

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



Surname(s) / First name(s)	<b>Marta Žuvić</b>
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Nationality	Croatian

**WORK EXPERIENCE**

Dates (from – to)	21 April 2021 - (current)
Name and address of employer	University of Rijeka
Type of business or sector	Vice-Rector for Students, Studies and Quality Assurance
Occupation or position held	Management
Dates (from – to)	01 February 2019 – 20 April 2021
Name and address of employer	University of Rijeka
Type of business or sector	Vice-Rector for Students, Studies and Quality Assurance
Occupation or position held	Management
Dates (from – to)	01 February 2019 – 31 January 2020
Name and address of employer	University of Rijeka
Type of business or sector	Vice-Rector for Quality Assurance and Enhancement
Occupation or position held	Management
Dates (from – to)	2018. -2019.
Name and address of employer	University of Rijeka, Department of Biotechnology
Type of business or sector	Academic
Occupation or position held	Head of the Department
Main activities and responsibilities	Management
Dates (from – to)	01 December 2012- (current)
Name and address of employer	University of Rijeka, Department of Biotechnology
Type of business or sector	Academic
Occupation or position held	Full Professor
Main activities and responsibilities	Teaching and research; Statistics and Data Analysis, Biophysics, Physics (general)
Dates (from – to)	01 Feb 2010 - 01 Feb 2015
Name and address of employer	University of Rijeka
Type of business or sector	Teaching and Learning Support Centre / Continuing Education (CE)
Occupation or position held	Head
Main activities and responsibilities	Organization and program management; teaching in CE (E-Learning)
Dates (from – to)	01 Jan 2008 - 30 Nov 2012
Name and address of employer	Faculty of Engineering, University of Rijeka
Type of business or sector	Academic
Occupation or position held	Associate professor
Main activities and responsibilities	Teaching (Physics, Biomedical physics, Imaging Techniques)
Dates (from – to)	01 Oct 2005 - 01 Feb.2010
Name and address of employer	Faculty of Engineering, University of Rijeka
Type of business or sector	Information Technology Academy / Continuing Education
Occupation or position held	Head
Main activities and responsibilities	Organization and program management

Dates (from – to)	01 Oct 1989 – 01 March 2004
Name and address of employer	Medical faculty, University of Rijeka
Type of business or sector	Teaching and research
Occupation or position held	Teaching and research assistant
Main activities and responsibilities	Teaching and research (Biophysics, Medical Physics, Biostatistics)

#### EDUCATION

Date	25 January 2002
Place of education	Zagreb
Name and type of organization	University of Zagreb, Faculty of Natural Sciences and Mathematics
Title or qualification awarded	PhD (Physics / Molecular Biophysics)

Date	9 May 1995
Place of education	Zagreb
Name and type of organization providing education	University of Zagreb, Faculty of Natural Sciences and Mathematics
Title or qualification awarded	MS Physics - MolecularBiophysics

Date	4 December 1988
Place of education	Rijeka
Name and type of organization	University of Rijeka
Title or qualification awarded	BS Mathematics and Physics

#### TRAINING

Year	2015
Place of training	Ajdovščina, Slovenija
Name and type of organization	Centre of Excellence for Biosensors Instrumentation and Process Control (COBIK) within Platform for trans-Academic Cooperation in Innovation (PACINNO) IPA project
Principal subjects/Occupational skills covered	Managerial-Enterpreneurial Skills Development for Researchers Programme

Year	2005
Place of training	Zagreb
Name and type of organization	CARNet & University of British Columbia, Canada
Principal subjects/Occupational skills covered	E-Learning manager certificate

Year	2004
Place of training	Rijeka
Name and type of organization	Teched – Microsoft gold partner
Principal subjects/Occupational skills	Project management certificate of achievement - Microsoft Solutions Framework Methodology

Year	2002
Place of training	Rijeka
Name and type of organization	Universitas - University of Rijeka
Principal subjects/Occupational skills	Quality management in higher education

Year	2001
Place of training	Rijeka
Name and type of organization	Universitas - University of Rijeka

Principal subjects/Occupational skills covered Workshop and seminar program lead by dr. D. Baume, Open University London: Supporting staff development to improve teaching and learning through a national network; Methods for assessing learning; Effective teaching for active learning

**PERSONAL SKILLS AND COMPETENCIES**

Mother tongue(s) Croatian

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
<b>English</b>	C2	Experienced user	C2	Experienced user	C1	Experienced user	C1	Experienced user	B2	Independent user
<b>German</b>	A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user
<b>Italian</b>	A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

**SOCIAL SKILLS AND COMPETENCIES** Able to effectively lead a team, work in a team, very good in communication with colleagues; able to make decisions quickly; prefer dynamic environment

**ORGANIZATIONAL SKILLS AND COMPETENCIES** 

- Work in the University administration, vice-rector for quality assurance and improvement, vice-rector for studies, students and quality assurance
- Management of the Department of Biotechnology, University of Rijeka (48 employees, 2 departments, 14 laboratories)
- Leading teams:
  - Co-lead of the WP3 Student Journey work package in the YUFE 2019-2022 project. and WP2 in the YUFE 2022-2025 project.
  - Management of the project Framework for digital competences of users in school (CARNet e-school project, 2016)
  - Coordinator of the Tempus EQIBELT project (2006-2009) for the University of Rijeka
  - Management and work organization of the Learning and Teaching Support Center (2010-2015)
  - Management and work organization of the IT Academy (establishment and development, 2005-2010)
  - Management and work organization of the Committee for e-learning of the University of Rijeka (2006-2015)
  - Project team leader on the Partners in learning project - collaboration between the University of Rijeka and Microsoft Croatia (2005-2008)

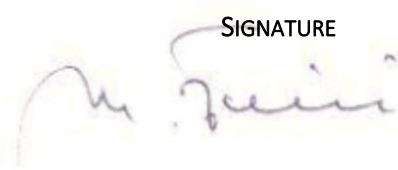
**TECHNICAL SKILLS AND COMPETENCIES** IT skills: advanced work in MS Office; LMS: Moodle, WebCT; Software packages: Statistica, MedCalc, SPSS

**ARTISTIC SKILLS AND COMPETENCIES** Completed elementary music school (6 years), instrument: piano

**OTHER SKILLS AND COMPETENCIES** Skiing, sailing, mountain hiking

**DRIVING LICENSE** Licensed for driving a car

**ATTACHMENT**

SIGNATURE  


## ATTACHMENT: SCIENTIFIC RESEARCH WORK, PROFESSIONAL WORK, TEACHING WORK AND OTHER CONTRIBUTIONS

### SCIENTIFIC RESEARCH WORK

#### List of scientific publications in citation databases, bibliometrics

- WoS: <https://www.webofscience.com/wos/author/record/G-7443-2012>, h-index 10, cit: 297
- ORCID <https://orcid.org/my-orcid?orcid=0000-0001-9709-1508>
- SCOPUS <https://www.scopus.com/authid/detail.uri?authorId=6507785312>, h-index 10, cit: 228
- Google Scholar <https://scholar.google.com/citations?hl=hr&user=JTEeFxoAAAAJ>, h-index 12, cit: 458
- Research Gate <https://www.researchgate.net/profile/Marta-Zuvic>, h-index 14, cit: 565

