

CURRICULUM VITAE



Family name (Surname): Đurović

First name: Mirjana

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E-mail: mirjana.djurovic@gmail.com

Date of birth: May 19th, 1987

Country and place of birth: Bosnia and Herzegovina
Višegrad

Marital status: Single

Citizenship: Serbia/Bosnia and Herzegovina

Nationality: Serb

EDUCATION

Primary School:

Višegrad, Bosnia and Herzegovina
1994 - 2002

Secondary School:

Medical High School
Pharmaceutical Technician
Užice, Serbia
2002 - 2006

Diploma in Chemistry (master):

Faculty of Science
University of Kragujevac
Kragujevac, Serbia
2006 - 2010

Doctorate

PhD in Chemistry
Inorganic Chemistry
Supervisor: Prof. Dr. Živadin D. Bugarčić
2010 – 2015

Research experience: synthesis and characterization of the organometallic complexes of gold(I/III) and platinum(II); kinetics of their interactions with the biologically relevant molecules; redox reactions and catalysis

Postdoctoral specialization

Jagiellonian University
Faculty of Chemistry
Ingardena 3
30-060 Krakow, Poland
May 2016 –

Research topic: studies on the reversible binding and transport of oxygen by myoglobin in the presence of particulate matter that contains redox-active transition metals

Research Fellow: (c/o. Professor Rudi van Eldik)

University of Erlangen-Nürnberg
Institute for Inorganic Chemistry
Egerlandstrasse 1.
D-91058 Erlangen, Germany
2011(3 months), 2012 (2 months), 2013 (2 months)
DAAD bilateral project

Research experience: synthesis and characterization of the gold(III) complexes; investigation of their interactions with amino acids and simple nucleophiles, applying UV-Vis, stopped-flow, rapid-scan, NMR and CV techniques

(Professor A. Stephen K. Hashmi)

Organisch-Chemisches Institut
Ruprecht-Karls-Universität
Im Neuenheimer Feld 270
D-69120 Heidelberg, Germany
2012 (5 months)
DAAD scholarship

Research experience: synthesis and characterization of the gold(I/III) carbene complexes and their application in catalysis of the oxazole synthesis

***Multidisciplinary training
(Governance and management of
marine and fishing policies)***

Institute for Coastal Marine Sciences (IAMC) - National
Research Council (CNR)
Biotechnology and oceanography laboratory
Capo Granitola (Trapani), Sicily
„DIPLOMAzia“ CNR and Ministry of Foreign Affairs
scholarship program
Italy, 2014 (6 months)

Theoretical training: Political and economic geography,
Maritime policies and international maritime law,
Technology transfer, Marine and fisheries economy,
Corporate management and Euro-project
management, Interdisciplinary oceanography and
Public relation

Experimental training: Toxic effect of the antifouling
agent irgarol on anemonia sulcate (ASE, GC-MS); Sea-
bottom sediment analysis (DMA); Amino acid
composition in plankton species (HPLC); Processing of
fish organisms for the tissue procurement, separation of
the protein from the lipid component, analysis of the
protein component (precipitation in TCA and the soluble
protein analysis) (UV-Vis); Zymograms for the
evaluation of the shelf life and SDS-PAGE for the
protein evaluation pattern of the contractile proteins;
Microbiological tests

Oceanographic campaign

Bansic'14 oceanographic campaign
URANIA research vessel Italy, 2014
(July, 22nd - 31st)

Research experience: collection and analysis of the
data by estimating the biomass of anchovy and sardine
in the channel of Sicily and the chemical and physical
measurement of sediment

Course/Certificate
(Acad. Prof. Robert Zorec)

Cell Science and Engineering
Slovenian Research Programme in Cell Physiology
November, 9th - 13th, 2015

Career/Employment

Research associate
Faculty of Science, University of Kragujevac
Department of Chemistry, Inorganic chemistry
Researcher on the Project of Ministry of Science and
Technological Development of the Republic of Serbia
(Project No. 172011)
2011-

Membership in organizations:

- Serbian Chemical Society
- DAAD Alumni Club at the University of Belgrade
- Association of Italian and Serbian scientists and
researchers, Belgrade, Serbia

Professional skills

Gold and platinum coordination chemistry, kinetics,
organometallic synthesis, gold catalysis, UV-Vis,
Stopped-flow, HPLC, NMR, electrochemistry (CV),
protein purification, electrophoresis, zymography

Languages

(a) Mother tongue:

Serbian

(b) Other languages:

English (fluent), German (basic)

Scholarships and awards:

- Ministry of Education, Government of the Republic of Serbia (2008/2009)
- Foundation Dr Milan Jelic, Republic of Srpska (2008/2009)
- Ministry of Youth and Sport, Republic of Serbia (2009/2010)
- University of Kragujevac (2010), the best student of University of Kragujevac
- Nenad M. Kostić fund reward for the best graduate study in the field of chemical sciences, 2011
- Best student of chemistry for the academic 2006/2007, 2007/2008 and 2008/2009 year, Faculty of Science, University of Kragujevac, Serbia
- Best graduate student 2011, Faculty of Sciences, Department of Chemistry
- Best pupil generation 2002, Primary school in Višegrad, Bosnia and Herzegovina
- Student awards - Special Mention of Serbian Chemical Society for 2011
- The Hemofarm Foundation award for the students in science who achieved outstanding success in their education, 2013

