

Curriculum Vitae

Darko Bosnakovski, Ph.D

Name Surname Darko Bosnakovski
Title DVM; PhD
Position Associate professor
Molecular biology and Pharmacogenetics
Faculty of Medical Sciences,
University "Goce Delcev" Stip, Macedonia
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Education

| INSTITUTION AND LOCATION | DEGREE | YEAR(s) | FIELD OF STUD |
|---|--------------|---------|--|
| National University "St. Cyril and Methodius" -Skopje, Macedonia | D.V.M. | 2001 | Veterinary Medicine |
| Graduate School of Veterinary Medicine Hokkaido University, Sapporo, Japan | Ph.D | 2005 | Regenerative medicine/ Tissue engineering |
| Southwestern Medical Centre at Dallas, UTSW, Dallas, USA | Postdoctoral | 2008 | Stem cell biology/ Molecular biology |

Positions and Employment

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|------------|--|
| 2001-2002 | Junior scientist, Laboratory of Veterinary Surgery, Graduate School of Veterinary Medicine, Hokkaido University, Sapporo, Japan |
| 2002-2005 | Teaching assistant, Laboratory of Veterinary Surgery, Graduate School of Veterinary Medicine, Hokkaido University, Sapporo, Japan |
| 2002-2005 | Research associate, Graduate School of Veterinary Medicine, Hokkaido University, Sapporo, Japan |
| 2005-2007 | Postdoctoral fellow, Southwestern Medical Center at Dallas, UT, Dallas, USA |
| 2007 | Research associate, Southwestern Medical Center at Dallas, UT, Dallas, USA |
| 2008-2009 | Research associate, Medical School, University of Minnesota, Minneapolis, USA |
| 2008-2010 | Assistant professor, Faculty of Technology and Technical Science, University "St. Kliment Ohridski"- Bitola, Macedonia |
| 2008- 2010 | Vice Dean of Science Faculty of Technology and Technical Science, University "St. Kliment Ohridski"-Bitola, Macedonia |
| 2009-2010 | Assistant professor, Faculty of Veterinary medicine, University "St. Kliment Ohridski"-Bitola, Macedonia |
| 2010 | Visiting assistant professor, Medical School, University of Minnesota, Minneapolis, USA |
| 2010 | Visiting assistant professor, Faculty of Medical Sciences, University "Goce Delcev" Stip, Macedonia |
| 2010-2013 | Visiting assistant professor, Science Faculty of Technology and Technical Science, University "St. Kliment Ohridski"-Bitola, Macedonia |
| 2011-2013 | Assistant Professor, Faculty of Medical Sciences, University "Goce Delcev" Stip, Macedonia |

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| 2011 | Visiting assistant professor, Medical School, University of Minnesota, Minneapolis, US |
| 2013-present | Visiting professor, Faculty of Medical Sciences, University of Kraguevac, Kraguevac, Serbia |
| 2013-present | Associate Professor, Faculty of Medical Sciences, University "Goce Delcev" Stip, Macedonia |

Current teaching activities

Molecular biology and genetics (Pharmacy), Genetics (Dentistry), Genetics (Medicine), Immunochemistry and immunology (Pharmacy), Cell biology and genetics (Medicine)

Other Experience and professional Memberships

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|---------------|---|
| 1995-2001 | Member, International Veterinary Student Association |
| 2003-2006 | Member, Japanese Society of Veterinary Science |
| 2005-present | Editorial Board of Journal of Current Stem Cell |
| 2005-present | Member, ISSCR |
| 2005- present | Add-hock reviewer: Journal of Cell Physiology, Biomaterials, Cloning and Stem Cells, Cell Biology International, JCB, National Science Foundation, Arthritis Research & Therapy, BioMed Central, BMC Physiology, Fondo Nacional de Desarrollo Científico y Tecnológico- Chile, AJPP, TRENDS IN CELL& MOLECULAR BIOLOGY, Research in Veterinary Science, Journal of Biophysics and Structural Biology; AFM, Journal of Cell and Animal Biology, EMBO Reports |
| 2005- present | Member, FSHD Society; |
| 2006- 2008 | Member, Chair of Career Committee, PDA at UTSW Medical Center at Dallas, |
| 2006-present | Editorial Board, Current Stem Cell Research & Therapy |
| 2007-2010 | Editorial Board, Journal of Clinical Rehabilitative and Tissue Engineering |
| 2008-2010 | Publishing committee, University "St. Kliment Ohridski"-Bitola, Macedonia |
| 2008- 2010 | Member of the Senate of University "St. Kliment Ohridski"-Bitola, Macedonia |
| 2010-present | Editorial Board, Recent Patents on Regenerative Medicine |
| 2011-present | Publishing committee, University "Goce Delcev" Stip, Macedonia |
| 2011-present | Editorial Board, Current Tissue Engineering |

Honours and Awards:

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| 1996 –2001 | Scholarship for talented and excellent students from the Ministry of Education, Government of R. Macedonia; |
| 2002–2006 | Scholarship from Ministry of Education, Culture, Sport and Science, Japanese government; |
| 2008 | Postdoctoral fellowship from FSHD Society; |
| 1996–2001 | Awarded with “The best student” for the annual year of the Faculty of Veterinary Medicine- Skopje, R. Macedonia; |
| 1996–2001 | Awarded with “Top ten students” for the annual year of the National University “St Cyril and Methodius”- Skopje Macedonia; |
| 2002 | Awarded with “The best graduated student” for 2002 in the National University “St Cyril and Methodius”- Skopje Macedonia; |
| 2008 | PDA Travel Award. |

Languages: Macedonian, English, Japanese, Serbian

Selected peer-reviewed publications (in chronological order).