#### Chapters in scientific book

1. Baumgaertner A, Žuvić-Butorac M, Grudin S : Recent results from computer simulations of membrane channels and pumps, u S.G. Pandalai (Ed.) Recent Research Developments in Biophysics, Vol.2, Transworld Research Network, Trivandrum, India, 2003.
2. M.Žuvić-Butorac: Education Quality Improvement by E-learning Technology, Quality Management and Communication in Higher Education, 83-94, AZP Grafis, Zagreb 2007, ISBN 978-953-7571-01-6

#### Original scientific papers in journals

1. Butorac Ahel, I.; Lah Tomulić, K.; Vlašić Cicvarić, I.; Žuvić, M.; Baraba Dekanić, K.; Šegulja, S.; Bilić Čače. Incidence and Risk Factors for Glucose Disturbances in Premature Infants. *Medicina* 2022, 58, 1295.  
<https://doi.org/10.3390/medicina58091295>
2. Damir Raljević, Viktor Peršić, Elitza Markova-Car, Leon Cindrić, Rajko Miškulin, Marta Žuvić, Sandra Kraljević Pavelić Study of vitamin D receptor gene polymorphisms in a cohort of myocardial infarction patients with coronary artery disease. 2021/12 *BMC Cardiovascular Disorders* (21). 1. 1-9.  
<https://bmccardiovascdisord.biomedcentral.com/articles/10.1186/s12872-021-01959-x>
3. Pavelic, SK; Micek, V; Bobinac, D; Bazdulj, E; Gianoncelli, A; Krpan, D; Zuvic, M; Eisenwagen, S; Stambrook, PJ; Pavelic, K. Treatment of osteoporosis with a modified zeolite shows beneficial effects in an osteoporotic rat model and a human clinical trial. *Experimental Biology and Medicine*, Vol 246 (5) P:529-537, DOI: 10.1177/1535370220968752 , March 2021
4. Viktor Peršić, Damir Raljević, Elitza Markova-Car, Leon Cindrić, Rajko Miškulin, Marta Žuvić, Sandra Kraljević Pavelić: Vitamin D-binding protein (rs4588) T/T genotype is associated with anteroseptal myocardial infarction in coronary artery disease patients, *Ann Transl Med*, Accepted for publication Jun 17, 2019. doi: 10.21037/atm.2019.07.49 2019
5. Jasminka Giacometti, Gordana Žauhar, Marta Žuvić: Optimization of Ultrasonic-Assisted Extraction of Major Phenolic Compounds from Olive Leaves (*Olea europaea* L.) Using Response Surface Methodology, *Foods* 7(9),149 2018; doi: 10.3390/foods7090149
6. F. Anic, M. Žuvić, D. Štimac, S. Novak: Damage Index in 110 Systemic Lupus Erythematosus Patients. *West Indian Medical Journal*, December 2017, DOI: 10.7727/wimj.2017.151.
7. Snjezana Kraljic, Marta Zuvic, Kristian Desa, Ana Blagaic, Vlatka Sotosek, Dragana Antoncic, Robert Likic: Evaluation of nurses' workload in intensive care unit of a tertiary care university hospital in relation to the patients' severity of illness: A prospective study. *International Journal of Nursing Studies*, Vol 76, November–December 2017, p. 100-105.  
<https://doi.org/10.1016/j.ijnurstu.2017.09.004>
8. Lah Tomulic, K., Mestrovic, J., Zuvic, M., Rubelj, K., Peter, B., Bilic Cace, I., Verbic, A.: Neonatal risk mortality scores as predictors for health-related quality of life of infants treated in NICU: a prospective cross-sectional study. *Qual Life Res* (2017) 26:1361-1369 DOI 10.1007/s11136-016-1457-5
9. Duletić-Načinović A, Gačić V, Valković T, Lučin K, Fišić E, Žuvić-Butorac M, Seili-Bekafigo I, Jonjić N: Concurrent Elevations of VEGF, Osteopontin and MCP-1 Serum Levels Are Independent Predictors of Survival in Patients with Diffuse Large B-Cell Lymphoma, *Acta Haematol* 2016;136:52-6. DOI:10.1159/000444624.
10. Alen Protic, Igor Barkovic, Aldo Ivancic, Ozren Kricka, Marta Zuvic Butorac, Alan Sustic: Accuracy of targeted wire guided tube thoracostomy in comparison to classical surgical chest tube placement – a clinical study, *Injury* 03/2015; 86. DOI:10.1016/j.injury.2015.03.025
11. Juraj Kunisek, Luka Zaputovic, Zlatko Cubranic, Leon Kunisek, Marta Zuvic Butorac, Ksenija Lukin-Eskinja, Rade Karlavaris. Influence of the left ventricular types on QT intervals in hypertensive patients. *Anatol J Cardiol* 15(1):33-9. (2015) DOI:10.5152/akd.2014.5134