List of scientific publications:

1. **Mirjana Đurović**, Jovana Bogojeski, Biljana Petrović, Dejan Petrović, Frank W. Heinemann and Živadin D. Bugarčić
Ligand substitution reactions of some sterically hindered Pt(II) complexes. The crystal structures of $[TL^{tBu}H_2](ClO_4)_2 \cdot 0.5H_2O$;
Polyhedron 41 (2012) 70-76;
DOI: 10.1016/j.poly.2012.04.024; ISSN 0277-5387; IF: 1.813
2. **Mirjana D. Đurović**, Živadin D. Bugarčić, Frank W. Heinemann and Rudi van Eldik
Substitution versus redox reactions of gold(III) complexes with L-cysteine, L-methionine and glutathione
Dalton Trans., 2014, 43 (10), 3911-3921;
DOI: 10.1039/C3DT53140F; ISSN 1477-9226; IF: 4.097
3. **Mirjana D. Đurović**, Ralph Puchta, Živadin D. Bugarčić and Rudi van Eldik
Studies on the reactions of $[AuCl_4]$ with different nucleophiles in aqueous solution
Dalton Trans., 2014, 43, 8620-8632
DOI: 10.1039/C4DT00247D; ISSN 1477-9226; IF: 4.097
4. **Mirjana D. Đurović**, Živadin D. Bugarčić, Ralph Puchta and Rudi van Eldik
Studies on the reactivity and redox stability of gold(I/III)-carbene complexes. Unexpected inertness of a gold(I)-bis-carbene complex
Dalton Trans., 2015., under revision
ID DT-ART-06-2015-002173
5. **Mirjana D. Đurović**, Matthias Rudolph, Frank Rominger, A. Stephen K. Hashmi and Živadin D. Bugarčić
Direct synthesis of new symmetric and asymmetric gold(I) bis-NHC and bis-NHOC complexes and initial application of their gold(III) analogues in catalysis
To be submitted

List of communications in scientific meetings:

1. Jovana Bogojeski, **Mirjana Đurović**, Aleksandar Mijatović, Biljana Petrović and Živadin D. Bugarčić
Kinetics and the mechanism of the substitution reactions of some Pt(II) and Pd(II) complexes
First EuCheMS Inorganic Chemistry Conference (EICC-1), 2011, University of Manchester, UK, April 11-14, Abstract 0312
2. **Mirjana D. Đurović**, Jovana V. Bogojeski, Biljana V. Petrović, Živadin D. Bugarčić;
Kinetics and the mechanism of the substitution reactions of monofunctional Pt(II) complexes, $[(TL^{tBu})PtCl]ClO_4$ and $[PtCl(tpdm)]$
49th Meeting of the Serbian Chemical Society, 2011, Kragujevac, Serbia, May 13-14, Abstract p. 55., NH 03

3. **Mirjana D. Đurović**, Živadin D. Bugarčić, Rudi van Eldik;
Is the reduction of gold(III) "culprit" for its biological activity?
8th International Conference of the Chemical Societies of the South-East European Countries,
Belgrade, Serbia, June 27-29, 2013, Abstract p. 13, O 03 BS-Sy

4. **Mirjana D. Đurović**, Živadin D. Bugarčić, Rudi van Eldik;
An investigation on the potential biological activity of gold(I/III) complexes based on their interaction with biologically relevant molecules
22nd Young Research Fellow Meeting, Chemistry and Biology: A permanent dialogue;
Paris – Biotech, Paris, France, February 4-6, 2015, Abstract PO-089

Other publications:

1. Ivan Gutman, **Mirjana Đurović**, Boris Furtula
Čudo Svetog Januarius (*The Miracle of Saint Januarius*)
Hemijski pregled, 49, 2, 2008
ISSN 0440-6826

2. **Mirjana D. Đurović**, Živadin D. Bugarčić
Zlatna kataliza (*Golden Catalysis*)
Hemijski pregled, 2015, 2(56), 41-49
ISSN 0440-6826

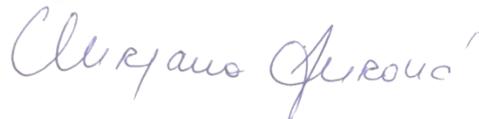
Personal skills:

Well organized, devoted to the work, responsible, reliable, persistent, highly motivated to learn new methods and topics, oriented towards teamwork and positive approach to the problems, inclined to a comprehensive and research way of thinking

Hobbies:

Reading (psychology), creative work (a handmade decorative), sewing, sport, travelling, adrenaline adventures

Kragujevac, 17.05.2016.



Mirjana D. Đurović, PhD

References you may contact:

First reference:

Name: Prof. Dr. Živadin D. Bugarčić
Position: Professor of Inorganic Chemistry
University: University of Kragujevac Faculty of Science
Institute: Department of Chemistry
Street: Radoja Domanovica 12
City: 34000 Kragjevac, Serbia
Phone: +381-34-300-262
E-mail: bugarcic@kg.ac.rs

Second reference:

Name: Prof. em. Dr. Dr. h. c. mult. Rudi van Eldik
Position: Emeritus Professor of Inorganic Chemistry
University: Friedrich-Alexander-Universität Erlangen-Nürnberg
Institute: Department for Chemistry and Pharmacy
Street: Egerlandstraße 1
City: 91058 Erlangen, Germany
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E-mail: rudi.vaneldik@fau.de