1. Dandapat A, **Bosnakovski D**, Hartweck LM, Arpke RW, Baltgalvis KA, Vang D, Baik J, Darabi R, Perlingeiro RC, Hamra FK, Gupta K, Lowe DA, Kyba M. 2014. Dominant lethal pathologies in male mice engineered to contain an X-linked DUX4 transgene. *Cell Rep*. 2014 Sep 11;8(5):1484-96. **(co-first author - equal contribution)**
2. Efremov Lj, Kanjevac T, Ćirić D and **Bosnakovski D**. 2013. Perspectives on regeneration of alveolar bone defects. *Ser J Exp Clin Res* 2014; 14 (4): 145-153.

3. **Bosnakovski D**, Choi SH, Strasser JM, Toso EA, Walters MA, Kyba M. 2014. High-throughput screening identifies inhibitors of DUX4-induced myoblast toxicity. *Skelet Muscle*. 2014 Feb 1;4(1):4.
4. Dandapat A, Hartweck LM, **Bosnakovski D**, Kyba M. 2013. Expression of the human FSHD-linked DUX4 gene induces neurogenesis during differentiation of murine embryonic stem cells. *Stem Cells Dev*. 2013 Apr 5. [Epub ahead of print]
5. Gjorgieva D., Zaidman N., **Bosnakovski D**. 2013. Mesenchymal stem cells for anti-cancer drug delivery. *Recent Patents on Anti-Cancer Drug Discovery*. 2013 Sep 1. [Epub ahead of print]
6. Iacovino M, **Bosnakovski D**, Fey H, Bajwa G, Mahem E, Rux D, Mitanoska A, Xu Z, Kyba M. 2011. Inducible cassette exchange: a rapid and efficient system enabling conditional gene expression in embryonic stem and primary cells. *Stem Cells*. 2011 Oct;29(10):1580-8. (**co-first author - equal contribution**)
7. **Bosnakovski D**, Islam S., Nandez R., Zaidman N., Struck M., Dandapat A., Kyba M. 2012. Maintenance of Human iPS Cells in a Feeder-free Culture System. *Biosciences, Application Note 490*, January 2012.
8. Zaidman N, **Bosnakovski D**. 2012. Advancing with Ceramic Biocomposites for Bone Graft Implants. *Recent Patents on Regenerative Medicine*, Vol 2, No 1, pp. 65-72
9. Chen SC, Frett E, Marx J, **Bosnakovski D**, Reed X, Kyba M, Kennedy BK Decreased Proliferation Kinetics of Mouse Myoblasts Overexpressing FRG1, *PLoS One*. 2011;6(5):e19780. Epub 2011 May 16
10. Darabi R, Pan W, **Bosnakovski D**, Baik J, Kyba M, Perlingeiro RC. 2011. Functional Myogenic Engraftment from Mouse iPS Cells. *Stem Cell Rev*. 2011 Apr 2. [Epub ahead of print]
11. **Darko Bosnakovski**, Randy S. Daughters, Zhaohui Xu , Jonathan M. W. Slack, and Michael Kyba. 2009. Biphasic myopathic phenotype of Mouse DUX ORF from conserved FSHD related repeat. *PLoSOne*. 2009 Sep 16;4(9):e7003.
12. Eun Ji Gang; Radbod Darabi; **Darko Bosnakovski**; Zhaohui Xu; Kristine E Kamm; Michael Kyba; Rita CR Perlingeiro. 2009. Engraftment of Mesenchymal Stem Cells into Dystrophin-Deficient Mice is not Accompanied by Functional Recovery. *Exp Cell Res*. 2009 May 19.
13. **Bosnakovski D**, Xu Z, Gang EJ, Galindo CL, Liu M, Simsek T, Garner HR, Agha-Mohammadi S, Tassin A, Coppée F, Belayew A, Perlingeiro RR, Kyba M. 2008. An isogenetic myoblast expression screen identifies DUX4-mediated FSHD-associated molecular pathologies. *EMBO J*. Oct 22;27(20):2766-79. Epub 2008 Oct 2.
14. Tang W, Zeve D, Suh JM, **Bosnakovski D**, Kyba M, Hammer RE, Tallquist MD, Graff JM. 2008. Adipocytes in White Fat Originate from Progenitor Cells Residing in the Adipose Vasculature. *Science*. Oct 24;322(5901):583-6. Epub 2008 Sep 18.
15. **Bosnakovski D**, Xu Z, Li W, Thet S, Cleaver O, Perlingeiro RC, Kyba M. 2008. Tracking skeletal muscle stem cells with a Pax7 reporter. *Stem Cells*. Sep 18. [Epub ahead of print];
16. **Bosnakovski D**, Lamb S, Simsek T, Xu Z, Belayew A, Perlingeiro R, Kyba M. 2008. DUX4c, an FSHD candidate gene, interferes with myogenic regulators and abolishes myoblast differentiation. *Exp Neurol*. 2008 Aug 6.
17. Gang EJ, **Bosnakovski D**, Simsek T, To K, Perlingeiro RC. 2008. Pax3 activation promotes the differentiation of mesenchymal stem cells toward the myogenic lineage. *Exp Cell Res*. Mar 5;
18. Gang EJ, **Bosnakovski D**, Figueiredo CA, Visser JW, and Perlingeiro RC. 2007. SSEA-4 identifies mesenchymal stem cells from bone marrow. *Blood*. 109(4):1743-51.; (**co-first author - equal contribution**)
19. **Bosnakovski D**, Mizuno M, Kim G, Takagi S, Okumura M, Fujinaga T. 2006. Chondrogenic Differentiation of Bovine Bone Marrow Mesenchymal Stem Cells (MSC) in Different Hydrogels: Influence of Collagen Type II Extracellular Matrix on MSC Chondrogenesis. *Biotechnology and Bioengineering*, 20;93(6):1152-63
20. **Bosnakovski D**, Mizuno M, Kim G, Takagi S, Okumura M, Fujinaga T. 2006. Expression Profile of Bovine Bone Marrow Mesenchymal Stem Cell Underwent Spontaneous Chondrogenic Differentiation in Pellet Cultural System. *Jpn J Vet Res*, 53(3-4):127-39
21. **Bosnakovski D**, Mizuno M, Kim G, Takagi S, Okumura M, Fujinaga T. 2005. Isolation and Multi Lineage Differentiation of Bovine Bone Marrow Mesenchymal Stem Cells. *Cell Tissue Res*, 319: 243-53.
22. **Bosnakovski D**. Chondrogenic differentiation of Bovine Bone Marrow Mesenchymal Stem Cells. 2005. PhD thesis-summary in *Jpn J Vet Res*.
23. Takagi S, Kitamura T, Hosaka Y, Ohsaki T, **Bosnakovski D**, Kadosawa T, Okumura M, Fujinaga Toru F. 2005. Molecular cloning of canine membrane-anchored inhibitor of matrix metalloproteinase, RECK. *J Vet Med Sci* 67: 385-91.
24. Takagi S, Kato Y, Asano K, Ohsaki T, **Bosnakovski D**, Hoshino Y, Okumura M, Kadosawa T, Fujinaga T. 2005. Matrix metalloproteinase inhibitor RECK expression in canine tumors. *J Vet Med Sci*. Aug;67: 761-7.
25. **Bosnakovski D**, Mizuno M, Kim G, Ishiguro T, Okumura M, Iwanaga T, Kadosawa T, Fujinaga T. 2004. Chondrogenic differentiation of bovine mesenchymal stem cells in pellet cultural system. *Exp Hematol* 32: 502-9.