12. Anic, F; Zuvc-Butorac M; Stimac, D; Novak, S. New classification criteria for systemic lupus erythematosus correlate with disease activity. *Croat. Med. J.* 55 (5), pp. 514-519 (2014), DOI: 10.3325/cmj.2014.55.514
13. Mačukat IR, Spanjol J, Orlič ZC, Butorac MZ, Marinović M, Čupić DF. The effect of 5alpha-reductase inhibition with finasteride and dutasteride on bone mineral density in older men with benign prostatic hyperplasia. *Coll Antropol.* 2014 Sep;38(3):835-9.
14. Pavlovic-Ruzic, I; Jonjic, N; Zamolo, G; Zuvc-Butorac, M; Katunaric, M; Pecanic, S. The Patterns of Melanoma Presentation in Rijeka Region, *Acta Dermatovenerologica Croatica* (2013), vol 21 (3), p.174-179
15. A. Ljubačev, I. Medved, M. Oštrić, M. Zuvić-Butorac, J. Sokolić. Mitral Regurgitation and Coronary Artery Bypass Surgery : Comparison of Mitral Valve Repair and Replacement, *Acta Chirurgica Belgica* (2013) 113, pp. 187-191.
16. Alebić, M, Stojanović, N & Žuvić-Butorac, M: The IVF Outcome Counseling Based on the Model Combining DHEAS and Age in Patients with Low AMH Prior to the First Cycle of GnRH Antagonist Protocol of Ovarian Stimulation, *International Journal of Endocrinology*, (2013) vol. 2013, pp. 1-7. DOI: 10.1155/2013/637919, <http://www.hindawi.com/journals/ije/2013/637919/>
17. Asja Legovic, Barbara Mady Marcic, Ana Skrinjaric, Marta Zuvc Butorac, Senka Mestrovic, Marina Lapter Varga: Importance of Interincisal Index for Predicting Mesiodistal Crown Diameters of Canines and Premolars, *Coll.Antropol.*36(2012) 4:1287-1291. [http://www.collantropol.hr/\\_doc/Coll.%20Antropol.%2036%20%282012%29%204:%201287%E2%80%931291.pdf](http://www.collantropol.hr/_doc/Coll.%20Antropol.%2036%20%282012%29%204:%201287%E2%80%931291.pdf)
18. Kristian Desa; Mladen Peric; Ino Husedzinovic; Alan Sustic; Anđelko Korusic; Vjekoslav Karadz; Drazen Matlekovic; Branka Prstec-Veronek; Marta Zuvc-Butorac; Jadranko Sokolic; et al.: Prognostic performance of the Simplified Acute Physiology Score II in major Croatian hospitals: a prospective multicenter study, *Croat. Med. J.* 53, 442 (2012), <http://www.ncbi.nlm.nih.gov/pubmed/23100206>
19. S. Rukavina, M. Zuvc-Butorac, J. Ledic, B. Milotic, R. Jurdana-Sepic: Developing positive attitude towards science and mathematics through motivational classroom experiences, *Science Education International* (2012) 23(1):6-19 <http://www.icasonline.net/sei/march2012/p1.pdf>
20. A.Dekanic, R. D. Dintinjana, I. Budisavljevic, S. Pecanic, M. Zuvc Butorac, N. Jonjic: Strong nuclear EGFR expression in colorectal carcinomas is associated with cyclin-D1 but not with gene EGFR amplification, *Diagnostic Pathology* (2011) 6:108. <http://www.diagnosticpathology.org/content/6/1/108>
21. M. Žuvić-Butorac, N. Rončević, D. Nemčanin, Z. Nebić : Blended E-Learning in Higher Education: Research on Students' Perspective, *Issues in Informing Science and Information Technology* (2011), 8:409-429. <http://iisit.org/Vol8/IISITv8p409-429Zuvc247.pdf>
22. M.Zuvc-Butorac, Z. Nebić, D. Nemčanin, T. Mikac, P. Lučin: Establishing an Institutional Framework for an E-learning Implementation – Experiences from the University of Rijeka, Croatia, *Journal of Information Technology Education* (2011), 10: IIP 043-056., <http://www.jite.org/documents/Vol10/JITEv10IIPp043-056Zuvc946.pdf>
23. Protic Alen; Horvat Mladen; Komen-Usljebrka Helga; Frkovic Vedran; Zuvc-Butorac Marta; Bukal Krešimir; Sustic Alan: Benefit of the minimal invasive ultrasound-guided single shot femoro-popliteal block for ankle surgery in comparison with spinal anesthesia. *Wiener klinische Wochenschrift* (2010) 122(19-20):584-7. <http://www.researchgate.net/publication/46414722>
24. Protic A. Bobinac Mirna; Ivancic Aldo; Zuvc-Butorac Marta; Sustic Alan; Jakljevic Tomislav: Effect of preoperative feeding on gallbladder size and peristaltic of the small bowel following spinal anesthesia for the hip surgery. *Collegium antropologicum* 2010;34 Suppl 2():195-8. <http://hrcak.srce.hr/51656>
25. Alen Protic, Dean Turina, Dubravka Matanic, Josip Spanjol, Marta Zuvc-Butorac, Alan Sustic: Effect of preoperative feeding on gastric emptying following spinal anesthesia: a randomized controlled trial. *Wiener Klinische Wochenschrift.* 122 (2010): 1-4. <http://www.researchgate.net/publication/41533129>
26. B. Mady Maričić, M. Legović, M. Šljaj, M. Lapter Varga, M. Žuvić Butorac and M. Kapović: Presence of Third Molar Germs in Orthodontic Patients with Class II/2 and Class III Malocclusions. *Collegium antropologicum* 33 (2009) 4: 1171-1175 <http://hrcak.srce.hr/51490>
27. M.Žuvić-Butorac, Z.Nebić: Institutional Support for E-learning Implementation in Higher Education Practice: a Case Report of University of Rijeka, Croatia. *Proceedings of the International Conference on Information Technology Interfaces ITI 2009*, art.no. 5196130, (2009) pp.479-484 <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5196130>
28. Batičić L., Varljen N., Žuvić-Butorac M., Kapović M., Varljen J. Potential Value of Hepatic Lipids from White Sea Bream (*Diplodus sargus*, L.) as a Good Source of Biomedical Components: Seasonal Variations. *Food Technol. Biotechnol.* 47 (3) 260-268 (2009). [http://hrcak.srce.hr/index.php?show=clanak&id\\_clanak\\_jezik=62476](http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=62476)
29. Kunišek, Juraj; Zaputović, Luka; Žuvić-Butorac Marta; Kunišek Leon; Lukin-Eškinja, Ksenija; Karlavaris, Rade; Bruketa-Markić, Irena. The prevalence of supraventricular arrhythmias with regard to the type and degree of left ventricular hypertrophy in patients with hypertensive heart disease. // *Wiener Klinische Wochenschrift.* 120 (2008) , 5-6; 171-177 <http://link.springer.com/article/10.1007%2Fs00508-008-0939-z>
30. Stimac D., Krznaric Zrnica I., Radic M., Zuvc-Butorac M. Outcome of the biliary acute pancreatitis is not associated with body mass index. *Pancreas.* 34(1)(2007):165-167. <http://www.ncbi.nlm.nih.gov/pubmed?term=12>.

