

# Curriculum Vitae

## Personal information

First name / Surname: Boris PEJIN  
Telephone: +381 63 433 763 (mobile)  
E-mail: borispejin@imsi.rs, brspjn@gmail.com  
Nationality: Serbian  
Date of birth: 07. 01. 1976  
Gender: Male

## Desired employment / Occupational field      University Professor

Dates: October 2011 –

Occupation or position held: Research Assistant Professor

Main activities and responsibilities: Natural Products (different aspects)

Name and address of employer: Institute for Multidisciplinary Research - Department of Life Sciences, University of Belgrade, 1, Kneza Viseslava, 11000 Belgrade, Serbia

Type of business or sector: Serbian academic institution

Dates: August 2011 –

Occupation or position held: Researcher

Main activities and responsibilities: Natural Products (different aspects)

Name and address of employer: Institute of Chemistry, Technology and Metallurgy - Center of Chemistry, University of Belgrade, 12, Njegoseva, 11000 Belgrade, Serbia

Type of business or sector: Serbian academic institution

Dates: May 2011 – August 2011

Occupation or position held: Researcher (**European Commission Fellowship Holder, The HPC-Europa2 project, 3 months**)

Main activities and responsibilities: Development of new semisynthetic inhibitors of acetylcholinesterase (AChE) as potential anti-Alzheimer drugs by an integrated computational-experimental approach

Name and address of employer: European Commission, EPCC, The University of Edinburgh, Edinburgh H9 3JZ, UK, HPC-Europa2, Transnational Access Co-ordinator

Type of business or sector: European institution (**Institute of Biomolecular Chemistry CNR-ICB, Pozzuoli-Naples, Italy**)

Dates: January 2010 – May 2011

Occupation or position held: Researcher

Main activities and responsibilities: Natural Products (semisynthetic derivatives)

Name and address of employer: Institute of Chemistry, Technology and Metallurgy - Center of Chemistry, University of Belgrade, 12, Njegoseva, 11000 Belgrade, Serbia

Type of business or sector: Serbian academic institution

Dates: March 2009 – December 2009

Occupation or position held: Exchange Ph. D student in Chemistry (**European Commission Fellowship Holder, The Basileus project, 10 month mobility period**)

Main activities and responsibilities: Moss chemistry investigation

Name and address of employer: European Commission, Basileus Secretariat, 4 a-d, Onderbergen, BE-9000 Ghent

Type of business or sector: European institution (**Sapienza University of Rome, Rome, Italy**)

Dates: August 2008 – February 2009  
Occupation or position held: Researcher  
Main activities and responsibilities: Natural Products (biological activities' evaluation)  
Name and address of employer: Institute of Chemistry, Technology and Metallurgy - Center of Chemistry, University of Belgrade, 12, Njegoseva, 11000 Belgrade, Serbia  
Type of business or sector: Serbian academic institution

Dates: February 2008 – July 2008  
Occupation or position held: Researcher (**Italian Government Fellowship Holder, 6 months**)  
Main activities and responsibilities: Participating in research project "Chemistry of Marine Micro-organisms"  
Name and address of employer: Ministry of Foreign Affairs, Italian Government  
Type of business or sector: European institution (**Institute of Biomolecular Chemistry CNR-ICB, Pozzuoli-Naples, Italy**)

Dates: August 2007 – January 2008  
Occupation or position held: Researcher  
Main activities and responsibilities: Natural Products (structure identification)  
Name and address of employer: Institute of Chemistry, Technology and Metallurgy - Center of Chemistry, University of Belgrade, 12, Njegoseva, 11000 Belgrade, Serbia  
Type of business or sector: Serbian academic institution

Dates: February 2007 – July 2007  
Occupation or position held: Researcher (**Italian Government Fellowship Holder, 6 months**)  
Main activities and responsibilities: Participating in research project "Chemistry of Natural Products"  
Name and address of employer: Ministry of Foreign Affairs, Italian Government  
Type of business or sector: European institution (**Institute of Biomolecular Chemistry CNR-ICB, Pozzuoli-Naples, Italy**)

Dates: July 2006 – January 2007  
Occupation or position held: Researcher  
Main activities and responsibilities: Natural Products (isolation)  
Name and address of employer: Institute of Chemistry, Technology and Metallurgy - Center of Chemistry, University of Belgrade, 12, Njegoseva, 11000 Belgrade, Serbia  
Type of business or sector: Serbian academic institution

