

PERSONAL INFORMATION

Family name, First name: Hrenović Jasna

Identification number of the scientist: 219292

ORCID number: 0000-0001-8513-3993

URL for web site: <https://www.pmf.unizg.hr/naturaci/en>

Link to the Croatian Scientific Bibliography: <https://bib.irb.hr/lista-radova?autor=219292&lang=EN>

EDUCATION

2002 PhD biology/microbiology. Doctoral dissertation “Removal of phosphorus from wastewater by bioaugmentation and zeolites”. Faculty of Science, University of Zagreb.

1999 MSc ecology. Master thesis “Treatment of leachate of Zagreb’s landfill Jakuševac”. Faculty of Science, University of Zagreb.

1996 BSc ecology. Graduate thesis “Influence of temperature on the bacterial population in surface waters”, Faculty of Science, University of Zagreb.

CURRENT POSITION(S)

2016 – up to date Full Prof. at Division of Microbiology, Department of Biology, Faculty of Science, University of Zagreb.

PREVIOUS POSITIONS

2010-2016 assoc. prof.

2006-2010 assist. prof.

2005-2006 senior assistant

2001-2005 assistant

1997-2001 younger assistant

Institution: Department of Biology, Faculty of Science, University of Zagreb.

FELLOWSHIPS AND AWARDS

1999 - 2000 research grant (10 months) at Ondokuz Mayıs University, Faculty of Engineering, Department of Environmental Engineering, Samsun, Turkey.

2005 Tempus Programme Individual Mobility Grant no. IMG-HRV 1001-2005. J. Heyrovsky Institute of Physical Chemistry, Prague, Czech Republic.

2018 Erasmus+ Mobility Programme, University of Pretoria, South Africa.

2019 Erasmus+ Programme, Gazi University, Ankara, Turkey.

TEACHING ACTIVITIES

2006 – up to date scientific area of microbiology, leader of the courses: Microbiology 40826, Microbiology 35775, Bacteriology and virology 40360, General microbiology 37613, Laboratory practice 83552 for undergraduate study; Bacteriology of wastewater 44563, Ecology of bacteria and viruses 44565, Bioremediation 60229, Technology of wastewater treatment 53454 for graduate study; Biological wastewater treatment 151781 for doctoral study.

1997-2006 scientific area of microbiology, leader of laboratory exercises: Microbiology (1. year BSc. ecology, 1. year BSc. molecular biology, 1. year teacher of biology), General microbiology (2. year, teacher of biology and chemistry).

1997-2004 scientific area of microbiology, leader of laboratory exercises: Microbiology of the ecosystems (3. year BSc. ecology).

Institution: Department of Biology, Faculty of Science, University of Zagreb.

SUPERVISION OF DOCTORAL AND POSTDOCTORAL STUDENTS

2007 – 2017: 20 undergraduate/ 46 graduate/ 6 master/ 5 doctoral/ 1 postdoctoral students.
Institution: Department of Biology, Faculty of Science, University of Zagreb.

INSTITUTIONAL RESPONSIBILITIES

2014 – 2016 Head of the Division of Microbiology at Department of Biology, Faculty of Science

2012 – 2014 assistant for science to the Head of Department of Biology, Faculty of Science

2011 – 2013 commission for enrolment of graduate students

2011 – 2012 commission for graduate thesis

2010 – 2017 academic coach for students of the undergraduate program of biology

Institution: Faculty of Science, University of Zagreb.

MEMBERSHIPS, REVIEWS, ORGANISATION OF SCIENTIFIC MEETINGS

Member of the: Croatian Microbiological Society, American Society for Microbiology, Croatian Zeolite Association, International Zeolite Association, Croatian Water Pollution Control Society, Croatian Biological Society.

Reviews of manuscripts in international scientific journals (95).

Reviews of manuscripts for proceedings from scientific meetings (21).

Reviewer of the proposal of scientific projects at the Ministry of Science, Education and Sports (2).

Reviewer of the Environmental Impact Assessment Report at the Ministry of Environmental Protection, Physical Planning and Construction (9).

Reviewer of the report of scientific project of Croatian Science Foundation (1).

Reviewer of the proposal of scientific project of Czech Science Foundation (1).

Reviewer of the undergraduate study of Chemical Technology, program Environment Protection at the Faculty of Chemistry and Technology, University of Split (1).

