

Curriculum Vitae

PERSONAL DATA

Name and surname	Tatjana Gazivoda Kraljević
Academic title	Assistant Professor
Year and institution of PhD obtained	2007, Faculty of Science
Address	Marulićev trg 20
Phone	01-4597-215
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E-mail	tgazivod@fkit.hr
Citizenship	Croatian
Date and place of birth	January 25 th , 1975. Koprivnica

WORK EXPERIENCE

Date (from – until)	2011. - today
Institution	Faculty of Chemical Engineering and Technology
Position	Assistant Professor
Work field	Synthetic organic and medicinal chemistry
Date (from – until)	2007-2011.
Institution	Faculty of Chemical Engineering and Technology
Position	Scientific novice, higher assistant
Work field	Synthetic organic and medicinal chemistry
Date (from – until)	2000-2007.
Institution	Faculty of Chemical Engineering and Technology
Position	Scientific novice, assistant
Work field	Synthetic organic and medicinal chemistry

EDUCATION

Date	2.3.2007.
Place	Zagreb
Institution	Faculty of Science
Title of qualification awarded	PhD in natural science
Date	31.3.2000.
Place	Zagreb
Institution	Faculty of Chemical Engineering and Technology
Title of qualification awarded	B.Sc. in chemical technology

LANGUAGES

MOTHER TONGUE	croatian
ENGLISH LANGUAGE	yes
speaking	very good
writing	very good
reading	very good

RESEARCH AND OTHER PROJECTS

1. leader of croatian-slovenian project „Synthesis and cytostatic activities of the novel pyrrolo[2,3-d]pyrimidine derivatives”, 2014-
2. collaborator on the project „Synthesis and cytostatic evaluations of novel nitrogen heterocycles library“, 2014- , HRZZ.
3. collaborator on the project „Development of new tracer molecules for positron emission tomography (PET)" 2007- , Ministry of Science, Education and Sport of the Republic of Croatia.
4. collaborator on the project „Development of novel therapeutic and diagnostic substances for gene therapy of cancer”, 2001-2006.
5. collaborator on the project „Synthesis, structural and biological evaluations of modified nucleosides and their L-ascorbic acid and aminoacids derivatives with potential antiviral and antitumor activities”, 1996-2000, Ministry of Science and Tehnology of the Republic of Croatia.
6. collaborator on the project "Development of new nucleoside mimetic as PET tracer", 2011-2013 Foundation of Development of University of Zagreb, programme "World".
7. collaborator on the project “Development of novel C-5 fluoroalkyl *N*-acyclic pyrimidine nucleoside analogs as PET tracers for *in situ* monitoring of gene and cell-based therapies using HSV 1-TK as a reporter gene“, 2009-2013, Swiss National Science Foundation.
8. collaborator on the project „Development of new therapeutic substances for enzyme prodrug gene-therapy of cancer”, 2000-2003, COST project (Action D-13).

TEACHING

Undergraduate study:

- Organic Chemistry (2011/2012, 2013/2014, 2014/2015)
- Heterocyclic Chemistry (2012/2013, 2013/2014)
- Biochemistry (2012/2013, 2013/2014, 2014/2015)
- Environmental Chemistry (2013/2014)

Graduate study:

- Heterocyclic Chemistry (2012/2013, 2013/2014)
- Structure Determination of Organic Compounds (2012/2013, 2013/2014)
- Organic Chemistry in Drug Development (2013/2014)

Participation in seminars:

- Spectroscopic Methods in Organic Chemistry (2007/2008)

Participation in laboratory practice:

- Organic Chemistry (2005/2006-2010/2011)
- Drugs and protection products of plant (2001/2002-2005/2006)
- Chemistry of Natural Compounds (2004/2005-2010/2011)
- Chemistry of Natural and Synthetic Polymers, (2008/2009, 2010/2011)
- Chemical-technology practice (2001/2002-2010/2011)

MENTORSHIPS OF DOCTORAL AND MASTER DISSERTATIONS AND TRAINING OF YOUNG RESEARCHERS AND SCIENTISTS

Supervisor of 3 Bachelor's degree works and 7 Final master works, self-actuated supervisor of 6 Bachelor's degree works and 12 Final master works, self-actuated supervisor of 1 scientific work awarded by rector of University of Zagreb.