31. Žuvić-Butorac M. Characteristics of categorical data analysis. *Acta Medica Croatica*, (2006) 60 Suppl 1, pp.63-79  
<http://www.ncbi.nlm.nih.gov/pubmed?term=%C5%BDuvi%C4%87-Butorac%2C%20M.%20Characteristics%20of%20categorical%20data%20analysis>
32. Žuvić-Butorac, Marta; Herak-Kramberger, Carol M.; Krilov, Dubravka; Sabolić, Ivan; Herak, Janko N. EPR study of lipid phase in renal cortical membrane organelles from intact and cadmium-intoxicated rats. *Biochimica Biophysica Acta - Biomembranes*. 1718 (2005) , 1-2; 44-52. <http://www.sciencedirect.com/science/article/pii/S0005273605003135>
33. Brajenović-Milić, Bojana; Tišlarić, Dubravka; Žuvić-Butorac, Marta; Bačić, Josip; Petrović, Oleg; Ristić, Smiljana; Mimica, Marko; Kapović, Miljenko. Elevated Second-trimester Free beta-hCG as an Isolated Finding and Pregnancy Outcomes. *Fetal Diagnosis and Therapy*. 19 (2004) , 6; 483-487.  
<http://content.karger.com/ProdukteDB/produkte.asp?Doi=80159>
34. Krilov D., Herak J.N., Žuvić-Butorac M., Stojanović N. Oxidation-induced spin probes in low-density lipoproteins. *Croatica Chemica Acta*. 77 (2004) ; 307-311. [http://public.carnet.hr/ccacaa/CCA-PDF/cca2004/v77-n1\\_n2/CCA\\_77\\_2004\\_307-311\\_krilov.pdf](http://public.carnet.hr/ccacaa/CCA-PDF/cca2004/v77-n1_n2/CCA_77_2004_307-311_krilov.pdf)
35. Baumgaertner A, Žuvić-Butorac M, Grudin S : Recent results from computer simulations of membrane channels and pumps, u S.G. Pandalai (urednik) *Recent Research Developments in Biophysics*, Vol.2, Transworld Research Network, Trivandrum, India, 2003.
36. Tišlarić, Dubravka; Brajenović-Milić, Bojana; Ristić, Smiljana; Latin, Višnja; Žuvić-Butorac, Marta; Bačić, Josip; Petek, Marjan; Kapović, Miljenko. The influence of smoking and parity on serum markers for Down's syndrome screening. *Fetal Diagnosis and Therapy*. 17 (2002) , 1; 17-21  
<http://content.karger.com/ProdukteDB/produkte.asp?Aktion=ShowAbstractBuch&ArtikelNr=47999&ProduktNr=227537>
37. Uhač, Ivone; Kovač, Zoran; Vukovojac, Stanislav; Žuvić-Butorac, Marta; Gržić, Renata; Delić, Zdravko. The effect of occlusal relationships on the occurrence of sounds in the temporomandibular joint. *Collegium Antropologicum*. 26 (2002) ; 285-292. [http://www.collantropol.hr/?id\\_0=2&year\\_id=85&vol\\_id=138](http://www.collantropol.hr/?id_0=2&year_id=85&vol_id=138)
38. Žuvić-Butorac M., Križ J., Simonić A., Schara M. Fluidity of the myelin sheath in peripheral nerves of diabetic rats. *Biochimica et Biophysica Acta*. 1537 (2001) , 2; 110-116.  
<http://www.sciencedirect.com/science/article/pii/S0925443901000631>
39. Žuvić-Butorac M., Batista U., Schara M. EPR spectra of cell membranes: A comparative study of erythrocytes and fibroblasts. // *Periodicum Biologorum*. 103 (2001) , 3; 235-240. <http://www.worldcat.org/title/epr-spectra-of-cell-membranes-a-comparative-study-of-erythrocytes-and-fibroblasts/oclc/441701278>
40. Žuvić-Butorac, Marta; Mueller, Peter; Pomorski, Tomas; Libera, Janette; Herrmann, Andreas; Schara, Milan. Lipid domains in the exoplasmic and cytoplasmic leaflet of human erythrocyte membrane ; a spin label approach. *European Biophysics Journal*. 28 (1999) ; 302-311.  
<http://link.springer.com/article/10.1007%2Fs002490050212#page-1>
41. Marta Zuvic-Butorac, Milan Schara, Urska Batista: Lateral heterogeneity of biomembranes. An EPR study on erythrocytes and fibroblasts, *Pfluegers Archiv European Journal of Physiology* vol. 431, br. 6, suppl.2, str. R169 (1996)
42. Bratanic, B.; Zuvic-Butorac, M.; Batista, U.; Nemec, M.; Schara, M.: Toxic effects of bilirubin on V-79 cells: II. EPR study of membrane structuring, *Pfluegers Archiv European Journal of Physiology* Volume: 431 Issue: 6 SUPPL. 2 Pages: R170 (1996) BCI:BCI199699074936
43. Radenovic C; Schara M; Stipcic-Solic N; Solic F; Zauhar G; Zuvic M: International Conference On The Biophysics of Membrane Transport Processes Opatija Yugoslavia May 14-18, *Studia Biophysica*, Vol138 Issue 1-2 p:8-196 (1990) BCI:BCI199141011454
44. Šolić, Franjo; Žuvić, Marta. Influence of ouabain on the resting potential of plant cell and isolated protoplasmic droplet. *Studia Biophysica* (1990) 138:169-173 WOS:A1990ER53000020
45. Bratanic, B.; Zuvic-Butorac, M.; Batista, U.; Nemec, M.; Schara, M.: Toxic effects of bilirubin on V-79 cells: II. EPR study of membrane structuring, *Pfluegers Archiv European Journal of Physiology* Volume: 431 Issue: 6 SUPPL. 2 Pages: R170 (1996) BCI:BCI199699074936
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47. Šolić, Franjo; Žuvić, Marta. Influence of ouabain on the resting potential of plant cell and isolated protoplasmic droplet. *Studia Biophysica* (1990) 138:169-173 WOS:A1990ER53000020+

## Papers in Conference Books

1. Anic, F; Zivic-Butorac M; Stimac, D; Novak, S. New classification criteria for systemic lupus erythematosus correlate with disease activity. *Clinical and Experimental Rheumatology* Volume: 33 Issue: 3 Pages: S76 Published: MAY-JUN 2015
2. Z Madzar, Z Cubranic, S Matijevic, V Tomulic, S Dvornik, M Zivic Butorac, L Zaputovic. Uric acid as a predictive biomarker of 30-day outcomes after acute myocardial infarction: A retrospective cohort study. *European Journal of Heart Failure*, Vol.11, Supplement (2012)
3. Kunišek, J ; Zaputovic, L ; Butorac, Zivic M.; Kunisek, L; Rapaic, SV:. The Impact of Individual Blood Pressure Components on the Type and Degree of the Left Ventricular Hypertrophy, *Kidney & Blood Pressure Research* (2010) vol 35. p. 422
4. Lara Batičić, Neven Varljen, Marta Žuvić-Butorac, Miljenko Kapović, Jadranka Varljen: Seasonal variations in the hepatic fatty acid compositions of *Diplodus Sargus* captured in the North Adriatic Sea, Croatia. *Congress of the Croatian Society of Biochemistry and Molecular Biology 2008, Osijek, 17-20.Sept 2008, Book of Abstracts*, p.65.
5. Krznarić-Zrnić, Irena; Radić, Mladen; Milić, Sandra; Šimin, Marija; Žuvić-Butorac, Marta; Štimac, Davor. Da li je debljina čimbenik rizika za razvoj teškog akutnog pankreatitisa? // *Knjiga sažetaka*. 2006. P2-P2.
6. Žuvić-Butorac, Marta; Herak-Kramberger, Carol-Mirna; Sabolić, Ivan; Krilov, Dubravka; Herak, Janko.EPR spectroscopic parameters for membrane organelles from rat kidney cortex // *Book of Abstracts "Spectroscopy in Theory and Practice" / Spectroscopic Section of the Slovenian Chemical Society (ur.).Nova Gorica, Slovenia, 2003. 60-60*
7. Žuvić-Butorac, Marta; Jurdana-Šepić, Rajka; Milotić, Branka.Constructivistic workshops for children in physics teacher education // *Second INTERNATIONAL GIREP Seminar on Quality Development in Teacher Education and Training Pre-seminar book / Longhetto, C. ; Michelini, M., Pugliese Jona, S. ; Stefanel, A (ur.).Udine : Physics department University of Udine, 2003. 63*
8. Batista, Urška; Žuvić-Butorac, Marta; Nemeč, Marjana; Schara, Milan.Experimental reasons for the scattering and drifts of measured reaction rates of nitroxides in cellular suspensions. T V-79 fibroblast problem // *12th International Symposium "Spectroscopy in theory and practice"*, Bled 2001. 111
9. Žuvić-Butorac, Marta; Križ, Jasna; Simonić, Ante; Schara, Milan.Structure and dynamics of myelin sheath in the peripheral nerves of diabetic rats - an ESR study // *3rd European Biophysics Congress / Bayley, P.M. ; Devaux, P.F. ; Go, N. ; Janmey, P. ; Parak, F.G. ; Rigler, R. ; Su (ur.).Muenchen, Germany : Springer Verlag, 2000. 354*
10. Žuvić-Butorac, Marta; Križ, Jasna; Simonić, Ante; Schara, Milan.Fluidity of the myelin sheath is changed in the peripheral nerves of diabetic rats. // *Life sciences conference 1999.Gozd Martuljek, Slovenija, 1999. 71*
11. Bratanič, Borut; Žuvić-Butorac, Marta; Batista, Urška; Nemeč, Marijana; Schara, Milan.The effect of bilirubin on the membrane lateral domain structure of mouse neuroblastoma cells // *Spectroscopy in Theory and Practice / Veber, M. (ur.).Ljubljana : Slovenian Chemical Society, 1997. 239-239*
12. Bratanič, Borut; Žuvić-Butorac, Marta; Batista, Urška; Nemeč, Marjana; Schara, Milan.Bilirubin affects the V-79 cell membrane lateral domain structure which is coupled with the molecular permeability. // *Spectroscopy in theory and practice.Bled, Slovenija, 1997. 71*
13. Bratanič, Borut; Žuvić-Butorac, Marta; Batista, Urška; Nemeč, Marjana; Schara, Milan.The effect of bilirubin on membrane lateral domain structure of mouse neuroblastoma cells // *Spectroscopy in theory and practice.Bled, 1997. 239*
14. Žuvić-Butorac, Marta; Schara, Milan; Nemeč, Marjana.Lateral and transversal heterogeneity of human erythrocyte membrane // *Supramolecular Structure and Function / Pifat-Mrzljak, Greta (ur.).Zagreb : Croatian Society of Natural Sciences, 1997. 153-153*
15. Žuvić-Butorac, Marta; Schara, Milan.EPR spectra of cell membranes: A comparative study on erythrocytes and fibroblasts // *9th Symposium "Spectroscopy in theory and practice".1995. 61*
16. Žuvić-Butorac, Marta; Schara, Milan.Lateral heterogeneity of biomembranes: an EPR study on erythrocytes and fibroblasts // *Life Sciences 1995 / Ribarič, Samo ; Zorec, Robert (ur.).Ljubljana : Physiological Society of Slovenia, 1995. 70*

