



## Curriculum Vitae

### Personal information

First name / Surname

Address

Telephone

Fax

E-mail(s)

Website(s)

Nationality

**Radu Tamaian**

4<sup>th</sup> Uzinei Street, 240050 – Râmnicu Vâlcea, VL, ROMANIA

+4-0250-732744 (189)

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[radu.tamaian@icsi.ro](mailto:radu.tamaian@icsi.ro)

<http://orcid.org/0000-0001-6380-1460>

<http://www.researcherid.com/rid/G-4073-2011>

<https://www.scopus.com/authid/detail.uri?authorId=23478435600>

Romanian

### Occupational field

### Research, Development and Innovation

#### Work experience

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

**September 04, 2015 – present**

Administrator

Management

SC Biotech Corp SRL, 4<sup>th</sup> Uzinei Street, Office C52, 240050 – Ramnicu Valcea, VL, Romania

Biotech / bioprocessing / nanobiotechnology / CADD (computer assisted drug design)

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

**December 11, 2006 – present**

Scientific researcher – 3<sup>rd</sup> degree (principal investigator);

Computer assisted drug design (CADD); Experimental research in the field of therapeutics in the areas of immunology and oncology; Controlled drug delivery; Bioprocessing; Bioinformatics; Food and clinical proteomics (including here dedicated PCA software); Clinical microbiology (AST using Merlin MICRONAUT automated system, including here QC and statistics software).

National Research and Development Institute for Cryogenics and Isotopic Technologies – I.C.I.T.

Ramnicu Valcea, 4<sup>th</sup> Uzinei Street, 240050 – Ramnicu Valcea, VL, Romania

Research, development and innovation

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

**October 01, 2004 – December 10, 2006**

Scientific researcher (research fellow)

Experimental research in the field of deuterium depleted water – effects over animal health status (immunology and oncology)

National Research and Development Institute for Cryogenics and Isotopic Technologies – I.C.I.T.

Ramnicu Valcea, 4<sup>th</sup> Uzinei Street, 240050 – Ramnicu Valcea, VL, Romania

Research, development and innovation

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

**October 2, 2000 – September 30, 2004**

Biologist (not accredited in the Romanian R&D system)

Monitoring and microbiological control at production of deuterium depleted water

National Research and Development Institute for Cryogenics and Isotopic Technologies – I.C.I.T.

Ramnicu Valcea, 4<sup>th</sup> Uzinei Street, 240050 – Ramnicu Valcea, VL, Romania

Experimental pilot plant (small-scale production installation)

### Education and training

Dates

Title of qualification awarded

Principal subjects/occupational skills covered

Name and type of organisation providing education and training

Level in national or international classification

**February 10, 2015 – December 30, 2016**

Post-doctoral fellowship

Biological Sciences / Title: "Design and development of biohybrid nanomaterials and bioconjugates for controlled delivery/release of farmacoactive agents".

3Nano-SAE Research Centre, Faculty of Physics, University of Bucharest, Romania

ISCED LEVEL 8 – Doctoral or equivalent / 84 Doctoral or equivalent academic / 844

Dates **April 2012:** Certificate course for internal auditors for SR EN ISO 15189:2007 "Quality management system audit in medical laboratories" organized by Romanian Movement for Quality (MRC), Craiova, Romania.

Dates **August 2005 – September 2005:** International Academic Exchange (scholarship) between Romanian Academy and Swedish Royal Academy at Chalmers University of Technology, Goteborg, Sweden ("Studies of Metabolic Products of Common Baker's Yeast") – under the supervision of Dr. Eva ALBERS.

Dates **November 23, 2003 – October 21, 2011**

Title of qualification awarded Doctor (PhD) in Biological Sciences (title granted: March 27<sup>th</sup>, 2012).  
 Principal subjects/occupational skills covered Biological Sciences / Thesis title: "Researches concerning obtaining of new immunoconjugates with quinonic active substances". Abstract (RO): [UniBuc.ro](http://UniBuc.ro).  
 Name and type of organisation providing education and training Faculty of Biology, University of Bucharest, Romania  
 Level in national or international classification ISCED LEVEL 8 – Doctoral or equivalent / 84 Doctoral or equivalent academic / 844

Dates **October 1, 1996 – August 1, 2000**

Title of qualification awarded Bachelor of Biology  
 Principal subjects/occupational skills covered Biological Sciences  
 Name and type of organisation providing education and training Faculty of Biology and Geology, "Babes-Bolyai" University, Cluj-Napoca, Romania  
 Level in national or international classification ISCED LEVEL 6 – Bachelor or equivalent / 64 Academic / 645

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment  
*European level (\*)*

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	A2	Basic user

(\*) [Common European Framework of Reference for Languages](http://www.cerl.eu)

Social skills and competences Good ability to adapt to multicultural environments, gained through my work experience.  
 Good communication skills.  
 I enjoy very much working with people and for people.