Dates: December 2003 – January 2005  
Occupation or position held: Resarcher (Civil Army Service)  
Main activities and responsibilities: Food Chemistry  
Name and address of employer: Institute of Public Health of Serbia "Dr Milan Jovanovic-Batut", 5, Dr Subotica, 11000 Belgrade, Serbia  
Type of business or sector: Serbian academic institution

### **Education and training**

Dates: 15 – 21 September 2012  
Title of qualification awarded: European Society of Hypertension Certificate (**European Society of Hypertension Fellowship Holder**)  
Principal subjects/occupational skills covered: 2012 Summer School in Dublin, Republic of Ireland  
Name and type of organisation providing education and training: European Society of Hypertension

Dates: 10 – 12 September 2012

Title of qualification awarded: BMBS COST Action BM0903 Certificate (**COST Action Fellowship Holder**)

Principal subjects/occupational skills covered: 2012 Summer School in Split, Republic of Croatia

Name and type of organisation providing education and training: BMBS COST ACTION BM0903

Dates: 26 December 2011

Title of qualification awarded: Ph. D in Chemistry

Principal subjects/occupational skills covered: Thesis Title "The chemical composition and medicinal potential of selected species of lichens, bryophytes and sponges"

Name and type of organisation providing education and training: Faculty of Chemistry, University of Belgrade, Serbia

Dates: 19 – 21 March 2010

Title of qualification awarded: Masterclass Certificate

Principal subjects/occupational skills covered: Science Communication

Name and type of organisation providing education and training: British Council with Cheltenham Festivals

Dates: 8 – 12 June 2009

Title of qualification awarded: Training Course Certificate (**United Nations Fellowship Holder, selected as a young leader from Serbia in natural product drug discovery research**)

Principal subjects/occupational skills covered: Computer Design and Discovery of Potential Drugs for Developing Countries

Name and type of organisation providing education and training: **SISSA, Trieste, Italy**

Dates: 1 – 7 June 2009

Title of qualification awarded: Conference Certificate (**United Nations Fellowship Holder, selected as a young leader from Serbia in natural product drug discovery research**)

Principal subjects/occupational skills covered: 2nd Conference on Drug Development for the Third World: from Computational Molecular Biology to Experimental Approaches

Name and type of organisation providing education and training: **ICS-UNIDO, Trieste, Italy**

Dates: February 2008 – July 2008

Title of qualification awarded: Academic course Certificate, 6 ECTS

Principal subjects/occupational skills covered: Chemistry of Heterocyclic Compounds

Name and type of organisation providing education and training: **Faculty of Pharmacy, University of Naples "Federico II", Naples, Italy (Ministry of Foreign Affairs, Italian Government Fellowship Holder)**

Date: 28 September 2007

Title of qualification awarded: Graduate Biochemist – Master

Principal subjects/occupational skills covered: Thesis Title "Flavonoids from the aerial part of *Onobrychis montana* DC. subsp. *scardica* (Griseb) P.W.Ball"

Name and type of organisation providing education and training: Faculty of Chemistry, University of Belgrade, Serbia

Date: 23 June 2006

Title of qualification awarded: Graduate Biochemist

Principal subjects/occupational skills covered: Thesis Title "The isolation and identification of leucanthoside A, a new triterpenoid saponin from *Cephalaria leucantha* L."

Name and type of organisation providing education and training: Faculty of Chemistry, University of Belgrade, Serbia

Date: 27 February 2001

Title of qualification awarded: First Prize of the Belgrade University for the best scientific-research paper in the field of natural sciences and mathematics in the 1999/2000. academic year

Principal subjects/occupational skills covered: Paper Title "Dismutation of NO into NO<sup>+</sup> and NO<sup>-</sup> species catalyzed by iron ions in the presence of uric acid"

Name and type of organisation providing education and training: Faculty of Chemistry, University of Belgrade, Serbia

## Personal skills and competences

### Languages

Mother tongue: Serbian

Other languages:

English	C1	(understanding, speaking and writing)
Italian	B2	(understanding, speaking and writing)
Russian	B1	(understanding, speaking and writing)
Norwegian	A1	(understanding, speaking and writing)

### Organisational skills and competences

Leadership: e.g. 18 year experience as a volunteer teacher in biology and chemistry for elementary-school students; supervisor of 2 defended master theses and 2 master theses in progress; nominated for a Ph. D committee in the University of Belgrade (2) and University of Novi Sad, Serbia (1); 5 invited academic lectures (3 in Serbia and 2 in Italy); proposed to be a leader in two international projects (in EUREKA and Bilateral project with PR China, respectively) currently under evaluation

Sense of organisation: e.g. 5 year experience in logistics (contributor to the Editorial staff of the *Chemical Review*, professional journal of the Serbian Chemical Society)

Good experience in project management: gained, *inter alia*, through different seminars for Serbian teachers of chemistry in elementary and secondary schools from 2000 to 2002.