## Papers in Conference Abstract Books

1. Lara Batičić, Neven Varljen, Marta Žuvić-Butorac, Miljenko Kapović, Jadranka Varljen: Seasonal variations in the hepatic fatty acid compositions of *Diplodus Sargus* captured in the North Adriatic Sea, Croatia. *Congress of the Croatian Society of Biochemistry and Molecular Biology 2008, Osijek, 17-20.Sept 2008, Book of Abstracts*, p.65.
2. Krznarić-Zrnić, Irena; Radić, Mladen; Milić, Sandra; Šimin, Marija; Žuvić-Butorac, Marta; Štimac, Davor. Da li je debljina čimbenik rizika za razvoj teškog akutnog pankreatitisa? // *Knjiga sažetaka*. 2006. P2-P2 (poster,sažetak,znanstveni).
3. Žuvić-Butorac, Marta; Herak-Kramberger, Carol-Mirna; Sabolić, Ivan; Krilov, Dubravka; Herak, Janko.EPR spectroscopic parameters for membrane organelles from rat kidney cortex // *Book of Abstracts "Spectroscopy in*

Theory and Practice" / Spectroscopic Section of the Slovenian Chemical Society (ur.).Nova Gorica, Slovenia : Politehnika, Nova Gorica, Slovenija, 2003. 60-60

4. Batista, Urška; Žuvić-Butorac, Marta; Nemeč, Marjana; Schara, Milan.Experimental reasons for the scattering and drifts of measured reaction rates of nitroxides in cellular suspensions. T V-79 fibroblast problem // 12th International Symposium "Spectroscopy in theory and practice", Bled 2001. 111
5. Žuvić-Butorac, Marta; Križ, Jasna; Simonić, Ante; Schara, Milan.Structure and dynamics of myelin sheath in the peripheral nerves of diabetic rats - an ESR study // 3rd European Biophysics Congress / Bayley, P.M. ; Devaux, P.F. ; Go, N. ; Janmey, P. ; Parak, F.G. ; Rigler, R. ; Su (ur.).Muenchen, Germany : Springer Verlag, 2000. 354
6. Schara, Milan; Bratanič, Borut; Žuvić-Butorac, Marta; Nemeč, Marjana; Batista, Urška.Membrane lateral domain structure involvement in scavenging of radicals // 3rd meeting of the slovenian biochemical society with international participation.Portorož, 1999. 86
7. Žuvić-Butorac, Marta; Križ, Jasna; Simonić, Ante; Schara, Milan.Fluidity of the myelin sheath is changed in the peripheral nerves of diabetic rats. // Life sciences conference 1999.Gozd Martuljek, Slovenija, 1999. 71
8. Bratanič, Borut; Žuvić-Butorac, Marta; Batista, Urška; Nemeč, Marjana; Schara, Milan.The effect of bilirubin on the membrane lateral domain structure of mouse neuroblastoma cells // Spectroscopy in Theory and Practice / Veber, M. (ur.).Ljubljana : Slovenian Chemical Society, 1997. 239-239
9. Bratanič, Borut; Žuvić-Butorac, Marta; Batista, Urška; Nemeč, Marjana; Schara, Milan.Bilirubin affects the V-79 cell membrane lateral domain structure which is coupled with the molecular permeability. // Spectroscopy in theory and practice.Bled, Slovenija, 1997. 71
10. Bratanič, Borut; Žuvić-Butorac, Marta; Batista, Urška; Nemeč, Marjana; Schara, Milan.The effect of bilirubin on membrane lateral domain structure of mouse neuroblastoma cells // Spectroscopy in theory and practice.Bled, 1997. 239
11. Žuvić-Butorac, Marta; Schara, Milan; Nemeč, Marjana.Lateral and transversal heterogeneity of human erythrocyte membrane // Supramolecular Structure and Function / Pifat-Mrzljak, Greta (ur.).Zagreb : Croatian Society of Natural Sciences, 1997. 153-153
12. Žuvić-Butorac, Marta; Schara, Milan.EPR spectra of cell membranes: A comparative study on erythrocytes and fibroblasts // 9th Symposium "Spectroscopy in theory and practice".1995. 61
13. Žuvić-Butorac, Marta; Schara, Milan.Lateral heterogeneity of biomembranes: an EPR study on erythrocytes and fibroblasts // Life Sciences 1995 / Ribarič, Samo ; Zorec, Robert (ur.).Ljubljana : Physiological Society of Slovenia, 1995. 70