Organisational skills and competences Competent organizer and coordinator as project manager and scientific responsible.  
 Empathic with colleagues.  
 Innovative in development of new projects.

Technical skills and competences	<p><i>In silico</i> and wet-lab skilled in the area of life sciences as following:</p> <ul style="list-style-type: none"> <li>– able to work with: laminar flow cabinet, autoclave, incubating orbital platform shaker, plant growth chamber, culture incubator, water purification system for e.g. enhanced synthesis of naphthoquinones (DNA topoisomerase II <math>\alpha</math> inhibitors) in cell culture using growth regulators; as well as another standard laboratory equipment;</li> <li>– able to purify monoclonal antibodies (using standard purifications kits, such as Pierce Antibody Clean-up Kit) and to perform crosslinking reactions (using short- and long-chain disulfide crosslinkers, such as SPDP and LC-SPDP, for reversible amine-to-sulphydryl conjugation) between the purified antibodies or Fab fragments and thiolated quinones with the help of general laboratory instruments (e.g. end-over-end mixer or roller mixer, centrifuge, single channel micro-pipettes, spin-columns) and SDS-PAGE;</li> <li>– proteomics using bench-top MALDI-TOF mass spectrometer (Brucker Microflex LT) and general laboratory equipment (e.g. centrifuge, vortex) for: a) fast &amp; accurate identification of microorganisms (bacteria, fungi and yeasts); b) identification of proteins using peptide mass fingerprinting (PMF).</li> </ul>
Computer skills and competences	<p><b>Operating systems:</b></p> <ul style="list-style-type: none"> <li>– Microsoft Windows XP, Microsoft Windows 7, Microsoft Windows 8, Microsoft Windows 10</li> </ul> <p><b>Software used mainly for computer-aided drug design (CADD):</b></p> <ul style="list-style-type: none"> <li>– Chemical drawing packages (SmiLib v2.0 , ACD/ChemSketch v12.01 and ChemAxon cheminformatics suite)</li> <li>– PK/PD suites – ADME-Tox predictors (ACD/ADME Suite v5.0.7, ACD/Tox Suite v2.95.1, FAF-Drugs2)</li> <li>– Molecular docking software (Molegro Virtual Docker v5.0 , PyRx – Python Prescription 0.9 with AutoDock Vina)</li> <li>– Bioinformatics tools (various sequence analysis and sequence alignment web-based tools from NCBI &amp; EMBL-EBI)</li> <li>– Molecular design &amp; modeling software (Agile-Molecule Ascalaph, Agile-Molecule Abalone).</li> </ul> <p><b>Productivity suites:</b></p> <ul style="list-style-type: none"> <li>– Microsoft Office 2003, Microsoft Office 2007, Microsoft Office 2010</li> <li>– OpenOffice 3.x, OpenOffice 4.x</li> </ul>
Artistic skills and competences	Painting and drawing (surrealism and abstract)
Other skills and competences	National Contact Point (NCP) for Research Infrastructures (RIs) during FP7 (2007-2013)
Driving licence	B category
<b>Additional information</b>	<p><b>Affiliations:</b></p> <p>Member of Romanian Bio-Medical Engineering Federation:  <a href="http://www.icpe-ca.ro/lib/files/FRIB.htm">http://www.icpe-ca.ro/lib/files/FRIB.htm</a></p> <p>Member of Romanian Society of Biochemistry and Molecular Biology:  <a href="http://srbbm.biochim.ro">http://srbbm.biochim.ro</a></p> <p>Member of Romanian Society of Pure And Applied Biophysics:  <a href="http://www.biophysicsnet.ro">http://www.biophysicsnet.ro</a></p> <p><b>References about me:</b>  At request</p>

**Present Assignments – Participation in EU-projects/national projects:**

1. Food and Agriculture COST Action FA1403: Interindividual variation in response to consumption of plant food bioactives and determinants involved (POSITIVE: <http://www6.inra.fr/cost-positive>). Role: active partner on WP2 and WP3 (2016-2018)
2. National project no. PN 18 12 03 02: Research on the development of advanced analytical methods for the investigation of organic food of plant or animal origin. Role: key person (since 2018).

