenilworth, 3rd June 2018 (650 £).

Organization of International conferences

4th Warwick-Wellcome Quantitative Biology Programme Symposium: Microbial communities: decoding interactions, 4th June 2018, University of Warwick, Coventry, UK

27th International Congress on Yeast Genetics and Molecular Biology (ICYGMB) - Levico Terme, Trento, Italy, from 6th to 12th September 2015. Member of the Local Organizing Committee.

Outreach activities/public engagement

- “Invisible Cities: The Miniature World of Microbes” - 3rd June 2018. Organization of an one-night event consisting of quick-fire 4 minute presentations by international researchers working in the microbiology field,

followed by discussions with members of the public over pizza and drinks.

- “Porte Aperte alla Fondazione Mach”- 13th April 2014. Organization of interactive activities for the public to show microbial cultures and microbial cells at the microscope.

Teaching

- Seminar “Introduction to emerging techniques”, November 2018, as part of the course MD998 Molecular Biology: Principles and Techniques. Taught to Master Students (MRC-DTP). University of Warwick (UK)

- Seminar “*Where do yeasts hide when not making wine?*” - 5th May 2017, as part of the Multidisciplinary seminar series of the Tamas Roska PhD School of the Pazmany Peter Catholic University (Hungary)

Supervising and mentoring activities

- *Stefano Scansani* – Bachelor thesis and internship in Sciences and technologies of aliments, University of Milano, Italy
- *Michele Paris* – Bachelor thesis and internship in Viticulture, University of Udine and Trento, Italy
- *Guido Mori* – Master internship in Analytic Chemistry, University of Florence, Italy
- *Giulia Verones* – Bachelor thesis and internship in Viticulture, University of Udine and Trento, Italy
- *Emma Southall* – 2018 Interdisciplinary Biomedical Research Summer School student, University of Warwick, Coventry, UK
- *John Cousins* – 2018 Student-Selected Component (SSC2) project- University of Warwick Medical School, Coventry, UK
- *Duha Alkhdar* – PhD candidate, University of Warwick, Coventry, UK

Reviewing activities for journals

- AminoAcids
- BMC Microbiology
- Food Chemistry
- Frontiers in Immunology
- Frontiers in Microbiology
- Microbiology ecology
- Molecular BioSystems
- Molecular Ecology
- PeerJ
- PlosOne
- Scientific Reports
- Yeast