**Recommendations** available upon request

### Additional information

September 1995 – member of the Serbian Chemical Society; December 2000 – member of the Yugoslav Biochemical Society, from July 2011 – Serbian Biochemical Society; December 2006 – member of the Science Popularisation Society Novi Sad; April 2012 – member of the International Bryozoology Association IBA; May 2012 – member of the Association of Italian and Serbian Scientists and Researchers AIS<sup>3</sup>; October 2012 – member of the European Society of Hypertension (ESH).

## References

1. **B. Pejin**, C. Iodice, G. Tommonaro, S. De Rosa. Synthesis and biological activities of thio-avarol derivatives, *Journal of Natural Products* 2008 71(11), 1850-1853.
2. D. Godjevac, **B. Pejin**, G. Zdunic, K. Savikin, D. Stesevic, V. Vajs, S. Milosavljevic. Flavonoids from the aerial part of *Onobrychis montana* subsp. *scardica*, *Journal of the Serbian Chemical Society* 2008 73(5), 525-529.
3. A. Sabovljević, M. Soković, J. Glamočlija, A. Ćirić, M. Vujičić, **B. Pejin**, M. Sabovljević. Comparison of extract bio-activities of *in-situ* and *in vitro* grown selected bryophytes species, *African Journal of Microbiology Research* 2010 4(9), 808-812.
4. **B. Pejin**, Lj. Vujisic, M. Sabovljevic, A. Sabovljevic, V. Tesevic, V. Vajs. Preliminary analysis of fatty acid chemistry of *Kindbergia praelonga* and *Kindbergia stokesii* (Brachytheciaceae), *Journal of the Serbian Chemical Society* 2010 75(12), 1637-1640.
5. A. Sabovljević, M. Soković, J. Glamočlija, A. Ćirić, M. Vujičić, **B. Pejin**, M. Sabovljević. Bio activities of extracts from some axenically farmed and naturally grown bryophytes, *Journal of Medicinal Plants Research* 2011 5(4), 565-571.
6. **B. Pejin**, Lj. Vujisic, M. Sabovljevic, V. Tesevic, V. Vajs. Preliminary data on essential oil composition of the moss *Rhodobryum ontariense* (Kindb.) Kindb., *Cryptogamie Bryologie* 2011 32(2), 113-117.
7. **B. Pejin**, Lj. Vujisic, M. Sabovljevic, V. Tešević, V. Vajs. An insight into fatty acid chemistry of *Rhytidelphus squarrosus* (Hedw.) Warnst., *Botanica Serbica* 2011 35(2), 99-102.
8. **B. Pejin**, Lj. Vujisic, M. Sabovljevic, V. Tesevic, V. Vajs. An insight into fatty acid composition of *Calliergonella cuspidata*, *Asian Journal of Chemistry* 2011 23(11), 5161-5162.
9. **B. Pejin**, Lj. Vujisic, A. Sabovljevic, M. Sabovljevic, V. Tesevic, V. Vajs. Fatty acids of some moss species from Germany, *Asian Journal of Chemistry* 2011 23(11), 5187-5188.
10. **B. Pejin**, Lj. Vujisic, M. Sabovljevic, V. Tesevic, V. Vajs. The moss *Mnium hornum*, a promising source of arachidonic acid, *Chemistry of Natural Compounds* 2012 48(1), 120-121.
11. **B. Pejin**, C. Iodice, G. Tommonaro, M. Sabovljevic, A. Bianco, V. Tesevic, V. Vajs, S. De Rosa. Sugar composition of the moss *Rhodobryum ontariense* (Kindb.) Kindb., *Natural Product Research* 2012 26(3), 209-215.
12. **B. Pejin**, A. Bianco, S. Newmaster, M. Sabovljevic, Lj. Vujisic, V. Tesevic, V. Vajs, S. De Rosa. Fatty acids of *Rhodobryum ontariense* (Bryaceae), *Natural Product Research* 2012 26(8), 696-702.
13. **B. Pejin**, G. Tommonaro, C. Iodice, V. Tesevic, V. Vajs. Acetylcholinesterase inhibition activity of a mixture of methylated depsidones from the lichen *Lobaria pulmonaria*, *Asian Journal of Chemistry* 2012 24(7), 3261-3262.
14. **B. Pejin**, Y. Kien-Thai, B. Stanimirovic, G. Vuckovic, D. Belic, M. Sabovljevic. Heavy metal content of a medicinal moss tea for hypertension, *Natural Product Research* 2012, 26(23), 2239-2242.
15. **B. Pejin**, G. Tommonaro, C. Iodice, V. Tesevic, V. Vajs. Acetylcholinesterase inhibition activity of acetylated depsidones from *Lobaria pulmonaria*, *Natural Product Research* 2012, 26(17), 1634-1637.
