

CURRICULUM VITAE

Lada Zivkovic, Ph.D
Assistant Professor

Name: Lada Zivkovic

Date and place of birth: 19 December 1970, Belgrade

Home address: Svetozara Markovica 11, 11000 Belgrade, Serbia

Family status: Married, two children Tara (15) and Vidak (6)

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Name of employment organization: The Faculty of Pharmacy University of Belgrade,
Department of Physiology

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Scientific branch: Human Genetics

Research interest:

Role of centromere and centromere associated proteins in Alzheimer's Disease (main field)

Genetics of ageing

Genetic toxicology of hormones and related substances

Education

- 2010** Ph.D. in Biological Science
Faculty of Biology University of Belgrade
Thesis: "Genomic instability in Alzheimer disease patients"
- 2004** M.Sc. in Biological Science
Faculty of Biology University of Belgrade.
Thesis: "Cytogenetic analysis of premature centromere division in Alzheimer disease patients "
- 1996** Graduate degree
The Faculty of Molecular Biology and Physiology University of Belgrade

Employment and University Position

- 2011** Assistant Professor, Faculty of Pharmacy University of Belgrade
- 2005-2011** Teaching and Research Assistant (M.Sc.), Faculty of Pharmacy University of Belgrade
- 2000-2005** Junior Teaching and Research Assistant, Faculty of Pharmacy University of Belgrade

- 1999-2000** Sales Manager at the Sigma-Aldrich, Belgrade, Serbia
- 1997-1998** Research Assistant, Department of Genetics and Plant Breeding, The Faculty of Agriculture University of Belgrade
- 1996-1997** Institute for Biomedical Research, The Institute of Galenika a.d. (research volunteer work)

Courses taught at the Faculty of Pharmacy University of Belgrade

Biology with Human Genetics - Undergraduate Studies
Molecular Genetics - Undergraduate Studies
Biotechnology - Undergraduate Studies
Genotoxicology -Undergraduate Studies

Publications: Number of full citations is 40

Special Training and Fellowships

- 1990** Six weeks in the Karyobiology Laboratory: International project "*In situ* hybridization in wheat", John Innes Institute, Norwich, Great Britain, internship.
- 1995** Eight weeks in the Training and Work Experience Scheme „Isolation of cherry DNA with high yield and purity“, Laboratory for Genetics and Breeding, Horticulture Research Institute, Kent, Great Britain, research for diploma thesis, HRI fellowship.
- 1997** Four-week course „Plant Biotechnology and Application“, International Center for Advanced Mediterranean Agronomic Studies (CIHEAM) Chania, Crete, Greece, fellowship.
- 1998** Two-week course „Molecular and Biotechnological Aspect of Sexual Reproduction in Higher Plants“, Martonvásár, Hungary, UNESCO fellowship

Membership and Activities in Professional Association

Serbian Genetical Society
Serbian Alzheimer's Disease Society
Member of the Editorial Board of the Scientific Journal Advances in Alzheimer' s Disease

Awards

- 1989** First Place, Yugoslavian Championship in Windsurfing, Division 2 Women, Viganj.

Open Project

2011-2014 „Aberration of the Cell Cycle and the Impact of Oxidative Stress in Neurodegenerative Processes and Malignant Transformation of Cell“. The scientific project No173034. Project is financed by the Ministry of Science and Technology, Republic of Serbia.

2013-2015 “Aberrations of the cell cycle and influence of the oxidative stress on neurodegenerative processes and malignant transformation of the cell”. Bilateral co-operation between the Republic of Italy and Republic of Serbia.

Projects:

2006-2010 "Evaluation of the effects of hormones and cytostatics using cytogenetic analysis and the Comet assay" Project No 1870. Collaborative project between the Faculty of Veterinary Medicine and the Faculty of Pharmacy University of Belgrade. Project was financed by the Ministry of Science and Technology, Republic of Serbia.

2005-2007 "The Simultainly Effect of Microcistein, Estrogene and Thireoide Hormones on the Cytogenetic Changes and Alterations of DNA in Human Lymphocyte Cultures and HepG2 Cells". Bilateral co-operation between the Republic of Slovenia and Republic of Serbia.

2002-2005 "Evaluation of the effects of Hormons and Cytostatics ", colaborative project between the Faculty of Veterinary Medicine and Faculty of Pharmacy. Project No143012. Project was financed by the Ministry of Science and Technology, Republic of Serbia.