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

Croatian Chemical Society (HKD), AMACIZ

COMMISSIONS, COMMITTEES, BOARDS AND WORK GROUPS

- 1.) Member of the Expert Council of the Military Engineering and Military leadership and management study, 2014-
- 2.) Coordinator at FKIT in the development and implementation of study programs Military leadership and management and the Military Engineering, 2013-
- 3.) Member of the Working Group for the development of undergraduate university study programs of Military Engineering of the University of Zagreb and the Croatian Military Academy "Petar Zrinski", 2013.

PAPERS

CC scientific papers:

No.	References	IF	Cit ^a	Q ^b
1.	S. Raić-Malić, D. Svedružić, T. Gazivoda , A. Marunović, A. Hergold-Brundić, A. Nagl, J. Balzarini, E. De Clercq, M. Mintas: "Synthesis and Antitumor Activities of Novel Pyrimidine Derivatives of 2,3-O,O-Dibenzyl-6-deoxy-L-Ascorbic Acid and 4,5-Didehydro-5,6-Dideoxy-L-ascorbic Acid", <i>J. Med. Chem.</i> 43 (2000) 4806-4811.	4.134	40	N/A
2.	S. Prekupec, D. Svedružić, T. Gazivoda , D. Mrvoš-Sermek, A. Nagl, M. Grdiša, K. Pavelić, J. Balzarini, E. De Clercq, G. Folkers, L. Scapozza, M. Mintas, S. Raić-Malić: "Synthesis and Biological Evaluation of Iodinated and Fluorinated 9-(2-Hydroxypropyl) and 9-(2-Hydroxyethoxy)methyl Purine Nucleoside Analogues", <i>J. Med. Chem.</i> 46 (2003) 5763-5772.	4.820	15	Q1
3.	K. Wittine, T. Gazivoda , M. Markuš, D. Mrvoš-Sermek, A. Hergold-Brundić, M. Cetina, D. Žiher, V. Gabelica, M. Mintas, S. Raić-Malić: "Crystal Structures, Circular Dichroism Spectra and Absolute Configurations of Some L-Ascorbic Acid Derivatives", <i>J. Mol. Struct.</i> 687 (2004) 101-106.	1.200	9	Q3
4.	T. Gazivoda , M. Plevnik, J. Plavec, S. Kraljević, M. Kralj, K. Pavelić, J. Balzarini, E. De Clercq, M. Mintas, S. Raić-Malić: "The Novel Pyrimidine and Purine Derivatives of L-ascorbic Acid: Synthesis, One- and Two-Dimensional ¹ H and ¹³ C NMR Study, Cytostatic and Antiviral Evaluation", <i>Bioorg. Med. Chem.</i> 13 (2005) 131-139.	2.286	21	Q2
5.	T. Gazivoda , K. Wittine, I. Lovrić, D. Makuc, J. Plavec, M. Cetina, D. Mrvoš-Sermek, L. Šuman, M. Kralj, K. Pavelić, M. Mintas, S.	1.703	8	Q3

