Curriculum Vitae

PERSONAL DATA

Name and surname	**Višnja Stepanić**
Address	Ruđer Bošković Institute, Bijenička cesta 54
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WWW	http://www.irb.hr/eng/People/Visnja-Stepanic
Citizenship	Croatian
Date and place of birth	28/02/1970, Zagreb

WORK EXPERIENCE

Date (from – until)	2009-today
Institution	Ruđer Bošković Institute, Division of Molecular Medicine, Laboratory for Epigenomics
Work field	Natural Sciences, Basic Medical Sciences

Date (from – until)	2006– 2008
Institution	GlaxoSmithKline Research Centre Zagreb Ltd.
Work field	Natural Sciences, Basic Medical Sciences

Date (from – until)	2002 – 2006
Institution	Research & Development, PLIVA Int., Zagreb
Work field	Natural Sciences, Basic Medical Sciences

Date (from – until)	1998 – 2002
Institution	Ruđer Bošković Institute
Work field	Natural Sciences

Date (from – until)	1994 – 1998
Institution	Ruđer Bošković Institute
Work field	Natural Sciences

EDUCATION

Date	1998-2001
Place	Zagreb
Institution	Faculty of Sciences University of Zagreb
Title of qualification awarded	Ph.D. degree

Date	1994-1997
Place	Zagreb
Institution	Faculty of Sciences University of Zagreb
Title of qualification awarded	M. Sc. Degree

Date	1988-1993
Place	Zagreb
Institution	Faculty of Sciences University of Zagreb
Title of qualification awarded	B. Sc. Degree

LANGUAGES

MOTHER TONGUE	Croatian
ENGLISH LANGUAGE	yes
speaking	excellent
writing	excellent
reading	excellent
GERMAN LANGUAGE	yes
writing	good
reading	good

RESEARCH AND OTHER PROJECTS

Programmes of Ministry of Science, Education and Sport of RH:

1) 2009–today ″Epigenetic and immunomodulatory changes in malignant head and neck tumors ″ (098–0982464–2511, PI Koraljka Gall Trošelj)
2) 2012–today ″Developing methods for modelling properties of bioactive molecules and proteins″ (098-1770495-2919, PI dr. sc. Bono Lučić)
3) 1998–2001 ″Isotopical labelling and molecular spectroscopies″ (00980802, PI Goran Baranović)
4) 1998 ″Theoretical study of protonated diimide cations″, Young investigator project, manager
5) 1996–1998 ″Study of static and dynamical properties of molecules ″ (00980605, PI Aleksandar Sabljić)
6) 1991–1995 ″Development and application of models in chemistry ″ (PI academician Nenad Trinajstić)

Programmes in Research institute of Pliva d.o.o. and GlaxoSmithKline Research Centre Zagreb Ltd:

1) 2007- 2008 ″Macrolides with anti-inflammatory activity″, GSK Research Centre Zagreb Ltd.
2) 2006 – 2008 ″Pharmacokinetic behaviour of macrolides″, GSK Research Centre Zagreb Ltd.
3) 2006 – 2008 ″Platform for generating macrolide hit molecules ″, GSK Research Centre Zagreb Ltd.
3) 2006 – 2008 ″Novel macrolide antibiotics″, Research institute of Pliva d.o.o./ GSK Research Centre Zagreb Ltd.
4) 2002 – 2003 ″Novel antibiotics targets ″, R&D PLIVA Int.
5) 2006 – 2008 ″Novel macrolide antibiotics″, Research institute of Pliva d.o.o./ GSK Research Centre Zagreb Ltd.
6) 2004 – 2005 ″New program generating platform ″, Research institute of Pliva d.o.o.

TEACHING

Undergraduate study:

- 2012 – today participation in course "IME6852Z Instrumental methods", of Specialist study of environmental health engineering on University of applied health studies, Zagreb

Graduate study:

- 2013 – today participation in course "P4 in medicine: Predictive, preventive, personalized and participatory medicine ", of graduate study Medical studies in Croatian on School of medicine, University of Zagreb
- 2011– today participation in course "Biologically active compounds in food", of graduate study Medical studies in Croatian on School of medicine, University of Zagreb
- 1998–2001 participation in courses "Molecular spectroscopy" and "Chemical kinetics" of graduate study on Faculty of natural sciences, University of Zagreb

Workshops:

- 2014 – lecturer at the workshop Molecular modelling organized together with dr. Sanja Tomić and Croatian association for cancer research

AWARDS AND RECOGNITIONS

• 2008 GLAXOSMITHKLINE Exceptional Science Award

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

- Croatian chemical society
- Croatian society for biochemistry and molecular biology
- Croatian biophysical society
- Croatian association for cancer research and EACR
- MC member of COST Action BM1203 EU-ROS
- MC member of COST Action CM1106 Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells

PAPERS

CC scientific papers – 10 representative:

1) 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. Bioorganic & Medicinal Chemistry Letters. 24(13) (2014) 2913-2917; IF = 2.331, Times cited WoS 0, Q2
2) A. Amić, Z. Marković, J. Dimitrić Marković, V. Stepanić, B. Lučić, D. Amić. Towards an improved prediction of the free radical scavenging potency of flavonoids: The significance of double PCET mechanisms. Food Chemistry. 152 (2014) 578-585. IF = 3.259, Times cited WoS 2, Q1
3) D. Amić, V. Stepanić, B. Lučić, Z. Marković, J. Dimitrić Marković, PM6 study of free radical scavenging mechanisms of flavonoids: why does O–H bond dissociation enthalpy effectively represent free radical scavenging activity? Journal of molecular modeling. 19 (2013) 2593-2603; IF = 1.867, Times cited WoS 5; Q2.
4) V. Stepanić, K. Gall Trošelj, B. Lučić, Bono; Z. Zoran; D. Dragan. Bond dissociation free energy as a general parameter for flavonoid radical scavenging

activity. Food chemistry. 141 (2013) 1562-157; IF = 3.259 (2012); Times cited WoS 7; Q1.

5) V. Munić Kos, S. Koštrun, A. Fajdetić, M. Bosnar, Ž. Kelnerić, V. Stepanić, V. Eraković Haber, Structure-property relationship for cellular accumulation of macrolones in human polymorphonuclear leukocytes (PMNs). European journal of pharmaceutical sciences. 49 (2013) 206-219; IF = 2.987; Times cited WoS 0; Q2.
6) Z. Marković, D. Milenković, J. Đorović, J.M. Dimitrić Marković, V. Stepanić, B. Lučić, D. Amić, PM6 and DFT study of free radical scavenging activity of morin. Food Chemistry 134 (2012) 1754-1760; IF = 3.259; Times cited WoS 23; Q1.
7) V. Stepanić, D. Žiher, V. Gabelica-Marković, D. Jelić, S. Nunhuck, K. Valko, S. Koštrun. Physicochemical profile of macrolides and their comparison with small molecules. European Journal of Medicinal Chemistry 47 (2012) 462-472; IF = 3.346; Times cited WoS 3; Q1.
8) D. Verbanac, C. Jain, Subhash N. Jain, M. Chand, H. Čipčić Paljetak, M. Matijašić, M. Perić, V. Stepanić, L. Saso, An efficient and convenient microwave-assisted chemical synthesis of (thio)xanthones with additional in vitro and in silico characterization. Bioorganic & medicinal chemistry. 20 (2012) 3180-3185; IF = 2.903; Times cited WoS 1; Q2.
9) Z. Marković, D. Milenković, J. Đorović, J. Dimitrić Marković, V. Stepanić, B. Lučić, D. Amić, Free radical scavenging activity of morin 2'-O− phenoxide anion. Food chemistry. 135 (2012) 2070-2077; IF = 3.259; Times cited WoS 5; Q1.
10) V. Stepanić, S. Koštrun, I. Malnar, M. Hlevnjak, K. Butković, I. Ćaleta, M. Dukši, G. Kragol, O. Makaruha-Stegić, L. Mikac, J. Ralić, I. Tatić, B. Tavčar, K. Valko, S. Zulfikari, V Munić. Modeling Cellular Pharmacokinetics of 14- and 15-membered Macrolides with Physicochemical Properties. Journal of medicinal chemistry. 54 (2011) 719-733; IF = 5.207; Times cited WoS 14; Q1.
11) D. Verbanac, D. Jelić, V. Stepanić, I. Tatić, D. Žiher, S. Koštrun. Combined in silico and in vitro Approach to Drug Screening. Croatica chemica acta. 78 (2005) 133-139; IF = 0.763; Times cited WoS 16; Q2.
12) V. Stepanić, G. Baranović. Ground and excited states of isodiazene - an ab initio study. Chemical physics. 254 (2000) 151-168; IF = 2.028; Times cited WoS 10; Q3.

Book chapter:

Stepanić V, Novak Kujundžić R, Gall Trošelj K. Epigenome, Cancer Prevention and Flavonoids and Curcumin // Epigenetics and Epigenomics / Christopher J. Payne (ur.). Rijeka : InTech, 2014. Pp. 173-209

Other scientific papers:

D. Verbanac, V. Stepanić, Novi pogled na istraživanje lijekova – nove formulacije i kombinacije. Farmaceutski tehničar : stručno informativni časopis farmaceutskih tehničara Hrvatske. 63 (2013) 7-12.

V. Stepanić, N. Došlić,Teorijski pristupi kemijskoj reaktivnosti. 1. Dinamički pristup. Kemija u industriji. 49 (2000) 467–476.

V. Stepanić, S. Sekušak, Teorijski pristupi kemijskoj reaktivnosti. 2. Statistički pristup. Kemija u industriji. 49 (2000) 519–525.

OTHER RESEARCH ACTIVITIES

Reviewer for Croatica Chemica Acta, European Journal of Medicinal Chemistry, Journal of Medicinal Plants Research, Journal of Separation Science, Molecules