



# TINA SILOVIC

## PERSONAL INFO

Name, Surname Tina Šilović  
Date of Birth 5 th May 1980  
Nationality Croatian

## ABOUT ME

Marine microbial ecologist with a principal interest in ecology of marine picoplankton communities. Aside from Science & marine microbes, passionate about swimming, running, dancing, Music, Design, Technology, sky is not the limit...

FIND ME

[www.tina-silovic.hr](http://www.tina-silovic.hr)

Twitter (@TinaSilovic)  
Research Gate (Tina Silovic)  
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EDUCATION

- **PhD** in Natural Sciences / DEC 2006 - OCT 2012  
Faculty of Science, University of Zagreb, Croatia  
(PhD Thesis: "Composition and dynamics of picophytoplankton in Adriatic Sea with emphasis on cyanobacteria genus *Synechococcus*;  
Supervisors: Dr. Dragica Fuks, Dr. Željko Jakšić)
  - **BSc** in Marine Biology and Ecology / SEP 1998 - MAY 2003. University Center for Marine Studies, University of Split, Croatia

# WORKING EXPERIENCE

- **PostDoc** / JAN 2015 - DEC 2016  
Laboratory of Excellence (Labex) OT-Med  
Aix Marseille University, Mediterranean Institute  
of Oceanography (MIO), Marseille, France
  - **Research Associate** / SEP 2013 - CURRENT  
Ruđer Bošković Institute (RBI), Center for Marine  
Research, Laboratory for marine microbial ecology  
(LMME), Rovinj, Croatia
  - **Higher Research Assistant** / NOV 2012 - SEP 2013  
RBI, (LMME), Rovinj, Croatia
  - **PhD student** / DEC 2006 - OCT 2012  
RBI, (LMME), Rovinj, Croatia
  - **Research Technician** / JAN 2005 - DEC 2006  
RBI, (LMME), Rovinj, Croatia

## TEACHING EXPERIENCE

- **Teaching Assistant** / SEP 2010 - DEC 2014  
Marine Science BSc program ('Microbiology')  
Juraj Dobrila University of Pula, Croatia

## PROFESSIONAL SKILLS

## FLOW CYTOMETRY

## MOLECULAR FINGERPRINTING (DGGE)

## HPLC (PIGMENT ANALYSIS)

## EPIFLUORESCENT MICROSCOPY

## PARTICIPATION IN SCIENTIFIC PROJECTS

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- Research Associate** / 2017 -  
Assessment of Adriatic algae potential in co-generation production of 3rd generation biofuel" (Croatian Science Foundation); leader: M. Blažina (RBI, Croatia)
- PostDoc** / 2015 - 2016  
Dynamics of heterotrophic microorganisms determined by in situ automated flow cytometry (DHÉMISA), Labex OT-Med (Objectif Terre - Bassin Méditerranéen) project in partnership with the IRSTEA; leader: M.Denis ('Institut Méditerranéen d'océanologie' (MIO), France)
- Research Assistant** / 2011 - 2013  
Annual change of picoplankton composition in northern Adriatic according to CARD-FISH and fingerprinting (Croatian- German bilateral project, DAAD); leader: S.Orlić (RBI, Croatia / 'Max Planck Institute for Marine Microbiology', Germany)
- Research Assistant** / 2010 - 2011  
Diversity and picoplankton function along trophic gradients in northern Adriatic (PICOADRIF, funding ADRIS Group); leader: M. Blažina (RBI, Croatia)
- Leader** / 2010  
Uncovering composition and diversity of marine picophytoplankton in northern Adriatic coastal waters (Ministry of Science, Education and Sports of the Republic of Croatia: 'Unity through Knowledge Fund', grant 2A); co-leader: C. Pedrós-Alió (RBI, Croatia / 'CSIC, ICM, Barcelona, Spain)
- Research Assistant** / 2008 - 2009  
Implementation of the Water Quality Monitoring in the Western Istrian Coastal Sea" (WICOS), INTERREG/CARDS-PHARE; leader: D.Degobbis (RBI, Croatia)
- Student & Research Assistant** / 2007 - 2009  
Marine science and coastal management in the Adriatic region, Western Balkans (Norwegian Cooperation Program on Research and Higher Education with the countries on the West Balkan); leaders: P.Wassman & B. Ćosović ('University of Tromsø', Norway / RBI, Croatia)
- PhD student** / 2007 - 2012  
Structure and physiology of microbial communities in northern Adriatic fronts (Ministry of Science, Education and Sports of the Republic of Croatia); leader: M. Najdek-Dragić (RBI, Croatia)
- Research Technician and Assistant** / 2010 - 2011  
Croatian national monitoring program 'Systematic research of the Adriatic Sea as a base for sustainable development of the Republic of Croatia' (Ministry of Science, Education and Sports of the Republic of Croatia; project 'Jadran'); leader: N.Smodlaka (RBI, Croatia)