- Raić-Malić: "Synthesis, Structural Studies and Cytostatic Evaluation of 5, 6-di-O-Modified L-Ascorbic Acid Derivatives", *Carbohydr. Res.* **341** (2006) 433-442.
6. **T. Gazivoda**, M. Šokčević, M. Kralj, L. Šuman, K. Pavelić, E. De Clercq, G. Andrei, R. Snoeck, J. Balzarini, M. Mintas, S. Raić-Malić: "Synthesis, Antiviral and Cytostatic Evaluations of the New C-5 Substituted Pyrimidine and Furo[2,3-d]pyrimidine-4,5-Didehydro-L ascorbic Acid Derivatives", *J. Med. Chem.* **50** (2007) 4105-4112. 4.895 18 Q1
 7. **T. Gazivoda**, S. Raić-Malić, M. Marjanović, M. Kralj, K. Pavelić, J. Balzarini, E. De Clercq, M. Mintas: "The Novel C-5 Aryl, Alkenyl and Alkynyl Substituted Uracil Derivatives of L-Ascorbic Acid: Synthesis, Cytostatic and Antiviral Activity Evaluations", *Bioorg. Med. Chem.* **15** (2007) 749-758. 2.662 27 Q2
 8. **T. Gazivoda**, S. Krištafor, M. Cetina, A. Nagl, S. Raić-Malić: "Synthesis and structural studies of C-5 aryl and C-6 alkyl substituted pyrimidine derivatives", *Struct. Chem.* **19** (2008) 441-449. 1.433 7 Q2
 9. **T. Gazivoda**, S. Raić-Malić, V. Krištafor, D. Makuc, J. Plavec, S. Bratulić, S. Kraljević-Pavelić, K. Pavelić, L. Naesens, G. Andrei, R. Snoeck, J. Balzarini, M. Mintas: "Synthesis, Cytostatic and Anti-HIV Evaluations of the New Unsaturated Acyclic C-5 Pyrimidine Nucleoside Analogues", *Bioorg. Med. Chem.* **16** (2008) 5624-5634. 3.075 16 Q1
 10. **T. Gazivoda**, S. Raić-Malić, A. Hergold-Brundić, M. Cetina: "Synthesis and Structural Characterization of the 5-(2-Haloethyl)Pyrimidines – Hydrogen-Bonded chains in alpha-(1-Carbamyliminomethylene)-gamma-Butyrolactone", *Molecules* **13** (2008) 2786-2795. 1.252 1 Q3
 11. S. Krištafor, **T. Gazivoda**, M. Cetina, S. Raić-Malić: "Synthesis and structural characterization of the C-6 fluoroalkylated pyrimidine derivatives", *J. Mol. Struct.* **923** (2009) 19-23. 1.551 3 Q3
 12. S. Kurajica, G. Mali, **T. Gazivoda**, J. Šipušić, V. Mandić: "A spectroscopic study of calcium aluminate gels obtained from aluminium sec- butoxide chelated with ethyl acetoacetate in various ratios", *J. Sol-Gel Sci. Techn.* **50** (2009) 58-68. 1.393 4 Q1
 13. S. Krištafor, **T. Gazivoda Kraljević**, D. Makuc, J. Plavec, L. Šuman, M. Kralj, S. Raić-Malić: "Synthesis, Structural Studies and Antitumoral Evaluation of C-6 Alkyl and Alkenyl Side Chain Pyrimidine Derivatives", *Molecules* **14** (2009) 4866-4879. 1.738 5 Q3
 14. **T. Gazivoda Kraljević**, S. Krištafor, L. Šuman, M. Kralj, S. M. Ametamey, M. Cetina, S. Raić-Malić: "Synthesis, Structural Studies and Antitumoral Evaluation of C-6 Alkyl and Alkenyl Side Chain Pyrimidine Derivatives", *Bioorg. Med. Chem.* **18** (2010) 2704-2712. 2.978 12 Q2
 15. M. Martić, L. Pernot, Y. Westermaier, R. Perozzo, **T. Gazivoda Kraljević**, S. Krištafor, S. Raić-Malić, L. Scapozza, S. Ametamey: "Synthesis, Crystal Structure and In Vitro Biological Evaluation of C-6 Pyrimidine Derivatives: New Lead Structures for Monitoring Gene Expression in vivo", *Nucleosides, Nucleotides and Nucleic Acids* **30** (2011) 103-112. 0.899 5 Q4