**Previous Assignments – Participation in EU-projects/national projects:**

1. National project no. PN 16 36 04 02: Advanced research on food origin authentication in order to implement innovative fingerprinting methodologies – Emphasis on fruit-based products. Role: key person (2016–2017).
2. National project no. PN 16 36 04 01: Assessing the impact of different ecosystems on stable isotopes and multi element composition of plants – Researches on geo-seasonal variability. Role: key person (2016–2107).
3. National project no. PN-II-PT-PCCA-2013-4-2075 (Financing contract 210/2015): Synthesis, screening and controlled release of some novel thiazole, bithiazole and thiazolidin-4-one compounds with antioxidant, antiproliferative and antimicrobial activity (SYNTHIAZO: [www.icsi.ro/synthiazo.html](http://www.icsi.ro/synthiazo.html)). Role: project manager (2014-2017).
4. National project no. PN 09 19 02 10: Theoretical and experimental investigations on the development of composite membranes used in the purification of conventional fuels / gaseous biofuels. Role: key person (2015).
5. National project no. PN 09 19 02 07: Researches concerning the development of advanced analytical methods to investigate the compositional profile of products with complex matrix. Role: key person (2013 – 2014).
6. National project no. PN 09 19 02 06: Support researches regarding the application of multi-element and multi-isotopic investigations in the establishment of origin markers for food traceability. Role: key person (2013 – 2014).
7. National project no. PN 09 19 02 02: Researches on natural products characterization and authentication based on the assessment of their protein profiling. Role: key person (2013).
8. FP7-INFRASTRUCTURES-2011-2 / INFRA-2011-3.5 / Grant Agreement 283663: European Network of National Contact Points for Research Infrastructures Moving Forward (EuroRIs-Net+: <http://www.euroris-net.eu/>). Role: as NCP – active partner on WP1, WP3 and WP5 (2011 – 2013).
9. FP7-INFRASTRUCTURES-2007-1 / INFRA-2007-3.5 / Grant Agreement 212879: European Research Infrastructures Network of National Contact Points (EuroRIs-Net: <http://www.euroris-net.eu/>). Role: as NCP – active partner on WP1, support partner on WP4/Task 4.5 and co-task leader on WP4/Task 4.7 (2007 – 2011).
10. National project no. PN 09 19 02 01: Researches concerning applicability of isotopic analysis and multi-element method to define authenticity and geographic classification of Romanian wines. Role: researcher (2009 – 2012).
11. National project no. 1885/2007: Obtaining and characterization of new targeted-nanodrugs with naphthoquinonic active substance (NANOQMED in RO: <http://www.icsi.ro/pncdi2/1885/1885.html>). Role: project manager (2007 – 2010).
12. National project no. 1136/2007: Transfer and technology development to obtain deuterium depleted water and its derivatives. Role: scientific referent (2007 – 2008).
13. National project no. 03-PP-457/2003: Methods of prevention and treatment for cancer at humans and big animals. Role: researcher (2003 – 2005).
14. National project no. 96P/2001: New optical and photothermal methods to characterise substances and bio-systems. Role: researcher (2001 – 2004).

Granted Patent RO 127619 – **Naphthalendione derivate used in tumoral growth control** (authors: Violeta Carolina Niculescu, Radu Tamaian, Ioan Mărcuș, Iulia Luciana Popescu, Bogdan Sevastre), published in BOPI (The Official Industrial Property Bulletin of Romania), Section Patents 3, 30-03-2018, p. 65 (RO).

Patent application A/00766 from September 28<sup>th</sup>, 2017 – Chitosan nanoparticles-based bio-support for transport of active principles and process for obtaining thereof (authors: Cornelia Nichita, Ioan Daniel Stamatini, **Radu Tamaian**)

Patent application RO127496-A2 (A/01250 from November 30<sup>th</sup>, 2010) – **Immunoconjugates with antiproliferative naphthalendione cytotoxic payload** (authors: **Radu Tamaian**, Ioan Mărcuș, Violeta Niculescu, Bogdan Sevastre, Iulia Prodan) published in BOPI (The Official Industrial Property Bulletin of Romania), Section Patents No. 6, 29-06-2012, p. 29 (RO), Derwent Primary Accession Number (EN): 2012-H46154 [47]:

