

Curriculum Vitae

PERSONAL DATA

NAME AND SURNAME SANDI ORLIĆ
YEAR AND THE INSTITUTION 2005, UNIVERSITY OF ZAGREB
PHD OBTAINED
ADDRESS PETRINJSKA 85 ZAGREB
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E-MAIL sandi.orlic@irb.hr; sorlic@gmail.com; sorlic@irb.hr
PERSONAL WEB PAGE
NATIONALITY CROATIAN
DATE AND PLACE OF BIRTH 29.01.1976, PULA

WORK EXPERIENCE¹

(CHRONOLOGICALLY*)

DATE (FROM – UNTIL) 10.7.2015 -
INSTITUTION *International Max Planck Research School of Marine Microbiology*
OCCUPATION OR POSITION HELD *Associated Faculty Member*
WORK FIELD *Microbial ecology*

DATE (FROM – UNTIL) 2.04.2010.-
INSTITUTION *Institute RUĐER BOŠKOVIĆ*
OCCUPATION OR POSITION HELD **Scientific associate**
WORK FIELD *Molecular microbial ecology*

DATE (FROM – UNTIL) 1.3.2008 – 1.6.2009.
INSTITUTION *«Cavanilles» Institute for Biodiversity and Evolutionary Biology - University of Valencia*
OCCUPATION OR POSITION HELD **PostDoc**
WORK FIELD **YEAST EVOLUTION**

DATE (FROM – UNTIL) 28.02-28.08. 2007.
INSTITUTION *Katholieke Universiteit Leuven Laboratory for Molecular Cell Biology*
OCCUPATION OR POSITION HELD **PostDoc**
WORK FIELD **YEAST GENETICS**

DATE (FROM – UNTIL) 2007- 2010
INSTITUTION **FACULTY OF AGRICULTURE**
OCCUPATION OR POSITION HELD **ASSISTANT PROFESSOR**
WORK FIELD **FUNCTIONAL ANALYSIS AND YEAST EVOLUTION**

DATE (FROM – UNTIL) 2005-2007
INSTITUTION **FACULTY OF AGRICULTURE**
OCCUPATION OR POSITION HELD **HIGHER ASSISTANT**
WORK FIELD **WINE MICROBIOLOGY AND BIOTECHNOLOGY**

DATE (FROM – UNTIL) 1999-2005
INSTITUTION **ASSISTANT**

^{1,2,3} Please add as many lines as necessary

* All data should be listed chronologically, from newest to oldest

OCCUPATION OR POSITION HELD *FACULTY OF AGRICULTURE*
WORK FIELD *WINE MICROBIOLOGY AND BIOTECHNOLOGY*

EDUCATION²
(CHRONOLOGICALLY)

DATE *2001-2005*
PLACE *ZAGREB*
INSTITUTION *FACULTY OF AGRICULTURE*
TITLE OF QUALIFICATION AWARDED *PHD*
DATE *1999-2001*
PLACE *ZAGREB*
INSTITUTION *FACULTY OF AGRICULTURE*
TITLE OF QUALIFICATION AWARDED *MSc*
DATE *1994-1999*
PLACE *ZAGREB*
INSTITUTION *FACULTY OF AGRICULTURE*
TITLE OF QUALIFICATION AWARDED *BSc*

TRAINING
(CHRONOLOGICALLY)

YEAR *2007*
PLACE *Zagreb*
INSTITUTION *Faculty of Agriculture*
SUBJECTS AND SKILLS COVERED *Analysis of molecular biodiversity*
YEAR *2005*
PLACE *Monza, Italy*
INSTITUTION *Applied Biosystems*
SUBJECTS AND SKILLS COVERED *Course on ABI Prism 7300 (Real time PCR)*
YEAR *2003*
PLACE *Caparica, Lisbon, Portugal*
INSTITUTION *Faculdade de Ciencias e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal*
SUBJECTS AND SKILLS COVERED *van Uden International Advanced Course on "Molecular Ecology, Taxonomy and Identification of Yeasts"*

LANGUAGES

MOTHER TONGUE **CROATIAN**
ENGLISH LANGUAGE **ENGLISH**
SPEAKING **VERY GOOD**
WRITING **VERY GOOD**
READING **VERY GOOD**

OTHER FOREIGN LANGUAGES³

| | | |
|-----------------|------------------|----------------|
| LANGUAGE | | ITALIAN |
| SPEAKING | EXCELLENT | |
| WRITING | EXCELLENT | |
| READING | EXCELLENT | |
| LANGUAGE | | SPANISH |
| SPEAKING | VERY GOOD | |
| WRITING | GOOD | |
| READING | GOOD | |
| LANGUAGE | | GERMAN |
| SPEAKING | GOOD | |
| WRITING | GOOD | |
| READING | GOOD | |

RESEARCH AND OTHER PROJECTS

(CHRONOLOGICALLY; LEADER AND ASSOCIATE; FUNDING SOURCE)

2018- 2022 – Adriareef- Italy Croatia Interreg; collaborator

2017-2018 – Kategorizacija podloge, određivanje elementnog sastava, mikrobiološke zajednice na presušenom slapu ispod vegetacije; NP Krka

17.12.2015-28.01.2016. R/V Sonne UltraPac Expedition; scientist, chief scientist T.Ferdelman MPI, Bremen

2015 – Center of excellence for Science and Technology - Integration of Mediterranean Region (collaborator)

2015-2017 «Phylogentic analysis of the bacterial diversity in the sediment of Boka Kotorska bay» Croatia Montenegro bilateral program (coordinator)

2014-2016 “Investigation of structure and metabolic potential of sponge microbiome” Croatia-China bilateral program (coordinator)

2012-2015 COST action (ES1103) Microbial ecology & earth system: collaborating for insight and success with the new generation of sequencing systems

2012-2013 Temporal and spatial dynamics of prokaryotic communities inhabiting Adriatic solar salterns. Coordinator

2012-2015: Contamination risks to the Adriatic Sea from oil pollution (collaborator) Croatian Science Foundation

2011-2014: Biodiversity and biotechnological characterization of bacteria of the Adriatic Sea; coordinator; Croatian Science Foundation