Foreign Languages

English	Fluent
French	Moderate
Russian	Fair

Hobbies and Other activities

Windsurfing
Kite surfing
Skiing

Publications Lada Zivkovic

1. Cabarkapa A, **Zivković L**, Zukovec D, Djelić N, Bajić V, Dekanski D, Spremo-Potparević B. Protective effect of dry olive leaf extract in adrenaline induced DNA damage evaluated using in vitro comet assay with human peripheral leukocytes. *Toxicol In Vitro*. 2014.
2. Milićević Z, Bajić V, **Zivković L**, Kasapović J, Andjelković U, Spremo-Potparević B. Identification of p53 and Its Isoforms in Human Breast Carcinoma Cells. *ScientificWorld Journal*. 2014. 5;2014:618698. doi: 10.1155/2014/618698.
3. **Zivković L**, Spremo-Potparević B, Siedlak SL, Perry G, Plečaš-Solarović B, Milićević Z, Bajić VP. DNA Damage in Alzheimer Disease Lymphocytes and Its Relation to Premature Centromere Division. *Neurodegener Dis.*;12(3):156-63.
4. **Zivkovic Lada P**, Bajic Vladan P, Zukovec Dijana, Cabarkapa Andrea, Spremo-Potparevic Biljana. Alterations of Acrocentric Chromosomes in Peripheral Blood Lymphocytes in Patients with Alzheimer'S Disease (Article) *ARCHIVES OF BIOLOGICAL SCIENCES*, (2013), vol. 65 br. 2, str. 439-445.
5. **Zivkovic Lada P**, Djelic Ninoslav J, Bajic Vladan P, Bogavac-Stanojevic Natasa, Zukovec Dijana, Cabarkapa Andrea, Spremo-Potparevic Biljana. Evaluation of DNA Damage in the Lymphocytes of Young, Elderly and Alzheimer'S Disease Patients Treated with Beta-Estradiol in the Comet Assay . *JOURNAL OF MEDICAL BIOCHEMISTRY*, (2013), vol. 32 br. 3, str. 238-244
6. Bajic Vladan,; Spremo-Potparevic Biljana,; Vesna Mandusic,; Milicevic Zorana; **Lada Zivkovic**. Instability in X chromosome inactivation patterns in AMD: a new risk factor? *Ophthalmol* 2013; Vol. 2, No 3 Medical Hypothesis, Discovery &Innovation Ophthalmology Journal
7. V.P.Bajic, D.J Bonda, **L. Zivkovic**, Z. Milicevic,B.Plecas Solarevic, Xiongwei Zhu and B.Spremo Potparevic. The Role of centromere cohesion and associated proteins in Alzheimer's Disease: A relation to Aneuploidy? In. *Aneuploidy" Etiology, Disorders and Risk Factors*, Editors: Salvatore de Rossi and Filippo Bianchi. Chapter IV, pp 77-90, ISBN:978-1-62100-070-9, 2012 Nova Science Publishers, INC. USA.
8. B. Spremo-Potparević, **L. Živković**, B. Plečas-Solarović and V.P. Bajić. 2011. Chromosome instability in Alzheimer's disease. *Arch. Biol.Ssci.*, Belgrade, 63 (3), 603-608..
9. Bajić VP, Su B, Lee HG, Kudo W, Siedlak SL, **Zivković L**, Spremo-Potparević B, Djelic N, Milicevic Z, Singh AK, Fahmy LM, Wang X, Smith MA, Zhu X. 2011. Mislocalization of CDK11/PITSLRE, a regulator of the G2/M phase of the cell cycle, in Alzheimer disease. *Cell Mol Biol Lett*. 16(3):359-72
10. Radakovic M, Djelic N, Stanimirovic Z, Plecas-SB., Spremo-Potparevic B, **Zivkovic L**, Bajic V. 2011. Evaluation of the effects of ephedrine on human lymphocytes in the Comet assay. *Acta Veterinaria*. Vol 61 no 4. pp 363-371.