## RESEARCH & TECHNICAL SKILLS

### □ LABORATORY TECHNIQUES

Microscopy (epifluorescent)  
HPLC (pigment analysis)  
Flow cytometry  
isolation/culturing of cyanobacteria

### □ MOLECULAR & MICROBIOLOGICAL TECHNIQUES

DNA extraction, PCR based methods  
(microbial fingerprinting- DGGE)

### □ SOFTWARE PROGRAMS & COMPUTING

Surfer, Grapher & ODV for visualization  
FloMax and FlowJo for flow cytometry  
SYSTAT, PRIMER, R for statistics  
HTML, CSS - beginner level

## SCIENCE COMMUNICATION

### □ FEMS Opportunity taskboard force

### □ Microbiome Digest - part of the team running daily digest of scientific microbiome papers

### □ Sci Fund Challenge Classes: ("Instagram class"; "Twitter class")

## OTHER QUALIFICATIONS

### □ Open Water Diver (SSI Croatia) International Scuba Diving Certificate

### □ SPANISH language course (A1) Un Lugar en el Mundo SCP (Barcelona, Spain)

### □ ITALIAN language course (A1) Open University of the City of Rovinj (Croatia)

### □ FRENCH language course (CEFP2) Alliance Française (Split, Croatia)

## TRAINING/PARTICIPATION IN WORKSHOPS

### □ 2017 / 8 WEEKS

Short-Term Scientific Missions, COST Action: ES1408 (EUAlgae), under supervision of Dr. Giuseppe Torzillo (CNR, Sesto Fiorentino, Italy)

### □ 2017/1 WEEK

UCA International Summer School, Course IV: "The Role of Microalgae Biotechnology in Blue & Green Economy", University of Cádiz, Cádiz, Spain

### □ 2014 / 2 WEEKS

AWI-SAHFOS Summer School on all aspects of timeseries analysis, Alfred Wegener Institute's Biologische Anstalt Helgoland, Helgoland, Germany

### □ 2014 / 1 WEEK

OGS Summer School on 'Sustainable Blue Growth in South East Europe', International Centre For Theoretical Physics (ICTP), Trieste, Italy

### □ 2013 / 1 WEEK

Marine Genomics 4 Users - Theoretical and Practical Training Course in Bioinformatics, Max Planck Institute for Marine Microbiology, Bremen, Germany

### □ 2012 / 6 WEEKS

C-MORE summer course ('Microbial Oceanography: Genomes to Biomes') at the University of Hawai'i at Mānoa (UHM)

### □ 2010 - 2011 / 18 WEEKS

training in DGGE under supervision of dr. Carlos Pedrós-Alió (CSIC, ICM, Barcelona, Spain)

### □ 2009 / 3 WEEKS

training in HPLC pigment analysis under supervision of dr. Marijan Ahel (ZIMO, 'RBI', Croatia)

### □ 2008 / 11 WEEKS

training in flow cytometry under supervision of dr. Marcel J.W. Veldhuis (NIOZ, Texel, Netherlands)