- Awarded with Golden Medal at the **Belgian and International Trade Fair for Technological Innovation “Eureka!” – INNOVA 2012**, 15-17 November 2012, Brussels, Belgium;
- Awarded with Diploma of Excellence and Silver Medal at **The International Exhibition of Research, Innovation and Inventions – PRO INVENT 2011**, IX<sup>th</sup> Edition, 22-25 March 2011, Cluj-Napoca, Romania;
- Awarded with Silver Medal at the **International Workshop for Inventions, Scientific Research and New Technologies – Inventika 2011**, XV<sup>th</sup> Edition, 5-8 October 2011, Bucharest, Romania.

## I. Peer-reviewed publications indexed by Clarivate Analytics

I. Krga, **R. Tamaian**, S. Mercier, C. Boby, L. E. Monfoulet, M. Glibetic, C. Morand, D. Milenkovic, 2018, Anthocyanins and their gut metabolites attenuate monocyte adhesion and transendothelial migration through nutrigenomic mechanisms regulating endothelial cell permeability. *Free Radical Biology and Medicine*, 124:364–379

Full paper: [doi: 10.1016/j.freeradbiomed.2018.06.027](https://doi.org/10.1016/j.freeradbiomed.2018.06.027)

**Personal contribution:** target selection, homology modelling, docking, and contributions in writing the paper (corresponding author).

C. Nastasă, D. C. Vodnar, I. Ionuț, A. Stana, D. Benedec, **R. Tamaian**, O. Oniga, B. Tipericiu, 2018, Antibacterial Evaluation and Virtual Screening of New Thiazolyl-Triazole Schiff Bases as Potential DNA-Gyrase Inhibitors. *International Journal of Molecular Sciences*, 19(1), 222

Full paper: [doi:10.3390/ijms19010222](https://doi.org/10.3390/ijms19010222)

**Personal contribution:** docking, ADME-Tox predictions and contributions in writing the paper (corresponding author).

L. E. Monfoulet, S. Mercier, D. Bayle, **R. Tamaian**, N. Barber-Chamoux, C. Morand, D. Milenkovic, 2017, Curcumin modulates endothelial permeability and monocyte transendothelial migration by affecting endothelial cell dynamics. *Free Radical Biology and Medicine*, 112:109-120

Full paper: [doi: 10.1016/j.freeradbiomed.2017.07.019](https://doi.org/10.1016/j.freeradbiomed.2017.07.019)

**Personal contribution:** target selection, homology modelling, docking, and contributions in writing the paper.

A. Stana, D. C. Vodnar, **R. Tamaian**, A. Pîrnău, L. Vlase, I. Ionuț, O. Oniga, B. Tipericiu, 2017, Design, Synthesis and Antifungal Activity Evaluation of New Thiazolin-4-ones as Potential Lanosterol 14 $\alpha$ -Demethylase Inhibitors. *International Journal of Molecular Sciences*, 18(1):177

Full paper: [doi:10.3390/ijms18010177](https://doi.org/10.3390/ijms18010177)

**Personal contribution:** docking, ADME-Tox predictions and contributions in writing the paper.

I. Ionuț, D. C. Vodnar, I. Oniga, O. Oniga, B. Tipericiu, **R. Tamaian**, 2016, Biological evaluation and molecular docking of some chromenyl-derivatives as potential antimicrobial agents. *Pakistan Journal of Pharmaceutical Sciences*, 29(1-Suppl):261–272

Full paper: [http://www.pjps.pk/?page\\_id=276&id=2181](http://www.pjps.pk/?page_id=276&id=2181)

**Personal contribution:** docking and contributions in writing the paper.

**R. Tamaian**, A. Moț, R. Silaghi-Dumitrescu, I. Ionuț, A. Stana, O. Oniga, C. Năstasă, D. Benedec, B. Tipericiu, 2015, Study of the Relationships between the Structure, Lipophilicity and Biological Activity of Some Thiazolyl-carbonyl-thiosemicarbazides and Thiazolyl-azoles. *Molecules*, 20:22188–22201

Full paper: [doi:10.3390/molecules201219841](https://doi.org/10.3390/molecules201219841)