2011- : Seasonal changes in picoplankton composition in the Northern Adriatic Sea as assessed by CARD-FISH and fingerprinting; DAAD project; coordinator

2009 : PICOADRIF; Adris foundation; collaborator

2009 – “ Barrier in the formation of hybrid *S.cerevisae/S.paradoxus* „– project leader, Croatian – Hungarian project

2008 - “Genetic characterization and comparative genomics of hybrids of the genus *Saccharomyces* of biotechnological importance” – prof. Eladio Barrio, Ministry of Science and Education of Spain; collaborator

2008 – “Caracterización del crecimiento de levaduras vínicas con interés para el sector industrial” Dr. Francisco Noé Arroyo López, Generalitat Valenciana; collaborator

2007- “Functional analysis and molecular characterization of wine yeast”; project leader; Croatian Ministry of Science

2002-2006 - “Characterization of indigenous yeast”; collaborator; Croatian Ministry of Science

2003-2005 - “Microbiological methods in the improvement of Malvazija istarska”; project leader Ministry of Agriculture

2003-2004 - “Sur lie technology”; collaborator, Ministry of Agriculture

2002-2003 - “Deacidification of wine; collaborator, Ministry of Agriculture

2001-2003 - “Wine yeast selection”; collaborator, Ministry of Agriculture

**MENTORSHIP OF DEFENDED DOCTORAL AND MASTER DISSERTATIONS
AND TRAINING OF YOUNG RESEARCHERS AND SCIENTISTS**
(CHRONOLOGICALLY)

January 2017 external evaluator of the PhD thesis of Lucia Campirini (University of Udine): "Characterization and use of food matrices of *Lactobacillus casei* group strains"

15.6.2015. PhD Marino Korlević "In depth analysis of bacterial diversity of the Adriatic Sea"

June 2013. Member of the PhD committee Debbie Andyanto and Marco Vendrame University of Udine (external evaluator)

11.06.2008. PhD mentor of Mario Staver « Quality of Malvazija istrska and indigenous *Saccharomyces cerevisiae* strains"

30.10.2007. MSc mentor of Saša Topolovec «Selection of indigenous yeast isolated from Istra region »

VISITS TO FOREIGN RESEARCH AND EDUCATION INSTITUTIONS
(CHRONOLOGICALLY; ONLY VISITS LONGER THAN 3 MONTHS)

1.03.2008- 1.06.2009. University of Valencia (Spain) «Cavanilles» Institute for Biodiversity and Evolutionary Biology - prof.dr.sc. Eladio Barrio

28.02-28.08. 2007. Katholieke Universiteit Leuven Laboratory for Molecular Cell Biology (Belgium) prof.dr.sc. P. Van Dijck

1.04. – 1.07. 2006. Department of biotechnology – IATA CSIC- Valencia (Spain) – prof.dr.sc. A.Querol

1.11.2003-1.02.2004– Department of Food Science University of Udine (Italy) – prof.dr.sc. G.Comi

AWARDS AND RECOGNITION
(CHRONOLOGICALLY)

Award of the Director of the Ruđer Bošković Institute (2011)

National Annual Science Awards in the field of biotechnical science (for 2003) for the young researchers

Alpe Adria grant – visiting- Department of Food Science, Udine, Italy

FEMS visiting grant – Department of Biotechnology, IATA, Valencia, Spain

FEMS Young Scientist Grant

FEMS Invited Speaker Meeting Grant

ORGANISATIONAL SKILLS AND COMPETENCES
(CHRONOLOGICALLY; ORGANISATIONAL OF HOME AND INTERNATIONAL SCIENCE EVENTS)

2018- member of the Scientific Advisory Board of the 16th SAME (Potsdam, 2019)

2017 - ISME (International Society for Microbial Ecology) Ambassador for Croatia

2015 - President of the Organization Committee of the 15th Symposium of Aquatic Microbial Ecology Zagreb (2017)

2014 – Scientific committee ISSY 31 (International Specialised Symposium on Yeast) Yeast Fermentation: from Genes to Application Aspects; Vipava (9-12.10).

2012 - Ocean Sampling Day (OSD)

2008 – Member of the Scientific Committee of 32nd World Congress of vine and wine 2009, Zagreb

2007 - Member of organization committee of Power of microbes in industry and environment, Zadar, Croatia

2004 - Member of organization committee of Third Croatian Congress on Microbiology, Poreč

MEMBERSHIP IN SCIENCE ORGANISATIONS AND BODIES

(CHRONOLOGICALLY; HOME AND INTERNATIONAL ORGANISATIONS AND BODIES)

Croatian Microbiological Society;
Croatian Society of Biotechnology;
Croatian Society of biochemistry and molecular biology;
European Society of Biotechnology;
American Society of Microbiology
Society for Applied Microbiology

COMMISSIONS, COMMITTEES, BOARDS AND WORK GROUPS

(CHRONOLOGICALLY; HOME AND INTERNATIONAL)

2015 – alternate representative of Republic of Croatia in the JPI «Healthy and Productive Seas and Oceans» Management Board

2013-2014 delagate of the RBI at the European Marine Board

2013 - Advisor for strategic affairs for the general Director of Ruđer Bošković Institute (RBI)

2012 - 2014 Domain Committee Delegate of Earth System Science and Environmental Management in COST-u (European Cooperation in Science and Technology) Representative of Croatia

2012- 2013 memmber of the economical board of IRB

2012- today Borad of Management of the Institute of Agriculture and Tourism

2010- 2013 Member of council of Oceanology at the IRB

2007-2010 REPRESENTATIVE OF CROATIA AT THE OIV (WINE MICROBIOLOGY SECTION)

PAPERS

(CHRONOLOGICALLY; RESEARCH BOOKS, HOME AND INTERNATIONALS RESEARCH JOURNALS,
HOME AND INTERNATIONAL CONFERENCE PROCEEINGS)

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Citation: 1180 (15.05.2019)

Books chapter:

Jokanović, S., Huter, A., **Orlić, S.** (2017): "Bacterial Diversity of Boka Kotorska Bay" in Boka Kotorska Bay Environment . Spinger (Ed)

Grba, S., **Orlić, S.** (2010) Yeast systematics. In Yeast Biotechnology (in Croatian)

Orlić, S., Jeromel, A. (2010) Wine technology. In Yeast Biotechnology (in Croatian)

Comi, G., **Orlić, S.**, Redzepovic, S. (2004): Bacterial starter culture in the production of traditional sausages; Current Studies on Biotechnology Vol. III – Food; 87-92

In preparation:

Korlević, M., Gacesa, R., D. Baranasic, A. Starcevic, J. Diminic, M. Najdek Dragić, Hranueli, J. Zucko. **S. Orlić.** Characterization of genes of alkane-degrading enzymes identify in metagenomic samples from northern Adriatic Sea.