#### Abstracts in Proceedings of international meetings

1. R.Jurdana-Šepić, M. Žuvić-Butorac, B.Milotić, B.Šaina: Modelling of early physical concepts in classroom and e-environment. GIREP Conference Modelling in Physics and Physics Education, Abstract book, Amsterdam, Netherlands, August. 2006, p. 124
2. Žuvić-Butorac, Marta; Jurdana-Šepić, Rajka; Milotić, Branka.Constructivist workshops for children in physics teacher education // / Michelini, Marisa (ur.).Udine, Italia : Forum Editrice Universitaria Udinese, 2004. 409-413 (sažetak, znanstveni rad).
3. Milotić, Branka; Žuvić-Butorac, Marta; Jurdana-Šepić, Rajka, Mandić, Magda.Konstruktivističke radionice za djecu u obrazovanju nastavnika fizike // 4. znanstveni sastanak HFD, knjiga sažetaka / Kumerički, Krešimir (ur.).Zagreb : HFD, 2003. 96

#### Papers published in the collection of papers from the domestic conferences

1. Jurdana-Šepić, Rajka; Milotić, Branka; Žuvić-Butorac, Marta: Projekti udruga u popularizaciji i unaprjeđivanju učenja i poučavanja fizike (NGO projects in physics communication and development of physics teaching and learning), Interaktivna nastava fizike / Pečina, Planinka (ed). - Zagreb : Hrvatsko fizikalno društvo , 2009. 94-98 (ISBN: 978-953-7178-13-0).
2. B. Milotić, M. Žuvić-Butorac, S. Rukavina, R. Jurdana-Šepić, J. Ledić: Promocija održivog razvoja kroz Festival znanosti u Rijeci, Cjeloživotno učenje za održivi razvoj, Učiteljski fakultet Sveučilišta u Rijeci, Rijeka, 2008., svezak 2, str. 321-326.
3. Kunišek, Juraj; Zaputović, Luka; Žuvić Butorac, Marta; Kunišek, Leon; Lukin-Eškinja, Ksenija; Bruketa-Markić, Irena: Imaju li pojedini oblici hipertrofije lijeve klijetke utjecaj na duljinu i disperziju QT intervala u hipertenzivnih bolesnika? (Do the particular types of left ventricular hypertrophy have influence on length and dispersion of the QT interval?) Kardio list. Supplement 2 / Ivanuša, Mario (ed). - Zagreb : Hrvatsko kardiološko društvo , 2007. 28-28.
4. Žuvić-Butorac, Marta; Milotić, Branka. Konstruktivističke radionice za nastavnike // Zbornik radova sa sedmog simpozija o nastavi fizike HFD / Buljubašić, Mladen ; Knežević, Stjepan (ur.).Split : HFD, 2005., 165-170.



## Editor in the Proceedings of international meetings

1. Frontiers of physics education, Selected contributions, Golden section Society, Rijeka, 2008, Jurdana-Sepic, R; Labinac V, Zuvc - Butorac M., Susac A. (eds), ISBN 978-953-55066-1-4
2. GIREP-EPEC Conference Opatija 2007, Book of abstracts, Faculty of Arts and Sciences, Rijeka 2007, Jurdana-Sepic, R; Zuvc - Butorac M., Labinac V, Susac A. (eds) ISBN 978-953-6104-57-4

## Other contributions (science communication)

Jurdana-Šepić, Rajka; Milotić, Branka; Rukavina, Sanja; Žuvić-Butorac, Marta, Arko-Pijevac, Milvana, Modrić, Željka: Znanstveno-popularne radio emisije iz prirodoslovlja i matematike "Baltazar" / „Baltazar“ - Radio broadcast in science and mathematics, CD 1-10, Udruga Zlatni rez Rijeka 2010-2015.

## Laboratory work

- Institut Ruđer Bošković, EPR Laboratory, EPR research, group leader prof. dr. sc. Janko Herak, 2003.- 2005.
- Institut za medicinska istraživanja i medicinu rada, research on cell structure, group leader prof. dr. sc. Ivan Sabolić, 2003. - 2004.
- Forschungszentrum Juelich, Germany, Computational Modelling in molecular biophysics, modelling of membrane proteins, group leader prof. dr. Artur Baumgaertner 2001.-2003.
- Department of Pharmacology, Medical faculty Rijeka, research on myelin sheath structure of peripheral nerves of diabetic rats, collaboration with Jasna Križ, group leader prof. dr. sc. Ante Simonić, 2000. -2002.
- Biophysics Laboratory Institute Jožef Stefan, Ljubljana, research on cell membrane structure by EPR, head of lab and group leader prof. dr. sc. Milan Schara, 1993.- 2003.
- Botanical Institute University Bonn, research on membrane channel proteins by patch-clamp method, group leader prof. dr. sc. Kurt Köhler, 1991.

## Projects

- Relevant assessment and pedagogies for inclusive digital education (RAPIDE), Erasmus+ projekt, QA manager, 2021.-2023.
- Biochemistry on a supercomputer: development of software tools, drug design and analysis of molecular mechanisms in disease development, UNIRI projects, project leader 2019. – 2023.
- Physics in public spaces, MZOS project, collaborator, 2007. – 2008.
- Development of scientific and mathematical literacy through active learning, MZOS project, collaborator, 2007. – 2009.
- Free radicals in biological systems, MZT project, collaborator, 2002. – 2004.
- Experiment in constructing physical models and concepts, MZT project, collaborator, 2002. – 2004.
- Prenatal screening test for Down syndrome and neural tube defects, MZT project, consultant, 2002. – 2004.
- Hokus-pokus-physics, MZOS project, collaborator, 2003. – 2005.
- Classroom environment - conceptual physics workshops for students and teachers, MZOS project, collaborator, 2001. – 2005.
- The influence of the environment on the structure and potential of the cell membrane, MZT project for young researchers, project lead, 1998. – 2001.
- Influence of different factors on cell membrane potential, MZT project, collaborator, 1997. – 2000.
- Influence of chemical factors on cell membrane potential, MZT project, collaborator, 1995. – 1998.

## Active participation on international conferences

- Informing Science and IT Education InSITE 2011, Novi Sad, Srbija (2011)
- Information Technology Interfaces ITI 2009 Cavtat, Hrvatska (2009)
- Congress of the Croatian Society for Biochemistry and Molecular Biology Osijek, Croatia (2008)
- Quality Management and Communication in Higher Education, Korčula, Croatia (2007)
- GIREP EPEC Conference Frontiers of Physics Education, Opatija, Croatia (2007)
- GIREP Conference on Modelling in Physics and Physics Education, Amsterdam; Netherlands (2006)
- 3rd International GIREP Seminar on Informal Learning and Public Understanding of Physics, Ljubljana, Slovenia (2005)
- International Conference: Teaching Physics in Europe – exchanging experiences between EU countries and their neighbours, Linz, Austria (2004)
- 13th International Symposium Spectroscopy in Theory and Practice, Nova Goriza, Slovenija (2003)
- Quality Development in Teacher Education and Training, 2nd International Girep Seminar, Italija (2003)
- International workshop on lipid-protein interactions, Gomadigen, Germany (2002)
- 12th International Symposium "Spectroscopy in theory and practice", Bled, Slovenia (2001)

- 3rd European Biophysics Congress, Munchen, Germany (2000)
- 3rd international Dubrovnik NMR course/conference, Dubrovnik, Croatia (2000)
- 3rd Meeting of the slovenian biochemical society, Portorož, Slovenia (1999)
- Life Sciences Conference, Gozd Martuljek, Slovenia (1999)
- 10th Symposium “Spectroscopy in theory and practice”, Bled, Slovenia (1997)
- 4th International Summer School on Biophysics Supramolecular Structure and Function (1997)
- Life sciences 95, Gozd Martuljek, Slovenia (1995)
- 9th Symposium “Spectroscopy in theory and practice”, Bled, Slovenia (1995)

#### **Invited lectures**

- Membrane lateral domain structure involvement in scavenging of radicals // 3rd meeting of the slovenian biochemical society with international participation. Portorož, 1999.
- EPR in research of structure and dynamics of cell membranes, 1. Scientific meeting of Croatian Biophysics, Zagreb 1999.
- Structure and dynamics of cell membranes, Mathematics and Physics Society Rijeka, 2002.