Reviewer of the undergraduate study of Biology at the Faculty of Science, University of Split (1).

Member of the scientific board of scientific meetings (5).

Member of the organizing committee of scientific meetings (2).

2012-2016 International Advisory Board of the Journal of Engineering Research.

2012-2014 Editorial Board of the journal European Journal of Environment.

2010-2012 Editorial Board of the journal Global Journal of Biochemistry.

2014 - up to date the vice president of the Croatian Zeolite Association.

2010-2014 member of the advisory board of the Croatian Zeolite Association.

PRINCIPAL INVESTIGATOR AT PROJECTS

2015-2019 scientific project of Croatian Science Foundation no. IP-2014-09-5656 “Natural habitat of clinically important *Acinetobacter baumannii*”.

2016-2017 financial support of University of Zagreb no. 20281211 “Incidence of carbapenems and carbapenem-resistant bacteria in environment”.

2015-2016 financial support of University of Zagreb no. 202751 “Molecular ecology of pathogenic microbes”.

2014-2015 financial support of University of Zagreb no. 202664 “Ecology and genomics of environmental pathogens”.

2010-2012 Croatian-Serbian bilateral project no. 101134 „Dual function of the natural clinoptilolite in waste water treatment: antibacterial activity and the support for biosorption”.

2007-2012 co-financing of scientific project of Ministry of Science, Education and Sports by Croatian Waters.

2007-2013 scientific project of Ministry of Science, Education and Sports, Croatia no. 119-1191155-1203 „Interaction of mineral carriers and phosphate-accumulating bacteria in wastewater“.

COLLABORATOR AT PROJECTS

2006-2007 scientific project of Ministry of Science, Education and Sports, Croatia no. 119-0119162 „Thermophilic bacteria in National Park Plitvička jezera“.

2002-2006 technological project of Ministry of Science, Education and Sports, Croatia no. STIRP-22/2002 „Implementation of constructed wetlands in Croatia“.

SCIENTIFIC PUBLICATIONS

Number of citation according to the base Web of Science = 888, Scopus = 998

H index according to the base Web of Science = 17, Scopus = 17

Papers indexed in the base Web of Science, Scopus and Medline: 86 (main author: 46, impact factor above the median of the field: 33 JRC / 57 SRJ).

Papers in other journals with international review: 6

Chapters in books with international review: 3

Chapter in book with national review: 1

University book with national review: 2

Papers presented at national and international meetings: 107.

Selected publications in journals (last 5 years):

1. **Jasna Hrenović**, Ivana Goić-Barišić, Snježana Kazazić, Ana Kovačić, Marin Ganjto, Marija Tonkić (2016): Carbapenem-resistant isolates of *Acinetobacter baumannii* in a municipal wastewater treatment plant, Croatia, 2014. *Eurosurveillance*, 21 (15), 21-30, pii=30195. (IF 7.202, **Q1**, rank 5/84 in *Infectious Diseases / Q1 in Medicine*)
2. Martina Šeruga Musić, **Jasna Hrenović**, Ivana Goić-Barišić, Blaženka Hunjak, Dijana Škorić, Tomislav Ivanković (2017): Emission of extensively-drug resistant *Acinetobacter baumannii* from hospital settings to the natural environment. *Journal of Hospital Infection*, 96, 323-327. (IF 3.354, **Q1**, rank 33/181 in *Public, Environmental & Occupational Health / Q1 in Microbiology*)
3. **Jasna Hrenović**, Tomislav Ivanković, Damir Iveković, Siniša Repec, Draženka Stipaničev, Marin Ganjto (2017): The fate of carbapenem-resistant bacteria in a wastewater treatment plant. *Water Research*, 126, 232-239. (IF 7.051, **Q1**, rank 1/90 in *Water Resources / Q1 in Water Science and Technology*)
4. **Jasna Hrenović**, Goran Durn, Martina Šeruga Musić, Svjetlana Dekić, Tamara Troškot-Čorbić, Dijana Škorić (2017): Extensively and multi drug-resistant *Acinetobacter baumannii* recovered from technosol at a dump site in Croatia. *Science of the Total Environment*, 607-608, 1049-1055. (IF 4.610, **Q1**, rank 27/242 in *Environmental Sciences / Q1 in Waste Management and Disposal*)
5. Paul G. Higgins, **Jasna Hrenović**, Harald Seifert, Svjetlana Dekić (2018): Characterization of *Acinetobacter baumannii* from water and sludge line of secondary wastewater treatment plant. *Water Research*, 140, 261-267. (IF 7.051, **Q1**, rank 1/90 in *Water Resources / Q1 in Water Science and Technology*).
6. Hendriksen, R.S., Munk, P., Njage, P., van Bunnik, B., McNally, L., Lukjancenko, O., Röder, T., Nieuwenhuijse, D., Pedersen, S.K., Kjeldgaard, J., Kaas, R.S., Clausen, P.T.L.C., Vogt, J.K., Leekitcharoenphon, P., van de Schans, M.G.M., Zuidema, T., de Roda Husman, A.M., Rasmussen, S., Petersen, B., Bego, A., Rees, C., Cassar, S., Coventry, K., Collignon, P., Allerberger, F., Rahube, T.O., Oliveira, G., Ivanov, I., Vuthy, Y., Sopheak, T., Yost, C.K., Ke, C., Zheng, H., Baisheng, L., Jiao, X., Donado-Godoy, P.,