### □ 2007 / 3 WEEKS

Marine ecology course, Montenegro

- **Šilović, T.**, Mihanović, H., Batistić, M., Dupčić, I., Hrustić, E., Najdek, M. .Picoplankton distribution influenced by thermohaline circulation in the southern Adriatic. *Continental Shelf Research* 155 (2018): 21-33
- Bosak, S., Godrijan, J., **Šilović, T.** Dynamics of the marine planktonic diatom family Chaetocerotaceae in a Mediterranean coastal zone. *Estuarine, Coastal and Shelf Science* 180 (2016); 69-81
- Najdek, M. Paliaga, P., **Šilović, T.**, Batistić, M., Garić, R., Supić, N., Ivančić, I., Ljubimir, S., Korlević, M., Jasprica, N., Hrustić, E., Dupčić-Radić, I., Blažina, M., Orlić, S. Picoplankton community structure before, during and after convection event in the offshore waters of the southern Adriatic Sea. *Biogeosciences*. 11(2014): 2645-2659
- Orlić, S., Najdek, M., Supić, N., Ivančić, I., Fuks, D., Blažina, M., **Šilović, T.**, Paliaga, P., Godrijan, J., Marić, D. Structure and variability of microbial community at transect crossing a double gyre structure (north-eastern Adriatic Sea). *Aquatic Microbial Ecology*. 69 (2013): 193-203
- **Šilović, T.**, Balague, V., Pedrós-Alió, C., Orlić, S. Picoplankton seasonal variation and community structure in the northeast Adriatic coastal zone. *FEMS Microbiology Ecology*. 82 (3) (2012): 678-691
- **Šilović, T.**, Bosak, S., Jakšić, Ž., Fuks, D. Seasonal dynamics of the autotrophic community in the Lim bay (NE Adriatic sea). *Acta Adriatica*. 53(1) (2012): 41-56
- Bosak, S., **Šilović, T.**, Ljubešić, Z., Kušpilić, G., Pestorić, B., Krivokapić, S., Viličić, D. The phytoplankton size structure and species composition as an indicator of the trophic status in transitional ecosystems: A case study of the Mediterranean fjord-like karstic bay. *Oceanologia*. 54 (2) (2012): 1-32
- Fuks, D., Ivančić, I., Najdek, M., Lučić, D., Njire, J., Godrijan, J., Marić, D., **Šilović, T.**, Paliaga, P., Blažina, M., Precali, R., Orlić, S. Changes in the planktonic community structure related to trophic conditions: The case study of the northern Adriatic Sea. *Journal of Marine Systems*. 96–97 (2012): 95-102
- Najdek, M., Blažina, M., Fuks, D., Ivančić, I., **Šilović, T.** Intrusion of high-salinity water causes accumulation of transparent exopolymer particles (TEP) in the northern Adriatic Sea. *Aquatic microbial ecology*. 63 (1) (2011): 69-74
- **Šilović, T.**, Ljubešić, Z., Mihanović, H., Olujić, G., Terzić, S., Jakšić, Ž., Viličić, D. Picoplankton composition related to mesoscale circulation on the Albanian boundary zone (Southern Adriatic) in late spring. *Estuarine, coastal and shelf science*. 91(4) (2011): 519-525
- Viličić, D., **Šilović, T.**, Kuzmić, M., Mihanović, H., Bosak, S., Tomažić, I., Olujić, G. Phytoplankton distribution across the southeast Adriatic continental and shelf slope to the west of Albania (spring aspect). *Environmental monitoring and assessment*. 177(1/4) (2011): 593-607
- Ivančić, I., Fuks, D., Najdek, M., Blažina, M., Devescovi, M., **Šilović, T.**, Paliaga, P., Orlić, S. Long-term changes in heterotrophic prokaryotes abundance and growth characteristics in the northern Adriatic Sea. *Journal of marine systems*. 82(4) (2010): 206-216

## PEER-REVIEWED PUBLICATIONS

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- Ivančić, I., Fuks, D., Radić, T., Lyons, D., **Šilović, T.**, Kraus, R., Precali, R. Phytoplankton and bacterial alkaline phosphatase activity in the northern Adriatic Sea. *Marine environmental research*. 69(2) (2010): 85-94
- Radić, T., **Šilović, T.**, Šantić, D., Fuks, D., Mičić, M. Preliminary flow cytometric analyses of phototrophic pico- and nanoplankton communities in the northern Adriatic. *Fresenius environmental bulletin*. 18 (5a) (2009): 715-724
- Viličić, D., Kuzmić, M., Bosak, S., **Šilović, T.**, Hrustić, E., Burić, Z. Distribution of phytoplankton along the thermohaline gradient in the north-eastern Adriatic channel ; winter aspect. *Oceanologia*. 51 (4) (2009): 495-513

## OTHER PUBLICATIONS

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- **Šilović, T.**, Barrier, N., Dugenne, M., Lefèvre, D., Thyssen, M., et al.. Microbial response to winter deep sea convection and spring bloom conditions in the Gulf of Lion (NW Mediterranean sea) *Journal of Geophysical Research: Oceans. In Revision*
- **Šilović, T.**, Grégori, G., Dugenne, M., Thyssen, M., Calendreau, F., Cossart, T., Denis, M. A new automated flow cytometer for high frequency in situ characterisation of heterotrophic microorganisms and their dynamics in aquatic ecosystems". *Proceedings of IMEKO International Conference on Metrology for The Sea* (2017): page: 58-61

## RECENT PRESENTATIONS

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- **Šilović, T.**, Grégori, G., Dugenne, M., Thyssen, M., Calendreau, F., Cossart, T., Denis, M. Dynamics of heterotrophic microorganisms determined by in situ automated flow cytometry" OT-Med Scientific Day 2017, Aix en Provence, France (lecture)
- **Šilović, T.**, Grégori, G., Dugenne, M., Thyssen, M., Calendreau, F., Cossart, T., Kools, H., Dubelaar, G., Denis, M. A new automated flow cytometer for high frequency in situ characterization of heterotrophic microorganisms and their dynamics in aquatic ecosystems.IMEKO International Conference on Metrology for The Sea Naples, Italy, October 11-13, 2017 (lecture)
- **Šilović, T.**, Grégori, G., Dugenne, M., Thyssen, M., Calendreau, F., Cossart, T., Denis, M. Dynamics of heterotrophic microorganisms determined by in situ automated flow cytometry. Cytobuoy meeting 2017, Woerden, Netherlands, (invited lecture)
- Mejandžić, M., Mihanović, H., **Šilović, T.**, Henderiks, J., Šupraha, L., Polović, D., Bosak, S., Bošnjak, I., Cetinić, I., Olujić, G., Ljubešić, Z. Biomarker pigment divinyl chlorophyll a as a tracer of water masses? 6th European Phycological Congress (EPC) , London, United Kingdom. 2015 (poster)