Submitted:

Pjevac, P., Dyksma, S., Goldhammer, T., Mujakić, I., Koblizek, M., Mussman, M., Amann, R., **Orlić, S.**: In situ abundance and carbon fixation activity of distinct anoxygenic phototrophs in a stratified seawater lake; submitted to EM

Papers cited in CC:

1. Reintjes, G., Tegetmeyer, H., Bürgisser, M., **Orlić, S.**, Tews, I., Zubkov, M., Voss, D., Zielinski, O., Quast, C., Gloeckner, O., Amann, R., Ferdelman, T., Fuchs, B.: On site analysis of bacterial communities of the ultra-oligotrophic South Pacific Gyre; accepted in Applied and Environmental Microbiology
2. Hou, L, Hu, A., Zhang, K., **Orlić, S.**, Rashid, A., Yu, C.P.: Decipher the assembly processes of the key ecological assemblages of microbial communities in thirteen full-scale wastewater treatment plants. Accepted in Microbes and Environments
3. Gacesa, R., D. Baranasic, A. Starcevic, J. Diminic, M., Korlević, M. Najdek Dragić, P.F. Long, J. Cullum, D. Hranueli, **S. Orlić**, J. Zucko. (2018): Bioprospecting for genes encoding hydrocarbon-degrading enzymes from metagenomic samples isolated from northern Adriatic Sea sediments; Food Technology and Biotechnology, 56(2): 270-277
4. Mučko, M., Bosak, S., Nakov, T., Ruck, E., **Orlić, S.**, Gligora Udovič, M., Peharec Štefanič, P., Špoljarić, I., Mršić, G., Ljubešić, Z. (2018): Morphological diversity and phylogeny of the diatom genus *Entomoneis* (Bacillariophyta) in marine plankton: six new species from the Adriatic Sea. Journal of Phycology 54 (2): 275-298
5. Feng, G., Sun, W., Zhang, F., **Orlić, S.**, Li, Z. (2018) Functional transcripts indicate phylogenetically diverse active ammonia – scavenging microbiota in sympatric sponges. Marine Biotechnology 2: 131- 143
6. Peris, D., Arias, A., **Orlic, S.**, Belloch, C., Peres-Travez, L., Querol, A., Barrio E. (2017): Mitochondrial introgression suggests extensive ancestral hybridization events among *Saccharomyces* species; Molecular Phylogenetics and Evolution 108:49-60
7. Mejdandžić, M., Bosak, S., **Orlić, S.**, Gligora Udovič, M., Peharec Štefanič, P., Špoljarić, I., Mršić, G., Ljubešić, Z. (2017): *Entomoneis tenera* sp. nov., a new marine planktonic diatom (Entomoneidaceae, Bacillariophyta) from the Adriatic Sea, Phytotaxa 292 (1): 001–018
8. Korlević, M., Šupraha, Z. Ljubešić, J. Henderiks, I. Ciglencečki, J. Dautović, **S. Orlić**. (2016): Bacterial diversity across a strong vertical contrast ecosystem: a salt wedge karstic estuary. Systematic and Applied Microbiology 39: 398-408
9. Bižić-Ionescu, M., Zeder, M., Ionescu, D., **Orlić, S.**, Fuchs, B.M., Grossart, H-P., Amann, R. (2015): Comparison of bacterial communities on limnic vs. coastal marine particles reveals profound differences in colonization. Environmental Microbiology 17(10): 3500-3514 (IF 5,932; 2015; Q1).
10. Korlević, M., J. Zucko, Najdek Dragić, M., Blažina, M., Pustijanac, E., Vojvoda Zeljko, T., R. Gacesa, D. Baranasic, A. Starcevic, J. Diminic, P.F. Long, J. Cullum, D. Hranueli, **S. Orlić**. (2015): Bacterial diversity of polluted surface sediments in northern Adriatic Sea. Systematic and Applied Microbiology 38(3): 189–197. (IF 3,691; 2015; Q1)
11. Korlević, M., Pop Ristova, P., Garić, R., Amann, R., **Orlić, S.** (2015): Bacterial diversity in the South Adriatic Sea during a strong deep winter convection year. Applied and Environmental Microbiology 81(5): 1715-1726 (IF 3,823; 2015; Q1)
12. Pjevac, P., Korlević, M., Berg, J. Bura Nakić, E., Ciglencečki Jusić, I., Amann, R., **Orlić, S.** (2015): Community shift from phototrophic to chemotrophic sulfide oxidation following anoxic holomixis in a stratified seawater lake. Applied and Environmental Microbiology, 81(1): 298-308 (IF 3,823; 2015; Q1)
13. Najdek, M., Paliaga, P., Šilović, T., Batistić, M., Garić, R., Supić, N., Ivančić, I, Ljubomir, S., Jasprica, N., Hrustić. E., Dupčić-Radić, I, Blažina, M., **Orlić, S.** (2014): Picoplankton community structure before, during and after convection event in the offshore waters in the southern Adriatic Sea; Biogeoscience –BG; 11:C 2645- 2659 (IF 3,753; 2013; Q1)
14. Comi, G., Chiesa, L, Pensieri, S., **Orlic, S.**, Iacumin, L. (2013): Evaluation of different methods to prevent *Penicillium nordicum* growth on and ochratoxin A production in