**Personal contribution:** virtual prediction of the lipophilicity parameters and contributions in writing the paper.

B. Tipericiu, A. Pârnu, **R. Tamaian**, C. Năstasă, I. Ionuț, O. Oniga, 2013, New Anti-inflammatory Thiazolyl-carbonyl-thiosemicarbazides and Thiazolyl-azoles with Antioxidant Properties as Potential iNOS Inhibitors. *Archives of Pharmacal Research*, 36(6):702-714

Full paper: [doi:10.1007/s12272-013-0083-9](https://doi.org/10.1007/s12272-013-0083-9)

**Personal contribution:** the entire *in silico* work (sketching of chemical structures and 3D optimization, ligand-protein docking with Molegro Virtual Docker 5.0) and equal contribution in writing the paper with B. Tipericiu and A. Pârnu as stated in the manuscript.

I. Ștefănescu, N. Manolescu, Gh. Tițescu, E. Balint, **R. Tamaian**, V. Feurdean, 2010, Assessment of Deuterium Depletion in Plymouth Rock Chickens' Bodies. *Environmental Engineering and Management Journal*, 9(11):1477-1480

Full paper: <http://web.ebscohost.com/ste1>

**Personal contribution:** writing the paper (corresponding author).

I. Ștefănescu, N. Manolescu, Gh. Tițescu, V. Comișel, **R. Tamaian**, V. Feurdean, 2010, Studies Concerning DDW Use for Deuterium Depletion in the Organism of Laboratory Animals. *Environmental Engineering and Management Journal*, 9(11):1473-1476

Full paper: <http://web.ebscohost.com/ste2>

**Personal contribution:** writing the paper (corresponding author).

**R. Tamaian**, I. Ștefănescu, Gh. Tițescu, 2007, Mass-Spectrometry – A Method for Determination of Deuterium's Distributions in Mammals Body under Effect of Deuterium's Depleting Medium. *Journal of Optoelectronics and Advanced Materials*, 9(3):610-612

Full paper: <http://joam.inoe.ro/download.php?idu=582>

**Personal contribution:** writing the paper (corresponding author).

## II. Peer-reviewed publications indexed by various academic databases

I. D. Bărbulescu, R. I. Teodorescu, V. S. Hedeia, L. Grigorică, G. Roceanu, S. I. Marinescu, M. Frîncu, M. G. Albu Kaya, A. Cîrîc, P. M. Matei, **R. Tamaian**, C. Dumitrache, V. Tudor, M. Begea, 2017, Obtaining of an Active Product Based on Yeast Biomass by Fermentation of a Waste from Winemaking Process from Oprisor Area. Progress of Cryogenics and Isotopes Separation, 20(2):43-50.

Abstract: <http://icit-journal.icsi.ro/Itemid=82>

**Personal contribution:** proteomics (MALDI-TOF MS) and contributions in writing the paper.

C. Tomulescu, M. Moscovici, B. Albu, R. Stoica, C. Sevcenco, D. Jitea, **R. Tamaian**, A. Vamanu, 2017, Production and Optimization of Extracellular Amylase from A Newly Isolated Strain of *Bacillus mycoides*. Scientific Bulletin. Series F. Biotechnologies, XXI:239-248

Full paper: <http://biotechnologyjournal.usamv.ro/pdf/2017/Art41.pdf>

**Personal contribution:** proteomics (MALDI-TOF MS) and contributions in writing the paper.

I. D. Bărbulescu, C. Mihai, M. Begea, M. Frîncu, L. Grigorică, G. Roceanu, S. I. Marinescu, R. Teodorescu, **R. Tamaian**, 2016, Identification of New Isolates (Micro-Organisms) from Vineyard Epiphytic Microflora Using MALDI-TOF Mass Spectrometry. Progress of Cryogenics and Isotopes Separation, 19(1):83-90.

Abstract: <http://icit-journal.icsi.ro/Itemid=78>

**Personal contribution:** proteomics (MALDI-TOF MS), corresponding author and contributions in writing the paper.

I. D. Bărbulescu, M. Begea, M. Frîncu, **R. Tamaian**, 2015, Identification of Yeasts Tested for Fermentation on Different Carbon Sources. Progress of Cryogenics and Isotopes Separation, 18(2):51-58.

Abstract: <http://icit-journal.icsi.ro/Itemid=77>

**Personal contribution:** proteomics (MALDI-TOF MS), bioinformatics (dendrogram), corresponding author and contributions in writing the paper.