Coulibaly, K.J., Jergović, M., **Hrenovic, J.**, Karpíšková, R., Villacis, J.E., Legesse, M., Eguale, T., Heikinheimo, A., Malania, L., Nitsche, A., Brinkmann, A., Saba, C.K.S., Kocsis, B., Solymosi, N., Thorsteinsdottir, T.R., Hatha, A.M., Alebouyeh, M., Morris, D., Cormican, M., O'Connor, L., Moran-Gilad, J., Alba, P., Battisti, A., Shakenova, Z., Kiiyukia, C., Ng'eno, E., Raka, L., Avsejenko, J., Bērziņš, A., Bartkevics, V., Penny, C., Rajandas, H., Parimannan, S., Haber, M.V., Pal, P., Jeunen, G.-J., Gemmell, N., Fashae, K., Holmstad, R., Hasan, R., Shakoor, S., Rojas, M.L.Z., Wasyl, D., Bosevska, G., Kochubovski, M., Radu, C., Gassama, A., Radosavljevic, V., Wuertz, S., Zuniga-Montanez, R., Tay, M.Y.F., Gavačová, D., Pastuchova, K., Truska, P., Trkov, M., Esterhuyse, K., Keddy, K., Cerdà-Cuéllar, M., Pathirage, S., Norrgren, L., Örn, S., Larsson, D.G.J., Heijden, T.V., Kumburu, H.H., Sanneh, B., Bidjada, P., Njanpop-Lafourcade, B.-M., Nikiema-Pessinaba, S.C., Levent, B., Meschke, J.S., Beck, N.K., Van, C.D., Phuc, N.D., Tran, D.M.N., Kwenda, G., Tabo, D.-A., Wester, A.L., Cuadros-Orellana, S., Amid, C., Cochrane, G., Sicheritz-Ponten, T., Schmitt, H., Alvarez, J.R.M., Aidara-Kane, A., Pamp, S.J., Lund, O., Hald, T., Woolhouse, M., Koopmans, M.P., Vigre, H., Petersen, T.N., Aarestrup, F.M. (2019): Global monitoring of antimicrobial resistance based on metagenomics analyses of urban sewage. *Nature Communications*, 10, Article number: 1124. (IF 11.878, **Q1**, rank 5/69 in Multidisciplinary Sciences / Q1 in Biochemistry, Genetics and Molecular Biology).

7. Marko Jelić, **Jasna Hrenović**, Svjetlana Dekić, Ivana Goić-Barišić, Arjana Tambić Andrašević (2019): First evidence of KPC-producing ST258 *Klebsiella pneumoniae* in river water. *Journal of Hospital Infection*, 103, 147-150. (IF 3.704, **Q1**, rank 31/186 in Public, Environmental & Occupational Health / Q1 in Infectious Diseases).
8. Svjetlana Dekić, **Jasna Hrenović**, Goran Durn, Chantelle Venter (2019): Survival of extensively- and pandrug-resistant isolates of *Acinetobacter baumannii* in soils. *Applied Soil Ecology*, in print. (IF 3.445, **Q1**, rank 8/35 in Soil Science / Q1 in Soil Science).