- country-style sausages. *World Mycotoxin Journal*; 6(4): 411-418 (Q2 Food Science, Toxicology, Public Health, Environmental and Occupational Health) (IF 2,380)
15. **Orlić, S.**, Najdek, M., Supić, N., Ivančić, I., Fuks, D., Blažina, M., Šilović, T., Paliaga, P., Godrijan, J., Marić, D. (2013): Structure and variability of microbial community a transect crossing a double gyre structure (north – eastern Adriatic Sea). *Aquatic microbial ecology* 69: 193-203 (Q1 u Applied Microbiology and Biotechnology, Aquatic Science, Ecology) (IF 1,901)
 16. Šilović, T., Balague, V., **Orlić, S.**, Pedrós-Alió C (2012): Picoplankton seasonal variation and community structure in the northeast Adriatic coastal zone. *FEMS microbiology ecology* 82(3):678-691 (Q1 Ecology) (IF 3,563)
 17. Fuks, D., Ivančić, I., Najdek, M., Lučić, D., Njire, J., Godrijan, J., Marić, D., Šilović, T., Paliaga, P., Blažina, M., Precali, R., **Orlić, S.** (2012): Changes in the planktonic community structure related to trophic conditions: the case study of the northern Adriatic Sea. *Journal of Marine Systems*. 96-97: 95-102 (Q1 Aquatic Science, Oceanography) (IF 2,655)
 18. Iacumin, L., Manzano, M., Checchini, F., **Orlić, S.**, Zironi, R., Comi, G. (2012): Influence of specific fermentation conditions on natural microflora of pomace in "Grappa" production. *World journal of microbiology & biotechnology* 28(4): 1747-1759 (Q2 Food Science) (IF 1,262)
 19. **Orlić, S.**, Vojvoda, T., Huić-Babić, K., Arroyo Lopez, N., Jeromel, A., Kozina, B., Iacumin, L., Comi G. Diversity and oenological characterization of indigenous *Saccharomyces cerevisiae* associated with Žilavka grapes. // *World journal of microbiology & biotechnology*. 26 (2010); 1483-1489 (IF 1.214) (Q2 Food Science)
 20. Kozlović, G., Jeromel, A., Maslov, L., Pollnitz, A., **Orlić, S.** Use of acacia barrique barrels – Influence on the quality of Malvazija from Istria wines. // *Food chemistry*. 120 (2010), 3; 698-702 (IF 3.458) (Q1 Food Science)
 21. Ivančić I, Fuks D, Najdek M, Blažina M, Devescovi M, Šilović T, Paliaga P, **Orlić S.** (2010). Long-term changes in heterotrophic prokaryotes abundance and growth characteristics in the northern Adriatic Sea. *Journal of Marine Systems* 82, 206-216. (IF 2.005) (Q1 Aquatic Science, Oceanography)
 22. **Orlić, S.**, Arroyo-Lopez, F. N., Huić-Babić, K., Iacumin, L., Querol, A., Barrio, E. A comparative study of the wine fermentation performance of *Saccharomyces paradoxus* under different nitrogen concentrations and glucose/fructose ratios. *Journal of applied microbiology*. 108 (2010), 1; 73-80 (IF 2.365) (Q1 Agricultural and Biological Sciences; Q2 Applied Microbiology and Biotechnology, Biotechnology, Microbiology)
 23. Carović-Stanko, K., Orlić, S., Politeo, O., Strikić, F., Kolak, I., Miloš, M., Šatović, Z. Composition and Antibacterial Activities of Essential Oils of Seven *Ocimum* Taxa. // *Food Chemistry*. 119 (2010), 1; 196-201 (IF 3.458) (Q1 Food Science)
 24. Arroyo-Lopez, F. N., **Orlic, S.**, Querol, A., Barrio, E. Effects of temperature, pH and sugar concentration on the growth parameters of *Saccharomyces cerevisiae*, *S. kudriavzevii* and their interspecific hybrid. *International Journal of Food Microbiology* (IF 2.581) **131** (2009), 2-3; 120-127. (Q1 Food Science)
 25. Iacumin, L., Cecchini, F., Manzano, M., Osualdini, M., Boscolo, D., **Orlic, S.**, Comi, G. (2009): Description of the Microflora of Sourdough by Culture Dependent and Culture Independent Methods. *Food Microbiology* 26 (2): 128-135 (IF 2.039).
 26. Iacumin, L., Chiesa, L., Boscolo, D., Manzano, M., Cantoni, C., **Orlic, S.**, Comi, G. (2009): Moulds and Ochratoxin A on surfaces of traditional and industrial dry sausages. *Food Microbiology*; 26 (1): 65-70 (IF 2.039).
 27. Kozina, B., Karoglan, M., Herjavec, S., Jeromel, A., **Orlić, S.** Influence of basal leaf removal on the chemical composition of Sauvignon Blanc and Riesling wines. // *Journal of food, agriculture and environment*. 6 (2008), 1; 28-33
 28. Belloch, C., **Orlic, S.**, Barrio, E., Querol, A. (2008): Fermentative stress adaptation of hybrids within the *Saccharomyces sensu stricto* complex. *International Journal of Food Microbiology*; 122 (1-2): 188-195 (IF 2.581).
 29. **Orlic, S.**, Redžepović, S., Jeromel, A., Herjavec, S., Iacumin, L. (2007): Influence of indigenous *Saccharomyces paradoxus* strains on Chardonnay wine fermentation aroma. *International Journal of Food Science and Technology*; 42 (1): 95-101 (IF 0.832).
 30. Herjavec, S., Jeromel, A., Da Silva, A., **Orlic S.**, Redzepovic, S. (2007): The quality of white wines fermented in Croatian oak barrels. *Food Chemistry*: 100 (1): 124-128 (IF 2.433).