#### **Reviewer**

- International Journals: Biochimica Biophysica Acta, Biochemia Medica, Journal of Pharmacy and Farmacology, International Journal of Science and Technology Education Research, Jordanian Journal of Computers and Information Technology, Medicina Fluminensis
- Ministry: i-projects reviewer
- MIPRO conference: reviewer of submitted contributions

## PROFESSIONAL WORK

### Book

Sanja Rukavina, Branka Milotić, Rajka Jurdana-Šepić, Marta Žuvić-Butorac, Jasminka Ledić: Razvoj prirodnoznanstvene i matematičke pismenosti aktivnim učenjem, Udruga Zlatni rez Rijeka 2010, ISBN 978-953-55066-2-1.

### Professional projects

- Feasibility study with a cost-benefit analysis as part of the project "e-Schools: Establishment of a system for the development of digitally mature schools (pilot project)", CARNet, 2018.
- Development of the Framework for digital competences of users in school and the Manual for the use of the Framework for digital competences, CARNet e-school project, 2016, project manager
- Development and preparation of the Croatian Qualification Framework in the field of higher education of civil engineers, ESF project, external expert, 2015-2016.
- RICOOUNT – Development and implementation of lifelong education using new technologies, project manager, 2012-2014.
- Education Quality Improvement by E-learning Technology, Tempus project, project manager for the University of Rijeka, 2006 - 2009.
- Competitive Croatian Higher Education for better Employment, external expert, IPA project 2014-2016 (IPA4.1.3.1.06.01.c10-P13)
- Partners in learning – University of Rijeka and Microsoft Croatia, project team leader, 2005 – 2008.

### Invited professional lectures on international meetings

- Improving learning and teaching through institutional collaboration supported by ICT: Experiences from University of Rijeka, Croatia, CARNet, 2011.
- Education Quality Improvement by E-learning technology, Quality Management and Communication in Higher Education, Korčula 2007.
- University of Rijeka – e-university, Tempus EQBELT 1st Policy Workshop on Creating University E-Learning Vision and Strategy, Dubrovnik, 2006.
- Workshops in physics – from kitchen to www // International Conference: Teaching Physics in Europe – ; exchanging experiences between EU-countries and their neighbours Linz, Austria, 2005.

### Lecture and work on domestic conference

- Research on students' attitudes after active learning of mathematics and science, 1. Days of educational sciences, Zagreb, October 2012.
- IT academy of the University of Rijeka and programs of lifelong education, CARNet Users Conference 2007 - User in focus, Thematic unit: Trends in education, Rijeka, November 2007.
- Constructivist workshops for physics teachers, professional training seminar for physics teachers, May 11, 2006, invited lecture, Institute of Education

### Public lectures

- Investigation of student attitudes after active learning of mathematics and science, DMF Rijeka, 2012.
- Presentation of the new Strategy for the development of e-learning at the University of Rijeka, E-day of the University of Rijeka, 2011.
- E-learning at the University of Rijeka: what have we done in the past year?, E-day of the University of Rijeka, 2010.
- E-learning at the University of Rijeka - where are we and where are we going?, E-day of the University of Rijeka, 2009.
- University of Rijeka - an example of an institutionally supported e-learning introduction model, SRCE, Zagreb, 2009.
- Presentation of the results of the Tempus project EQBELT at the University of Rijeka, Rectorate of the University of Zagreb, 2009.
- Preliminary results of the pilot project for the introduction of e-learning at the Faculty of Medicine in Rijeka, Seminar E-learning - the challenge of modern higher education teaching, Zagreb, 2005.

### Other professional publications

- E-learning in teaching practice - a new education program for teachers of the University of Rijeka, 2008, Bulletin EQBELT, no. 5, ISSN 1845-7991
- E-learning strategy of the University of Rijeka, 2007, Bulletin EQBELT, no. 4, ISSN 1845-7991
- The Senate of the University of Rijeka accepted the Strategy for the introduction of e-learning 2006-2010, 2006, Bulletin EQBELT, No. 3, ISSN 1845-7991
- E-learning – new technologies in higher education, 2005, EQBELT Bulletin, No. 1, ISSN 1845-79911

## TEACHING WORK

### Textbooks

1. Ažman, J; Bača, M; Barić, D; Baždarić, K; Bilić-Zulle, L; Biloglav, Z; Božikov, J; Brumini, G; Cej, D; Deželić, G; Fišter, K; Frković, V; Galijašević, G; Gvozdanović, D; Heim, I; Hercigonja-Szekeres, M; Hudeček, L; Ilakovac, V; Illeš, D; Jezidžić, H; Karelović, D; Katić, M; Kern, J; Končar, M; Majdančić, Ž; Marinac, V; Markota, M; Mavrinac, M; Mihaljević, M; Petrak, J; Petrovečki, M; Polašek, O; Pupovac, V; Raunić, D; Stevanović, R; Strnad, M; Sutlić, Ž; Svetić Čišić, R; Šimundić, A; Valentić-Peruzović, M; Vuković, Dinka; Žuvić-Butorac, M. MEDICINSKA INFORMATIKA / Kern,,; Petrovečki, (ur.), Zagreb : Medicinska naklada, 2009., ISBN 978-953-176-418-6
2. Marta Žuvić-Butorac, Gordana Brumini: FIZIKA, udžbenik, ISBN 978-953-6911-28-8, Rijeka 2008.