C. Tomulescu, M. Moscovici, A. Gheorghită, M. Petrescu, M. Vladu, **R. Tamaian**, A. Vamanu, 2015, Microbial Screening for Lipase and Amylase Production Using Newly Isolated Strains from Various Biotopes. Scientific Bulletin. Series F. Biotechnologies, XIX:271-280.

Full paper: <http://biotechnologyjournal.usamv.ro/pdf/2015/Art47.pdf>

**Personal contribution:** proteomics (MALDI-TOF MS), bioinformatics (dendrogram) and contributions in writing the paper.

R. E. Ionete, O. R. Dincă, **R. Tamaian**, E. I. Geană, 2013, Exploring *Apis mellifera* Venom Compounds Using Highly Efficient Methods. Progress of Cryogenics and Isotopes Separation, 16(2):89-100

Abstract: <http://icit-journal.icsi.ro/Itemid=73>

**Personal contribution:** proteomics (MALDI-TOF MS), PCA and writing the paper (corresponding author).

B. Sevastre, I. Mărcuş, **R. Tamaian**, 2011, *In silico* identification of new antiproliferative compounds, inhibitors of matrix metalloproteinases. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Veterinary Medicine, 68(1):334-343

Full paper, DOI: <http://dx.doi.org/10.15835/buasvmcn-vm:1:68:6823>

**Personal contribution:** *In silico* work (chemical structures sketching and 3D optimization, building of the virtual library, "drug-likeness" and undesirable moieties screening, homology modeling, ligand-protein docking) and writing the paper (corresponding author).

**R. Tamaian**, V. Niculescu, M. Anghel, 2010, *In silico* predictions for improving permeability properties of principal anticancer anthracyclines through structural modification. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Veterinary Medicine, 67(1):329-336

Full paper, DOI: <http://dx.doi.org/10.15835/buasvmcn-vm:67:1:5974>

**Personal contribution:** *In silico* work (chemical structures sketching and 2D optimisation, building of the virtual library, "drug-likeness" and oral bioavailability testing, prediction of basic toxicity endpoints) and writing the paper (corresponding author).

**R. Tamaian**, I. Mărcuş, V. Niculescu, B. Sevastre, M. Anghel, I. Prodan, 2010, Computational study of interspecies TOP2A similarities for further development of new double targeted therapeutic immunoconjugates. Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Veterinary Medicine, 67(1):373.

Abstract, DOI: <http://dx.doi.org/10.15835/buasvmcn-vm:67:1:6006>

**Personal contribution:** *In silico* work (sequence analysis) and writing the paper (corresponding author).

V. Niculescu, **R. Tamaian**, N. Păun, A. Pîrnău, L. Szabó, 2009, Synthesis and spectral characterisation of a new metal complex with a bidentate ligand. Journal of Physics: Conference Series, 182(1):012030

Full paper: [doi:10.1088/1742-6596/182/1/012030](https://doi.org/10.1088/1742-6596/182/1/012030)

**Personal contribution:** Drug design and contribution in writing the paper.

**R. Tamaian**, B. Sevastre, V. Niculescu, I. Prodan, N. Păun, I. Mărcuş, 2009, Synthesis of New Kind of Naphthoquinonic Anti-Tumoural Compounds. Toxicity Tests. Romanian Journal of Biochemistry, 46 (Supplementa):124-125.

**Personal contribution:** Drug design and contribution in toxicity testing and writing the paper.



**R. Tamaian**, N. Păun, V. Niculescu, A. Iordache, R. Vremeră, Ș. Broscățean, 2008, Antibiotic Effects of The Naphtoquinonic Derivative On Gram-Positive And Gram-Negative Germs. *Chemické Listy*, 102(15s):s479-481

Full paper: [http://www.chemicke-listy.cz/docs/full/2008\\_15\\_s290-s536.pdf](http://www.chemicke-listy.cz/docs/full/2008_15_s290-s536.pdf)

**Personal contribution:** Experimental procedures (bacteria cultures, antimicrobial susceptibility testing by microdilution technique) and writing the paper (corresponding author).