31. Comi, G., **Orlic, S.**, Redzepovic, S., Urso, R., Iacumin, L. (2004): Moulds isolated from Istrian dried ham at the pre-ripening and ripening level. *International Journal of Food Microbiology*; 96: 29-34 (IF 2.490).
32. Herjavec, S., Majdak, A., Tupajic, P., Redzepovic, S., **Orlic, S.** (2003): Reduction in acidity by chemical and microbiological methods and their effect on Moslavac wine quality. *Food Technology and Biotechnology*; 41(3): 231-236 (IF 0.253).
33. Redzepovic, S., **Orlic, S.**, Majdak, A., Kozina, B., Volschenk, H., Viljoen-Bloom, M. (2003): Differential malic acid degradation by selected strains of *Saccharomyces* during alcoholic fermentation. *International Journal of Food Microbiology*; 83: 49-61 (IF 2.261).
34. Majdak, A., Herjavec, S., **Orlic, S.**, Redžepović, S., Mirošević, N. (2002): Comparison of wine aroma compounds produced by *S.paradoxus* and *S.cerevisiae* strains. *Food Technology and Biotechnology*; 40(2): 103-109 (IF 0.302).
35. Redžepović, S., **Orlic, S.**, Sikora, S., Majdak, A., Pretorius, I.S. (2002) Identification and characterization of *Saccharomyces paradoxus* and *Saccharomyces cerevisiae* strains isolated from Croatian vineyards. *Letters in Applied Microbiology*; 35: 305-310 (IF 1.182).

Papers cited in the SCI

1. **Orlić, S.**, Huić, K., Urlić, B., Redžepović, S. (2007): Screening for the production of extracellular hydrolytic enzymes by *Saccharomyces* wine yeasts isolated from Croatian vineyards. *Periodicum biologorum*; 109 (2): 201-204 (IF 0.205).

Other papers

1. Kopt et al. (2015): The ocean sampling day consortium. *GigaScience* 4:27 (DOI 10.1186/s13742-015-0066-5) (IF 7,31)
2. Marković, S., Paliaga, P., Kljajić, Z., Najdek-Dragić, M., **Orlić, S.** (2013): Identification and quantification of microbial community by CARD-FISH method in Boka Kotorska Bay. *Studia Marina* 26(1): 83-98
3. Bura Nakić, E., Marguš, M., **Orlić, S.**, Ciglencčki, I. (2012): Zmajevsko oko – a unique example of anchialine system on the Adriatic coast (Croatia) during spring-summer stratification and autumn mixing period. *Natura Croatica* 21 supp 1; 17-20
4. Karoglan, M., Kozina, B., Jeromel, A., **Orlić, S.** (2008): The effect of partial defoliation on monoterpene levels of Gewurtztraminer wine (*Vitis vinifera* L.). *Poljoprivreda* 14(1): 25-40
5. Beljak, J., Jeromel, A., Herjavec, S., **Orlić, S.** (2008): Influence of autochthonous *Saccharomyces* spp. strains on the sulfur dioxide concentration in wine. *Journal of Central European Agriculture* 9 (2): 289-296
6. Dujmović, D., Babić, K., Jeromel, A., Redžepović, S., Kozina, B., Iacumin, L., **Orlić, S.** (2008): Selection of indigenous yeast strains isolated from cv. Gewurtztraminer from Ilok wine-growing region. *Journal of Central European Agriculture* 9 (2): 323-328
7. Jeromel A., Herjavec, S., **Orlić, S.**, Redžepović, S., Wondra, M. (2008): Changes in volatile composition of Kraljevina wines by controlled malolactic fermentation. *Journal of Central European Agriculture* 9 (2): 363-372
8. Skelin, A., Sikora, S., **Orlić, S.**, Duraković, L., Redžepović, S. (2008): Genetic Diversity of Indigenous *Saccharomyces sensu stricto* Yeasts Isolated from Southern Croatia. *Agriculturae Conspectus Scientificus* 73 (2): 89-94
9. **Orlic, S.**, Pogačić, M., Jeromel, A., Karoglan, M., Kozina, B., Iacumin, L., Redžepović, S. (2008): Determination of killer character of wine yeast isolated from Istra. *Journal of Central European Agriculture* 9 (1): 95-100.
10. Herjavec, S., Jeromel, A., **Orlic, S.**, Kozina, B. (2007): Changes in volatile composition and sensory properties of Vugava wines aged in Croatia oak barrels. *Journal of Central European Agriculture*; 8(2): 194-204.
11. **Orlic, S.**, Ocic, N., Jeromel, A., Huić, K., Redžepović, S. (2005). Selection of Indigenous *Saccharomyces cerevisiae* Strains from Kutjevo Wine Growing Area at the Laboratory Scale. *Agriculturae Conspectus Scientificus*; 70(3):93-97.
12. Staver, M., Herjavec, S., **Orlic, S.**, Redžepović, S., Kovačević-Ganić, K., Jeromel, A., Peršurić, D. (2005). Influence of Indigenous *Saccharomyces cerevisiae* Strains on Higher Alcohol Content in Malvazija Istarska Wines. *Agriculturae*

Conspectus Scientificus; 70(2):55-58.

13. **Orlic, S.**, Redzepovic, S., Iacumin, L., Comi, G. (2004): Brze metode za određivanje mikroorganizama u namirnicama. Meso; IV(1): 58-62.

14. Cantoni, C., Stella, S., Iacumin, L., Comi G., **Orlic, S.** (2003): *Sphingomonas paucimobilis*, un germe deteriorante latte e derivati (*Sphingomonas paucimobilis* as a deteriorative of milk and cream). Industrie Alimentari; XLII, marzo: 265-267.

15. Redžepović, S., Majdak, A., **Orlic, S.**, Herjavec, S. (2001): *Saccharomyces sensu stricto* indigenous strains and their effect on glycerol and malic acid concentration in wine. Kemija u industriji; 50(9): 469-475.