### Introduction of new courses (proposer and head of the course)

2013. STATISTICS AND DATA ANALYSIS IN SCIENTIFIC RESEARCH, graduate studies of Drug research and development, Biotechnology in medicine and Medicinal chemistry, Department of Biotechnology, University of Rijeka (60 P, 6 ECTS, e-course).
2013. BIOPHYSICS, undergraduate study of Biotechnology and drug research, Department of Biotechnology, University of Rijeka (30 P, 3 ECTS, e-course)
2009. PHYSICS FOR BIOMEDICINE, undergraduate study of computing, Technical faculty, University of Rijeka(30 P + 15 S + e-course, 4 ECTS)  
IMAGING TECHNIQUES, undergraduate study of computing, Technical faculty, University of Rijeka(30 P + 30 V + e-course, 4 ECTS)
2005. INFORMATION SYSTEMS IN MEDICINE, undergraduate program of Management in medicine, Medical Faculty, University of Rijeka (30 P+S, e-course, 4 ECTS)

### Introduction of new LLL programms (proposer)

2009. E-UČENJE U NASTAVNOM PROCESU, program cjeloživotnog obrazovanja (3 ECTS)

### Delivery of Teaching

- Lectures STATISTICS AND DATA ANALYSIS IN SCIENTIFIC RESEARCH, graduate studies of Drug research and development, Biotechnology in medicine and Medicinal chemistry, Department of Biotechnology, University of Rijeka (2013.-)
- BIOPHYSICS, undergraduate study of Biotechnology and drug research, Department of Biotechnology, University of Rijeka (2013.-)
- INTRODUCTION TO MODERN PHYSICS, undergraduate study of shipbuilding, Technical faculty, University of Rijeka, 2012.,- present
- IMAGING TECHNIQUES, undergraduate study of computing, Technical faculty, University of Rijeka, 2011.,-2013.
- PHYSICS FOR BIOMEDICINE, undergraduate study of computing, Technical faculty, University of Rijeka, 2011.,-
- INFORMATION SYSTEMS IN MEDICINE, undergraduate program of Management in medicine, Medical Faculty, 2005.-2009.
- PHYSICS AND ELECTRONICS occupational program for physiotherapists Medical Faculty Rijeka 1997-2004.
- SCIENCE for primary school teachers , Faculty of Arts and Sciences, University of Rijeka 1993-1998. ; 2014.

### Participoation in lectures

- BIostatistics, Medicine, Medical Faculty, Unviersity of Rijeka, course leader prof.dr.sc. Gordana Žauhar (20 P) 2013./14. – 2018./19.
- INTRODUCTION TO PSYCHOLOGY, Psychology, Faculty of Humanities , University of Rijeka, course leader prof.dr.sc. Mladenka Tkalčić (4 P) 2013./14. – 2018./19.

### Seminars

- SEMINARS IN PHYSICS AND BIOPHYSICS study of Medicine, Medical Faculty Rijeka 2000-2004.
- PRACTICALS IN EXPERIMENTAL CLASSROOM WORK students of mathematics and physics, 1995-2000.
- PRACTICALS IN PHYSICS I students of mathematics and physics Faculty of Arts and sciences, 2006.
- PRACTICALS IN PHYSICS II students of mathematics and physics Faculty of Arts and sciences, 2005.

Practicals PRACTICALS OF PHYSICAL MEASUREMENT occupational program for physiotherapists Medical Faculty Rijeka 2000-04.  
PRACTICALS IN PHYSICS AND BIOPHYSICS study of Medicine, Medical Faculty Rijeka 1990-2004.  
PRACTICALS IN BIOSTATISTICS study of Medicine, Medical Faculty Rijeka (1998-2000).

### **Postgraduate programs**

#### Doctoral Studies

Lectures SCIENTIFIC RESEARCH METHODOLOGY IN MEDICINE, Doctoral study of Medicinal Chemistry, Department of Biotechnology, University of Rijeka (20 hours, 5 ECTS), 2014./15. -  
METHODS OF MEDICAL INFORMATICS IN RESEARCH, doctoral study program Biomedicine, University of Rijeka, participation in Lectures (head: prof.dr.sc. Mladen Petrovečki), 6 hours (2012.-)

### **LLL programmms**

E-LEARNING IN TEACHING, LLL programme, University of Rijeka, lecturer 2009. – 2012.  
STATISTICAL METHODOLOGY OF SCIENTIFIC WORK, continuing education for MDs, 2004.- 2006.

## OTHER CONTRIBUTIONS

### Work in international organisations

- Member of the European University Association Learning & Teaching Steering Committee, mandates 2020. – 2022., 2022. – 2024.
- Member of the European Association for Quality Assurance in Higher Education (ENQA) skupine recenzentata, 2023. –

### National committees and working groups

- Working group for internationalization issues (president), Rector's Choir of the Republic of Croatia, 2023 - 2024.
- Committee for the improvement of the admission process to higher education institutions, Agency for Science and Higher Education, 2021 - 2022.
- Working group for the preparation of the draft proposal for the Rulebook on recognition and evaluation of non-formal and informal learning, Ministry of Science, Education and Sports, 2014-2015.

### University committees, boards and working groups

- Expert Council for Learning and Teaching, leader 2019 -
- Committee for quality assurance and improvement of the University of Rijeka, 2019. –
- Committee for online learning of the University of Rijeka, 2021. –
- UNIRI Alumni Network, leader, 2020 - 2024.
- Expert council of speech therapy studies, 2020 - 2024.
- Working group for the development of the study program of the integrated study of Pharmacy, University of Rijeka, 2019-2020.
- Committee for Lifelong Education of the University of Rijeka, 2014-2015.
- Committee for e-learning of the University of Rijeka (president), 2006 – 2015.
- Committee for publishing activities of the University of Rijeka, 2013-2014.
- Working group for defining the conditions and standards of teaching quality related to distance learning of the University of Rijeka, 2012.
- Committee for recognition of prior learning of the University of Rijeka, 2008 - 2010.
- Committee for elaboration of the postgraduate specialist study Learning and teaching in higher education, University of Rijeka, 2008-2013.
- Expert Committee of the Foundation of the University of Rijeka, 2008.
- Committee for the creation of a new study program for the undergraduate study of Computer Science, 2007-2008.
- Committee for the improvement of teaching at the University of Rijeka, 2001 - 2004.
- Committee for the admission of university students of the Faculty of Medicine, University of Rijeka, 1997 - 2003..

### Preparation of strategic documents

- Strategic framework for the internationalization of Croatian universities, Rectors' Council of the Republic of Croatia, 2023.
- Strategy of the University of Rijeka 2021-2025, University of Rijeka, 2021.
- E-learning development strategy at the University of Rijeka 2011-2015, University of Rijeka, 2011.
- Strategy for the introduction of e-learning at the University of Rijeka 2006 - 2010, University of Rijeka, 2006..

### Organization of events

- Organization Committee of Science Festival Rijeka, 2003.-2012.
- Organization Committee (pres) Course Development in e-learning environment, Rijeka, 2008.
- Organization Committee (co-pres.) international conference „Frontiers in Physics Education“ GIREP-EPEC2, Opatija, 2007.

### NGO work

- Golden Section, society for development of science and mathematics education, founder and president 2004.-2016.
- Universitas, society for the development of higher education, founder (in 2000.) and board member (2007-2015), president 2015.-2017.
- Society of Mathematicians and Physicists Rijeka, member since 1990., board member 1998-2000.
- Croatian Physical Society, member since 1998.
- Croatian Biophysical Society, member since 1991., board member 1998-2002.
- Informing Science Institute, member since 2011.

### Interviews

- THE PIE: Five mins with Marta Zuvic, University of Rijeka, Croatia, <https://thepienews.com/marta-zuvic-university-of-rijeka/> 2023.
- Science reaches those places in humans that capital cannot, <http://intervju.org> 2010.