- (2011) 293-315.
16. S. Krištafor, **T. Gazivoda Kraljević**, S. M. Ametamey, M. Cetina, I. Ratkaj, R. Tandara Haček, S. Kraljević Pavelić, S. Raić-Malić: "Synthesis, X-ray Crystal Structure Study and Antitumoral Evaluations of 5, 6-Disubstituted Pyrimidine Derivatives", *Chemistry & Biodiversity* **8** (2011) 1455-1469. 1.804 3 Q2
 17. S. Krištafor, I. Novaković, **T. Gazivoda Kraljević**, S. Kraljević Pavelić, P. Lučin, Y. Westermaier, L. Pernot, L. Scapozza, S. Ametamey, S. Raić-Malić: "A new N-methylthymine derivative comprising a dihydroxyisobutenyl unit as ligand for thymidine kinase of herpes simplex virus type 1 (HSV-1 TK)", *Bioorg. Med. Chem. Lett.* **21** (2011) 6161- 6165. 2.554 6 Q2
 18. **T. Gazivoda Kraljević**, M. Petrović, S. Krištafor, D. Makuc, J. Plavec, T. L. Ross, S. Ametamey, S. Raić-Malić: "Methoxymethyl (MOM) group nitrogen protection of pyrimidines bearing C-6 acyclic side-chains", *Molecules* **16** (2011) 5113-5129. 2.386 3 Q2
 19. U. Müller, M. Martić, **T. Gazivoda-Kraljević**, S. Krištafor, C. Ranadheera, A. Müller, M. Born, S. D. Krämer, S. Raić-Malić, S. M. Ametamey: "Synthesis and evaluation of a C-6 alkylated pyrimidine derivative for in vivo imaging of HSV1-TK gene expression" *Nucl. Med. Biol.* 2012 (**39**) 235-246. 2.517 4 Q2
 20. **T. Gazivoda Kraljević**, M. Klika, M. Kralj, I. Martin-Kleiner, S. Jurmanović, A. Milić, J. Padovan, S. Raić-Malić: "Synthesis, cytostatic activity and ADME properties of C-5 substituted and N-acyclic pyrimidine derivatives", *Bioorg. Med. Chem. Lett.* 2012 (**22**) 308-312. 2.338 Q2
 21. **T. Gazivoda Kraljević**, A. Bistrovic, M. Dedić, S. Kraljević Pavelić, M. Sedić, S. Raić-Malić, "Efficient palladium-mediated or base-induced 5-endo-dig cyclisation of C5-alkynylated pyrimidine derivatives: conventional and microwave-assisted synthesis of novel furo[2, 3-*d*]pyrimidines", *Tetrahedron Lett.* 2012 (**53**) 5144-5147. 2.397 1 Q2
 22. **T. Gazivoda Kraljević**, N. Ilić, V. Stepanić, L. Sappe, J. Petranović, S. Kraljević Pavelić, S. Raić-Malić, "Synthesis and *in vitro* antiproliferative evaluation of novel *N*-alkylated 6-isobutyl- and propyl pyrimidine derivatives", *Bioorg. Med. Chem. Lett.* 2014 (**24**) 2913-2917. 2.331 Q2
 23. S. Kurajica, J. Popović, **T. Gazivoda Kraljević**, E. Tkalčec, I. Simčić, V. Mandić, A. Altomare, A. Moliterni, X. Rocquefelte, "A structural investigation of tris(ethyl acetoacetate)aluminium (III)", *J. Sol-Gel Sci. Techn.* 2014 (**71**) 217-224. 1.66 Q1
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OTHER RESEARCH ACTIVITIES

Reviewer for several international and domestic scientific journals (*Bioorganic and medicinal chemistry, Journal of Fluorine Chemistry, Molecules, Croatica Chemica Acta*).

COMPUTER SKILLS

Familiar with Windows and MS-DOS operating systems, Proficient in MS Office, CorellDraw, ChemDraw, OriginPro.

OTHER IMPORTANT SKILLS AND COMPETENCES

Instrumentation experience in IR spectroscopy, UV/Vis spectroscopy, microwave oven for organic synthesis, LC/MS.