International congress

- Pjevac, P., Dyksma, S., Amann, R., **Orlić, S.** (2016): Contributions of green and purple sulfur bacteria to total inorganic carbon fixation in a sulfidic seawater lake. 16th International Symposium on Microbial Ecology, Montreal, Canada, 21-26.08.
- Mejdandžić, M., Bosak, S., **Orlić, S.**, Ljubešić, Z. (2016): A new marine planktonic Entomoneis species from the Adriatic Sea; *10th Central European Diatom Meeting Abstract and Program Book* ; 20-23.04.
- Mejdandžić, M., **Orlić, S.**, Bosak, S., Bošnjak, I., Cetinić, I., Peharec Štefanić, P., Sesar, T., Gašparović, B., Ljubešić, Z. (2016): Characterization of photosynthetic prokaryotes from the Southern Adriatic Pit ; *Abstracts of papers presented at the EMBO | EMBL Symposium: A New Age of Discovery for Aquatic Microeukaryotes*; Heidelberg, Njemačka, 26.-29.01.
- Korlević, M., J. Henderiks, Šupraha, L., Ljubešić, Z., **S. Orlić** (2015). Bacterial diversity along a salinity gradient in a salt wedge karstic estuary; Second SAME Conference on Aquatic Microbial Ecology: SAME-14, Uppsala (Sweden), 23-28.08
- Korlević, M., Zucko, J., Najdek Dragić, M., Blažina, M., Gacesa, R., Baranasic, D., Starcevic, A., Diminic, J., Hranueli, D., **Orlić, S.** (2014): Metagenomic approach in alkB identification; COST meeting Madrid, 10-11.04.
- Marković, S., Paliaga, P., Kljajić, Z., Najdek Dragić, M., **Orlić, S.** (2013): Estimation of bacterial community in the Boka Kotorska Bay (Montenegro) by CARD-FSIH method. Annual Conference of the Association for General and Applied Microbiology (VAAM) *in collaboration with the Royal Netherlands Society for Microbiology (KNVM)*. Bremen, 10-13.03.
- Bižić-Ionescu, M., Zeder, M., Ionescu, D., **Orlić, S.**, Amann, R., Fuchs, B.M., Grossart, H-P. (2013): Particle associated bacterial communities are extremely heterogeneous, yet differ profoundly between limnic and marine systems. First EMBO Conference on Aquatic Microbial Ecology SAME13 Stresa 8-13.9.
- Pjevac, P., **Orlić, S.**, Korlević, M., Bura Nakić, E., (2013): Microbial response to temperature induced anoxia in a marine karst lake. Annual Conference of the Association for General and Applied Microbiology (VAAM) *in collaboration with the Royal Netherlands Society for Microbiology (KNVM)*. Bremen, 10-13.03.
- Bižić-Ionescu, M., Zeder, M., **Orlić, S.**, Amann, R., Grossart, H-P., Fuchs, B.M. (2013): Comparison of particle-associated microbial communities in limnic and marine systems. Annual Conference of the Association for General and Applied Microbiology (VAAM) *in collaboration with the Royal Netherlands Society for Microbiology (KNVM)*. Bremen, 10-13.03.
- Bižić-Ionescu, M., Zeder, M., Marshall, J., **Orlić, S.**, Amann, R., Fuchs, B.M., Grossart, H-P. (2013): 3rd International Workshop "Research in Shallow Marine and Fresh Water Systems. Bremen, Njemačka, 14-15.02
- Bizic-Ionescu, M., Zeder, M., Ionescu, D., Marshall, J., Amann, R., Fuchs, B.M., Najdek, M., **Orlić, S.** (2012): Free living and particle associated microbial communities in the north Adriatic Sea along a transect from Rovinj to the Po river delta. 14th International Symposium on Microbial Ecology, ISME14; Copenhagen, 19-24.08.
- Bižić-Ionescu, M., Zeder, M., Marshall, J., Orlić, S., Amann, R., Fuchs, B.M., Grossart, H-P. (2012): Comparison between particle-associated bacteria in limnic and marine systems. 14th International Symposium on Microbial Ecology, ISME14; Copenhagen, 19-24.08.