### III. Participation at relevant conferences

8<sup>th</sup> International Conference on Polyphenols and Health – ICPH 2017, 03 – 06 October 2017, Québec, Canada:

<http://icph2017-quebec.org/>

- I. Krga, S. Mercier, **R. Tamaian**, C. Boby, L. E. Monfoulet, C. Morand, D. Milenkovic – Anthocyanins and their gut metabolites attenuate monocyte adhesion and transendothelial migration through nutrigenomic mechanisms regulating endothelial cell permeability, Book of Abstracts, p. 189 (poster)

16<sup>th</sup> International Symposium “Prospects for the 3<sup>rd</sup> Millennium Agriculture”, 28 – 30 September 2017, Cluj-Napoca, Romania:

<http://symposium.usamvcluj.ro/>

- **R. Tamaian**, L. E. Monfoulet, C. Morand, D. Milenkovic – Nutrigenomic Study on Curcumin. A Computational Approach, Book of Abstracts 4/2017, p. 152 (oral communication)
- **R. Tamaian**, O. R. Botoran, R. E. Ionete – Typing and Chemometrics of Monofloral Honey Varieties by MALDI-TOF Mass Spectrometry, Book of Abstracts 4/2017, p. 408 (poster FST50)

19<sup>th</sup> International Union for Pure and Applied Biophysics Congress & 11<sup>th</sup> European Biophysics Congress – IUPAB & EBSA 2017, 16 – 20 July 2017, Edinburgh, Scotland, UK:

<http://www.iupab2017.org/home>

- **R. Tamaian**, C. Nastasă, O. Oniga, B. G. Tipericiu. *In silico* evaluation of new 5-arylidene(chromenyl)-thiazolidinediones as safer K-Ras inhibitors. *European Biophysics Journal with Biophysics Letters*, 2017, 46(Suppl 1):S319 (poster P-784)
- **R. Tamaian**, N. Păun, V. C. Niculescu. New anti DNA topoisomerase naphthalenedione leads. *European Biophysics Journal with Biophysics Letters*, 2017, 46(Suppl 1):S320 (poster P-785)

The XIV<sup>th</sup> Workshop of the European Society for Isotope Research (ESIR) – ESIR 2017, 25 – 29 June 2017, Băile Govora, Romania:

<http://www.icsi.ro/esir2017/>

- D. Costinel, R. E. Ionete, R. Popescu, O. R. Botoran, **R. Tamaian**, G. Butnaru, Assessment of Deuterium in Plants Grown with Waters of Different Concentrations in Deuterium. Remarks, Book of Abstracts, p.197-198 (poster IGA 11-P)

10<sup>th</sup> Joint Meeting of Medicinal Chemistry, 25 – 28 June 2017, Dubrovnik (Srebreno), Croatia:

<http://www.jmmc2017.hr/index.php>

- A. Stana, **R. Tamaian**, D. C. Vodnar, O. Oniga, B. Tipericiu, Antibacterial Thiazolin-4-Ones as Potential DNA Gyrase and Topoisomerase IV Inhibitors, Book of Abstracts, p.219 (poster P-143)

Applied Nanotechnology and Nanoscience International Conference – ANNIC 2016, 09 – 11 November 2016, Barcelona, Spain:

<http://premc.org/annic2016/>

- **R. Tamaian**, N. Păun, V. C. Niculescu – New Aptamer-Based Biosensor. Design Study, Book of Abstracts 2016, p.132 (poster B.33)
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- A. Stana, **R. Tamaian**, D. Vodnar, B. Tipericiu, O. Oniga – New antifungal thiazolin-4-ones targeting lanosterol 14 $\alpha$ -demethylase, Abstract Book 2016, p.73 (poster ID: 280)



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- I. Ionuț, D. C. Vodnar, I. Oniga, O. Oniga, B. Tipericiu, **R. Tamaian** – Biological evaluation and molecular docking of some novel chromenyl-derivatives as potential antimicrobial agents, Clujul Medical – Journal of Medicine and Pharmacy: Abstracts of the Annual Meeting of the Iuliu Hațieganu University of Medicine and Pharmacy Cluj-Napoca (ISSN 1222-2119), Supplement No. 3, Vol. 88, (poster S125)

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- I. D. Bărbulescu, D. Mihai, M. Begea, R. Mudura, R. Teodorescu, C. Mihai, L. Grigorică, G. Roceanu G, S. I. Marinescu, **R. Tamaian** – A Case Study – Yeasts Identification in Order to Implement Terroir and Vineyard Management at Opișor Winery Using the GIS Technology and a Proteomic Approach, Book of Abstracts (ISBN 978-88-99407-00-1), p. 162 (poster, Session 2A)
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- **R. Tamaian**, C. Nichita, I. D. Stamatina, D. Enciu - *In silico* modelling of the biodistribution of therapeutic immunoconjugates with thiazolic payload (on-line poster #11: <http://www.myeventflo.com/brochures/Poster003964.pdf>)