16. **B. Pejin**, Lj. Vujisic, M. Sabovljevic, V. Tešević, V. Vajs. Fatty acid chemistry of *Atrichum undulatum* and *Hypnum andoi*, *Hemijska industrija (Chemical Industry)* 2012, 66(2), 207-209.
17. **B. Pejin**, A. Sabovljević, M. Soković, J. Glamočlija, A. Ćirić, M. Vujičić, M. Sabovljević. Antimicrobial activity of *Rhodobryum ontariense*, *Hemijska industrija (Chemical Industry)* 2012, 66(3), 381-384.
18. **B. Pejin**, J. Bogdanovic-Pristov, I. Pejin, M. Sabovljevic. Potential antioxidant activity of the moss *Bryum moravicum*, *Natural Product Research* 2012, in press, DOI: 10.1080/14786419.2012.665915.
19. **B. Pejin**, Y. Kien-Thai, J. Bogdanovic-Pristov, I. Pejin, I. Spasojevic. *In vitro* investigation of the antihypertensive effect of the moss *Rhodobryum ontariense* (Kindb.) Kindb., *Digest Journal of Nanomaterials and Biostructures* 2012 7(1), 353-359.
20. **B. Pejin**, M. Sabovljevic, V. Tesevic, V. Vajs. Further study on fructooligosaccharides of *Rhodobryum ontariense*, *Cryptogamie Bryologie* 2012 33(2), 191-196.
21. **B. Pejin**, J. Bogdanović-Pristov. ABTS cation scavenging activity and total phenolic content of three moss species, *Hemijska industrija (Chemical Industry)* 2012, 66(5), 723-726.
22. **B. Pejin**, G. Tommonaro, C. Iodice, V. Tesevic, V. Vajs, S. De Rosa. A new depsidone of *Lobaria pulmonaria* with acetylcholinesterase inhibition activity, *Journal of Enzyme Inhibition and Medicinal Chemistry* 2012, in press, DOI: 10.3109/14756366.2012.677839.
23. **B. Pejin**, J. Glamočlija, A. Ćirić, K. Radotić, V. Vajs, V. Tesevic, A. Hegedis, I. Karaman, M. Horvatic, M. Sokovic. Antimicrobial activity of the freshwater bryozoan *Hyalinella punctata* (Hancock, 1850), *Digest Journal of Nanomaterials and Biostructures* 2012 7(3), 1021-1026.
24. **B. Pejin**, G. Tommonaro, C. Iodice, V. Tesevic, V. Vajs, V. Tesevic, S. De Rosa. A new lichen depsidone from *Lobaria pulmonaria*, *Digest Journal of Nanomaterials and Biostructures* 2012 7(4), 1663-1666.
25. **B. Pejin**, D. Belic, G. Vuckovic, Y. Kien-Thai, B. Stanimirovic. Mineral content of a moss tea for hypertension, *Italian Journal of Food Science* 2013, in press. (will be published in Volume 25, No. 2)
26. **B. Pejin**, G. Tovilovic, Dj. Ignjatovic, Y. Kien-Thai, M. Tomic. Sedative and anxiolytic-like activities of the moss *Rhodobryum ontariense* water extract in rodents: a preliminary study, *Cryptogamie Bryologie* 2013 34(1), 49-54.
27. **B. Pejin**, S. Stosic-Grujicic, G. Bogdanovic, A. Hegedis, I. Karaman, I. Stojanovic, I. Nikolic, V. Kojic, M. Horvatic, K. Radotić. *In vitro* evaluation of the immunomodulatory and anticarcinogenic activity of the freshwater bryozoan *Hyalinella punctata* methanolic extract, *Digest Journal of Nanomaterials and Biostructures* 2013 8(1), 187-195.
28. **B. Pejin**, B. Stanimirovic, N. Djordjevic, A. Hegedis, I. Karaman, M. Horvatic, K. Radotić. *In vitro* radioprotective activity of the bryozoan *Hyalinella punctata*, *Asian Journal of Chemistry* 2013 25(8), 4713-4714.
29. **B. Pejin**, Y. Kien-Thai. Electron spin resonance estimation of hydroxyl radical scavenging capacity of a medicinal moss tea, *Digest Journal of Nanomaterials and Biostructures* 2013, 8(1), 291-294.
30. **B. Pejin**, J. Glamočlija, A. Ćirić, Y. Kien-Thai, M. Sokovic. The moss *Rhodobryum ontariense* tea, a good source of natural antifungals against *Candida albicans*, *Revista de Chimie* 2013, in press. (will be published in Volume 64, No. 5)
31. **B. Pejin**, G. Tommonaro, C. Iodice, V. Tesevic, V. Vajs, S. De Rosa. Deoxyctic acid, a novel  $\beta$ -orcinol depsidone of *Lobaria pulmonaria*, *Digest Journal of Nanomaterials and Biostructures* 2013, in press.