- Pjevac, P., Korlević, M., Bura Nakić, E., **Orlić S.**(2012): Vertical distribution of microbial communities in the Zmajevsko oko (Rogoznica lake) during stratified and mixed conditions. 14th International Symposium on Microbial Ecology, ISME14; Copenhagen, 19-24.08.
- Korlević, M., Ionescu, D., Paliaga, P., Šilović, T., Amann, R., Najdek, M., **Orlić, S.** (2012): Deep Ocean microbial communities in the South Adriatic Pit. 14th International Symposium on Microbial Ecology, ISME14; Copenhagen, 19-24.08.
- **Orlić, S.**, Marković, S. Najdek, M., Kljajić, Z. (2011): "Bacterial diversity of the Boka Kotorska bay" MICROBIOLOGIA BALKANICA, 7th Balkan Congress of Microbiology, 25-29 October.
- Peris, D., Belloch, C., **Orlić, S.**, Barrio, E. (2010): Hot spot recombination point in mitochondrial genome of genus *Saccharomyces* shows historical hybridization events. EMBO Conference Series Experimental Approaches to Evolution and Ecology using Yeast. Heidelberg, Germany, 29.09.-3.10.
- Arroyo-Lopez, F. N., **Orlic, S.**, Belloch, C., Querol, A., Barrio, E. (2008): Influence of temperature, pH and sugar concentration on the growth of wine yeasts for the industrial sector. XVI Congreso Nacional de Microbiología de los Alimentos; Cordoba, Spain, 14-17.09.
- **Orlic, S.**, Belloch, C., Barrio, E., Querol, A. (2007): Tolerance to some enological stresses of yeast strains in the *Saccharomyces sensu lato* group; XXIIIrd International Conference on Yeasts Genetics and Molecular Biology, Melbourne, Australia, 1-6.06.
- Herjavec, S., Jeromel, A., **Orlić, S.**, Redžepović, S. (2006): The influence of croatian oak wood on aroma profile and sensory characteristics of Vugava wine; XXIX International Congress of OIV; Logrono, Spain, 25-30.06.
- **Orlic, S.**, Redzepovic, S., Herjavec, S., Durakovic, S., Jeromel, A., Huic, K. (2005): Use of Different Molecular Methods in the Identification of *Brettanomyces* Spp. from Croatian Grapes and Wines. Joint Meeting of the 3 division of the International Union of microbiological societies 2005-XI International Congress of Micology, San Francisco, USA, 23-28.07.
- Herjavec, S., **Orlic, S.**, Jeromel, A., Redzepovic, S., Kozlovic, G. (2005): Effect of Acacia and Oak Wood on the Content of Phenolic Compounds in Malvasija and Vugava Wines. 56th Annual Meeting American Society for Enology and Viticulture, Seattle, USA, 20-24.06.
- Skelin-Vujic, A., Sikora, S., **Orlic, S.**, Redzepovic, S. (2004): Identification and characterization of indigenous *Saccharomyces cerevisiae* strains isolated from cv. Plavac mali. International Congress on Yeasts, Rio de Janeiro, Brasil 15-20.08.
- **Orlic, S.**, Huic, K., Durakovic, S., Redzepovic, S. (2004): The use of *Candida stellata* in combination with *Saccharomyces cerevisiae* or *S.paradoxus* for glycerol production during fermentation. International Congress on Yeasts, Rio de Janeiro, Brasil, 15-20.08.
- **Orlic, S.**, Redzepovic, S. (2004): Occurrence of *Brettanomyces* spp. from Croatian grapes and wines. 12th Australian Wine Technical Conference. Melbourne, Australia, 24-29.07.
- **Orlic, S.**, Kozlovic, G., Jeromel, A., Redzepovic, S. (2004): Acacia barrels – new approach for improvement of Malvasia from Istria wines. 12th Australian Wine Technical Conference. Melbourne 24-29.07.
- Herjavec, S., Majdak, A., **Orlic, S.**, Redzepovic, S., da Silva, A. (2003): The quality of Chardonnay and Sauvignon wines produced in croatian oak barrels. I Balkan and III Macedonian Symposium for Vine Growing and Wine Production. Skoplje, Macedonia, 26-28 November
- Redzepovic, S., **Orlic, S.**, Majdak, A., Kozina, B., Volschenk, H., Viljoen-Bloom, M. (2003): Differential malic acid degradation by selected strains of *Saccharomyces* during alcoholic fermentation. 23rd International Specialised Symposium on Yeasts, Budapest, Hungary, 26-29.08.
- Coccolin, L., **Orlic, S.**, Iacumin, L., Manzano, M. and Comi, G. (2002): *Yersinia* spp. direct detection in food by molecular methods. International Conference: "Quality and risk assessment of agricultural food in the Mediterranean area" September 24-27 Foggia (Italy) www.mediterranean.conference.isnet.it
- Redzepovic, S., **Orlic, S.**, Majdak, A., Kozina, B., Volschenk, H., Viljoen-Bloom, M. (2002): Evaluation of *Saccharomyces paradoxus* strain R088 for Biological Deacidification

of Wine. 22nd International Specialised Symposium on Yeasts, Pilanesberg, South Africa, 25-28.3.

- 26. Redzepovic, S., **Orlic, S.**, Majdak, A., Herjavec, S. (2001): *Saccharomyces paradoxus* new species in enology//26 th World Congress & General Assembly of the Office International de la Vigne et du Vin, Adelaide, Australia
- **National congress**
- Korlević, M., Pop Ristova, P., Kottmann, R., Amann, R., **Orlić, S.** (2013): Bacterial communities in the south Adriatic is dominated by SAR11. Power of microbes in industry and environment; Primošten, 9.12.10.
- Korlević, M., Pjevac, P., Ionescu, D., Bura Nakić, E., Najdek, M., **Orlić, S.** (2012): Microbial communities in the Zmajevsko jezero (Rogoznica lake) during stratified and mixed conditions. 5th Croatian Congress of Microbiology with international participation. Primošten, 26-30.09.
- **Orlić, S.**, Vojvoda, T. (2008): Functional analysis of ethyl esters genes in the *Saccharomyces* genus; Congress of the Croatian Society of Biochemistry and Molecular Biology with international participation. Osijek 17-20.09.
- **Orlić, S.**, Toplovec, S., Jeromel, A., Herjavc, S., Kozina, B., Redžepović, S. (2007): Enological characterization of yeast strains isolated from Istra. 42 hrvatski i 2 međunarodni simpozij agronoma. 13-16.02.
- **Orlic, S.**, Redzepovic, S. (2004): Changes in the microflora of Paski cheese, a traditional Croatian product. 2nd Central European Meeting and 5th Croatian Congress of Food Technologists, Biotechnologists and Nutritionists, Opatija
- Redzepovic, S., Pipinic, T., Iacumin, L., Comi, G., **Orlic, S.** (2004): Biodiversity of yeasts isolated from Kulen. Third Croatian Congress of Microbiology with international participation. Poreč, 4-7.10.
- Comi, G., **Orlic, S.**, Redzepovic, S., Urso, R., Iacumin, Stipic, N. (2004): Moulds isolated from Istrian dried ham; Third Croatian Congress of Microbiology with international participation. Poreč, 4-7.10.
- **Orlic, S.**, Redzepovic, S. (2004): *Brettanomyces* spp. in wine. Third Croatian Congress of Microbiology with international participation. Poreč, 4-7.10.
- Skelin-Vujić A., Sikora S., **Orlić S.**, Redžepović S. (2004): Genetička identifikacija autohtonih sojeva *Saccharomyces cerevisiae* primjenom RAPD metode. XXXIX Znanstveni skup hrvatskih agronoma s međunarodnim sudjelovanjem, 17-20 veljače, Opatija, Hrvatska, Priopćenja 853-856
- Comi, G., **Orlic, S.**, Redzepovic, S. (2003): Bacterial starter culture in the production of traditional sausages; Biotechnology and Food, 3rd Croatian Scientific Conference about Biotechnology; Zagreb, February 17-20
- **Orlic, S.**, Redzepovic, S., Iacumin, L., Cocolin, L., Comi, G. (2002): Application of PCR-DGGE for identification microflora of Kulen; 1st Croatian Congress on Molecular Life Science with International participation, Opatija 9-13 June
- Redzepovic, S., **Orlic,S.** (2002): Physiological characterisation of yeast strains isolated from ice harvest of Chardonnay grapes; Power of Microbes in Industrial and Environment, Croatian, Hungarian and Slovenian Symposium on Industrial Microbiology and Microbial Ecology, Opatija 7-9 June.
- **Orlic,S.**, Redzepovic,S., Majdak, M. (2002): Influence of *Saccharomyces paradoxus* indigenous strains on composition of Chardonnay wine; Power of Microbes in Industrial and Environment, Croatian, Hungarian and Slovenian Symposium on Industrial Microbiology and Microbial Ecology, Opatija 7-9 June.
- Majdak, A., **Orlić, S.**, Redžepović, S., Herjavec, S. (2000): Influence of the *Saccharomyces sensu stricto* indigenous strains on glycerol and malic acid concentration of Gewurtz Traminer wine // *International conference - Prospects for viticulture and*