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<http://selectbiosciences.com/conferences/index.aspx?conf=DDD2015>:

- **R. Tamaian**, A. Stana, I. Ionuț, D.C. Vodnar, O. Oniga, B. Tipericiu – Evaluation of new thiazole derivatives as antifungal agents targeting lanosterol 14-alpha demethylase (on-line poster #1: <https://selectbio.online-event.co/stand/ddd15-poster-1>)

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- C. Nichita, **R. Tamaian**, G. Neagu, I. D. Stamatina – Nanocarrier Delivery Systems Based On Chitosan And Antioxidants. Abstract Book of The 8<sup>th</sup> International Conference On Advanced Materials - ROCAM 2015 (ISSN 1842-3574), p. 98 (poster)

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- C. Tomulescu, M. Moscovici, A. Ghiorghită, M. Petrescu, M. Vladu, **R. Tamaian**, A. Vamanu – Microbial Screening for Lipase and Amylase Production Using Newly Isolated Strains from Various Biotopes (poster, Section 6. Biotechnology, paper ID 24)

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- C. Nichita, A. Taqi, A. Balan, **R. Tamaian**, S. Voinea, A.M. Soare, M. Zăuleț, G. Neagu, I. Stamatin – Nanostructured biofilms designed with polysaccharides and bioactive compounds. Mechanical and antioxidant properties (on-line poster [W-P 5](#))

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- I. D. Bărbulescu, S. I. Marinescu, M. Begea, R. N. Negrilă, S. Prundianu, **R. Tamaian** – Biotechnological Processes in Order to Obtain Biomasses Enriched in Minerals Using Different Yeast Strains, Proceedings of the 27<sup>th</sup> International VH Yeast Conference, p. 85-96 (invited lecture)

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- O. Dincă, R. Ionete, R. Popescu, **R. Tamaian**, D. Costinel, G. Radu – Fingerprinting Analytical Strategy Used for Authentication of Honey, Book of Abstracts, p. 190 (poster B32)

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- R. E. Ionete, O. R. Dincă, **R. Tamaian**, E. I. Geană – Exploring *Apis mellifera* Venom Compounds Using Highly Efficient Methods. Abstracts, p.118 (Section 8. Agriculture and food safety, poster no. 3)

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- V. Niculescu, **R. Tamaian**, M. Anghel – Computational Approach to Improve Stability of Anthocyanins via Structural Modification. Abstracts, p. 86 (oral presentation)
- **R. Tamaian**, V. Niculescu, M. Anghel – Antibody-Protein Comparative Automated Docking to Identify the Affinity of IMC-C225 for All its Known Targets. Abstracts, p. 91 (oral presentation)

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- I. Ștefănescu, T. Nicola, C. Mladin, **R. Tamaian**, V. Niculescu, V. Feurdean, G. Tițescu, N. Păun – Studies Concerning DDW Use for Deuterium's Depletion in Animal Organism and for Synthesis of New Naphthoquinonic Antitumoral Compounds, Abstracts of 1<sup>st</sup> International Symposium on Deuterium Depletion, p. 14-15 (oral presentation)

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- **R. Tamaian** – EURO-RIs-Net Project and The Research Infrastructures. Proceedings, Ed. Conphys, ISSN 1582-2575, p. 24 (plenary lecture)
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- V. Niculescu, **R. Tamaian**, N. Păun, A. Pîrnău, L. Szabó – Synthesis and spectral characterisation of a new metal complex with a bidentate ligand, Book of Abstracts, p. 38 (poster T2-7)

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- A. Pîrnău, L. Szabó, N. Leopold, O. Cozar, M. Bogdan, **R. Tamaian**, V. Chiş – DFT, Vibrational, NMR and ESR study of CU(II)-2-mercapto-3-nicotinamide-1,4-naphthoquinone molecular complex, NANOSPEC 2008 Abstracts, p. 78 (poster)

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- V. Niculescu, N. Păun, **R. Tamaian** – New high performance liquid chromatographic method for determination of 5-hydroxy-1,4-naphthoquinone (juglone) /Juglone's natural biosynthesis highlight in fresh leaves from black walnut tree, Book of abstracts of 4<sup>th</sup> Central European Conference Chemistry Towards Biology 2008, ISBN 978-963-9319-85-1, p. 113 (poster)
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