Dr. PEJIN has a total of 30 published or accepted original research publications in international peer reviewed journals. Of these he appears as first author in 27, as second author in 1 and as one of authors in 2 publications which reflects his contribution to the research. Moreover, at the moment he has a total of 3 manuscripts under revision where he appears as first author.

### Selected conferences

1. **B. Pejin**. Acetylcholinesterase inhibitory activity of thio-avarol derivatives, *Serbia Italia Status and Perspectives of the Scientific and Technological Bilateral Cooperation*, Belgrade, SRB, June 25-26, 2012, AIS<sup>3</sup> Abstract Book, p. 26.
2. **B. Pejin**, Y. Kien-Thai, I. Spasojevic. Preliminary electron spin resonance estimation of hydroxyl radical scavenging capacity of a traditional Chinese herbal medicine for cardiovascular diseases, *22<sup>nd</sup> European Meeting on Hypertension and Cardiovascular Protection*, London, UK, April 26-29, 2012, ESH 2012 Abstract Book (Journal of Hypertension, Volume 30, e-supplement A, April 2012), e537.
3. **B. Pejin**, S. Newmaster, M. Sabovljevic, Z. Miloradovic, J. Grujic-Milanovic, M. Ivanov, N. Mihailovic-Stanojevic, Dj. Jovovic, V. Tesevic, V. Vajs. Antihypertensive effect of the moss *Rhodobryum ontariense in vivo*, *21<sup>st</sup> European Meeting on Hypertension and Cardiovascular Protection*, Milan, Italy, June 17-21, 2011, ESH 2011 Abstract Book (Journal of Hypertension, Volume 29, e-supplement A, June 2011), e315. (**European Society of Hypertension Fellowship Holder**)
4. **B. Pejin**, Lj. Vujisic, M. Vujicic, M. Sabovljevic, V. Tesevic, V. Vajs. Qualitative and quantitative analyses of fatty acids in randomly chosen moss species, *Moss 2009 - The Annual International Conference for Experimental Moss Research*, St. Louis, USA, October 22-25, 2009, Book of Abstracts, p. 50.
5. **B. Pejin**, Lj. Vujisic, M. Sabovljevic, V. Tesevic, V. Vajs. An insight into chemo-taxonomy of *Eurhynchium praelongum* (Hedw.) Schimp. and *Eurhynchium stokesii* (Turn.) Schimp., *5<sup>th</sup> Balkan Botanical Congress*, Belgrade, Serbia, September 7-11, 2009, Book of Abstracts, p. 85.
6. S. De Rosa, **B. Pejin**, G. Tommonaro. Anti-inflammatory marine natural products with antipsoriatic effects, *4<sup>th</sup> International Conference on Oxidative Stress in Skin Medicine and Biology*, Andros, Greece, September 11-14, 2008, Book of Abstracts, p. 53.

Till date, Dr. PEJIN took part in 16 meetings, 7 conferences, 1 symposium and 1 congress with 30 presentations in total (19 poster and 11 oral presentations).

### COST

BMBS COST ACTION BM0903 (Skin Barrier and Atopic Diseases "SKINBAD"), financed by the EU (2009 – 2013), member of the Management Committee (**MC member**)

BMBS COST ACTION BM1007 (Mast Cells and Basophils – Targets for Innovative Therapies), financed by the EU (2011 – 2015), member of the Management Committee (**MC member**)

FA COST ACTION FA1206 (Strigolactones: biological roles and applications), financed by the EU (2013 – 2017), member of the Management Committee (**MC member**)