11. **Lada Živković**, Bosiljka Plećaš, Vladan Bajić, Ninoslav Đelić, Biljana Spremo-Potparević. 2011. Ispitivanje genetičke nestabilnosti leukocita periferne krvi pacijenata sa Alchajmerovom bolešću primenom Komet testa. Arh. Farm. vol. 61, br. 1, str. 28-41
12. **L. Živkovic**, B. S. Potparevic, Bosiljka Plecas-Solarevic, Ninoslav Djelic, Gordana Ocic, Predrag Smiljkovic, Sandra Siedlak, M. A. Smith and Vladan Bajic. 2010. Premature Centromere Division of Metaphase Chromosomes in Peripheral Blood Lymphocytes of Alzheimer's Disease Patients: Relation to Gender and Age. J Geront A Biol Med Sci, J Gerontol A Biol Sci Med Sci. 65A(12):1269–1274
13. Vladan Bajic, **L. Živkovic**, B. S. Potparevic, Sandra Siedlak, M. A. Smith. 2010. RAD 21 cohesion protein shows altered levels of expression in Swedish mutant phenotype of M17 neuroblastoma cells. PI-288. Alzheimer's & Dementia: The Journal of the Alzheimer's Association Vol. 6, Issue 4, Supplement, Page S257
14. Vladan Bajic, Zoran Stanimirovic, Jevrosima Stevanovic, Zorka Milicevic, **Lada Živkovic**, Biljana Spremo-Potparevic, 2010. Effect of Paclitaxel alone and in combination with Cycloheximide on the Frequency of Premature Centromere Division *in vitro*. Arch of Biol Sci. 62(1), 63-74
15. Bajic, V., Siedlak, S., **Živkovic, L.**, Spremo-Potparevic, B., Gemma Casadeus and Smith MA. 2009. The X-chromosome instability phenotype in Alzheimer's disease: A clinical sign of accelerating aging? Medical Hypothesis, 73(6):917-20
16. Plećaš B, **Živković L**, Potparević B. 2009. Biology and physiology of aging. Arh.farm 59:357-372
17. Bajic V, Stanimirovic Z, Stevanovic J, Spremo-Potparevic B, **Živkovic L**, Milicevic Z. 2009. Cytogenetic effects of 8-Cl-cAMP on human and animal chromosomes. J BUON. 14(1):71-77
18. Djelić N., Spremo-Potparević B., **Živković L**. Molecular mechanisms of mutagenic effects of hormones. In Recent Trends in Toxicology, Research Singpost, Transworld Research Network, Kerala, India, Editor Yasir Hasan Siddique 2008, 1-22. ISBN 978-81-7895-384-7
19. Bajic V., Spremo-Potparavic B., Milicevic Z., Djelic N. and **Živkovic L**, 2008. A study on the genotoxic effects of 8-Cl-cAMP on human lymphocytes *in vitro*. Russian Journal of Genetics, 44, No 5, 1-7
20. Biljana Spremo-Potparević, **Lada Živković**, Ninoslav Djelić and Vladan Bajić, 2008. Premature centromere division (PCD) of the X chromosome of cerebral cortex cells in Alzheimer disease patients. Journal of Neurochemistry, 106 (5):2218-23
21. Vladan P. Bajić, Biljana Spremo-Potparević, **Lada Živković**, Ninoslav Djelić, Mark A. Smith, 2008. Is the time dimension of the cell cycle re-entry in AD regulated by centromere cohesion dynamics? Biosciencel Hypothesis Vol 1, Issue 3. pp:156-161
22. Djelic N, Spremo-Potparevic B, **Živkovic L**, Markovic B, Dacic S. 2008. *In vitro* analysis of clastogenic effects of adrenaline on human lymphocytes. Archives of Biological Sciences 60(3):15P-16P
23. Bajić V, Djelić N, Spremo-Potparević B, **Živković L**, Milićević Z. 2008 A study on the genotoxic effects of 8-Cl-cAMP on human lymphocytes *in vitro*. Genetika 44(5):546-552

24. Djelic N, Djelic D, Spremo-Potparevic B, **Zivkovic L**, Markovic B, Lozance O, Blagojevic M. 2007 Lack of clastogenic effects of L-thyroxine in whole-blood cultured human lymphocytes. *Genetics and Molecular Biology*, 30(4):1144 -1149
25. Bajic V., Spremo-Potparavic B., Milicevic Z. and **Zivkovic L**. 2007. Deregulated sequential motion of centromeres induced by antitumor agnets may lead to genome instability in human peripheral blood lymphocytes. *Journal of BUON* 12: 77-83
26. Spremo-Potparević B., **Živković L.**, Drakulić D., Bajić V., Djelić N. Premature centromere division (PCD) of the X chromosome as a bio-marker of the brain cells re-entry into the cell division cycle in Alzheimer's disease. In *Frontiers in Alzheimer's Disease Research*, Nova Science Publishers, Inc., New York, USA, Editor E.M.Welsh 2006, 163-177. ISSN 1-59454-929-X3.
27. **L. Zivkovic**, B. Spremo-Potparevic, N. Djelic and V.Bajic, 2006: Analysis of premature centromere division (PCD) of the chromosome 18 in peripheral blood lymphocytes of Alzheimer's disease patients. *Mechanism of Ageing and Development*, 127:892-896
28. Djelic N, Spremo-Potparevic B, Markovic B, **Zivkovic L**, Djelic D. 2006. Cell cycle kinetics and cytogenetic changes in human lymphocytes exposed to estradiol *in vitro*. *Acta Veterinaria* 56 (1):37-48
29. Spremo-Potparevic B, **Zivkovic L**, Djelic N and Bajic V., 2004. Analysis of premature centromere division (PCD) of the X chromosome in Alzheimer patients through the cell cycle. *Journal of Exper. Gerontology* 39 : 849-854
30. Djelic N, Djelic D, Spremo-Potparevic B, Markovic B, **Zivkovic L**. 2003. Cytogenetic analysis of the effects of epinephrine on cultured human lymphocytes. *Acta Veterinaria* 53(2-3):113-120