enology / Pejić, I; Mirošević, N (ur.). Zagreb

- Redžepović, S., **Orlić, S.**, Sikora, S., Mirošević, N. (2000): Identification of *Saccharomyces paradoxus* an *Saccharomyces cerevisiae* Isolated from Zagreb Wine Region 2 Croatian Congress of Microbiology with Interanational Participation, Brijuni, 3-6 October,
- Redžepović, S., **Orlić, S.**, Majdak, A., Kozina B. (2000). Biological wine deacidification with different yeast strains // *Book of invited papers and abstracts* / Pejić, I; Mirošević, N (ur.). Zagreb
- Redžepović, S., **Orlić, S.**, Comi, C., Mirošević, N. (2000): Characterization of Indigenous *Saccharomyces cerevisiae* Strains from Zagreb Region //36th Croatian Symposium on Agriculture with an International Participation, Opatija, February 22-25,

Invited lecture

1. **Orlić S.** (2016) International courses "Next Generation Sequencing, Metagenomics and Microbial diversity"; International courses «Next Generation Sequencing and Bioinformatics: Methods, Tools and Applications in Basic Research, Clinical Diagnostics and much more" 27.5.
2. **Orlić S.** (2016): "Molecular approaches for the study of microbial communities: biodiversity and function" University of Messina 26.5.
3. **Orlić S.** (2016): Application of -omics in the study of the Croatian coast water systems; Institute of Hydrobiology; Biology Center Czech Academy of Science; 2.11.
4. **Orlić S.** (2015): "Molecular approaches for the study of microbial communities: biodiversity and function – a aquatic view ".Shanghai Jiao Tong University, China, 5.10
5. Barrio, E., Arias, A., **Orlić, S.**, Perez Torrado, R., Querol, A. (2009): The Genetics of *Saccharomyces cerevisiae* domestication. 7th Symposium on Genetic Resources for Latin America and the Caribbean. Pucon, Čile, 28-30.10.
6. **Orlic, S.** (2007): Functional genomics in fermenting yeasts. Power of Microbes in Industry and Environment. Zadar, Hrvatska, 19-22.09.
7. Redzepovic, S., **Orlic, S.**, Majdak, A., Sikora, S. Kozina, B. (2001): Selection of indigenous yeasts from croatian wine regions// Biotechnology and Environment, Scientific Conference with International Participation, Zagreb, February 19-22,

OTHER RESEARCH ACTIVITIES

(CHRONOLOGICALLY; CHIEF EDITOR OR EDITOR OF RESEARCH BOOK, HOME AND INTERNATIONALS RESEARCH JOURNALS, HOME AND INTERNATIONAL CONFERENCE PROCEEINGS AND OTHER)

Referee for the following journals

- Marine Ecology
- Environmental Science and Pollution Research
- FEMS Microbiology Letters
- Journal of Applied Microbiology
- Letters of Applied Microbiolgy
- Systematic and Applied Microbiology
- Journal of Industrial Microbiology and Biotechnology
- Food Microbiology
- European Food Reserarch and Technolgy
- Journal of Agriculture and Food Chemistry
- Agriculturae Conspectus Scientificus
- Journal of Biomedicine and Biotechnology
- International Journal of Wine Research
- Annals of Microbiology

- Food Chemistry

In the editorial board of the following journals:

Annals of Microbiology - Springer (2019 -

<https://www.springer.com/life+sciences/microbiology/journal/13213?detailsPage=editorialBoard>

Universal Journal of Microbiology Research

(http://www.hrpub.org/journals/jour_editorialboard.php?id=2) from 2013

Bioscience and Bioengineering

(<http://www.publicscienceframework.org/journal/editorialboard/bio.html>) from 2015

International Journal of Life Science and Engineering

(<http://www.publicscienceframework.org/journal/editorialboard/ijlse.html>) from 2015

AIMS Microbiology from 2015

<http://www.aimspress.com/news/131.html>

Annals of Marine Science from 2015

<http://www.peertechz.com/Marine-Science/editorialboard.php>

Referee for the National Science foundation, higher education and technological development of Croatia, National Research Foundation (NRF) of South African Republic and Bulgarian National Fund, SEE-ERA.NET PLUS Joint Call, Fondo para la Investigacion Cientifica y Tecnologica, Republic of Argentina, EUREKA, Innovation Fund Denmark

OTHER IMPORTANT SKILLS AND COMPETENCIES

- classical microbiological methods
- molecular methods (PCR; Southern Western, Northern, real time PCR, cloning, DGGE, CARD-FISH, NGS...)
- microbial selection
- yeast transformation
- hybridization
- Comparative genomic hybridization and transcriptome analysis
- phylogenetic analysis (MEGA; RDP3; PAUP; Reuter; ClustaW...)
- PCR site-directed mutagenesis

ADDITIONAL DOCUMENTS AND NOTES

POPULAR TALKS

6.5.2016. CROATIAN BOTANICAL SOCIETY – PUT OKO SVIJETA U 46 DANA

15.7.2016. INSTITUT RUĐER BOKOVIĆ – PUT OKO SVIJETA U 46 DANA

15.7.2016. BAKTERIJE U PLAVETNILU

9.2. JUTARNJI LIST – RAT PROTIV PLASTIKE: NASTAVI LI SE OVAKO, ZA 30 GODINA U MORIMA ĆE JE BITI VIŠE NEGO RIBE!