26. Kim G, Okumura M, **Bosnakovski D**, Ishiguro T, Kadosawa T, Fujinaga T. 2004. Regeneration of cartilage tissue by autologous chondrocytes transplantation for cartilage defects in an experimental bovine model. *J Vet Med Sci* 66: 263-7.
27. Kim G, Okumura M, **Bosnakovski D**, Ishiguro T, Kadosawa T, Fujinaga T. 2003. Biological properties of allogenic articular chondrocytes on the surface of bovine cartilage explants in vitro. *J Vet Med A Physiol Pathol Clin Med* 50: 418-23.
28. Kim G, Okumura M, **Bosnakovski D**, Ishiguro T, Park CH, Kadosawa T, Fujinaga T. 2003. Effects of ascorbic acid on proliferation and biological properties of bovine chondrocytes in alginate beads. *Jpn J Vet Res* 51: 83-94.
29. Ishiguro T, Kadosawa T, Takagi S, Kim G, Ohsaki T, **Bosnakovski D**, Okumura M, Fujinaga T. 2003. Relationship of disease progression and plasma histamine concentrations in 11 dogs with mast cell tumors. *J Vet Intern Med* 17: 194-8.

Publications in magazines:

30. **Bosnakovski D**. “Adult Stem Cells Have Unexpected Resemblance to Embryonic Stem Cells” Scitizen, Dec. 2006;
31. Perlingeiro, Rita C.R., **Bosnakovski Darko**, et al. **Molecular 'marker' on stem cells aids research, perhaps therapies.** CenterTimes, UTSW 2006;
32. **Bosnakovski D**. “Journey toward developing a drug for FSHD” FSHWatch Research issue 2011

Invited lectures:

33. **Bosnakovski D**; A Study of Chondrogenic Differentiation of Bovine Bone Marrow Mesenchymal Stem Cells (MSCs); 18 03 2005 UTSW, Department of Developmental Biology
34. **Bosnakovski D**; *Myogenic commitment of ES/EB cells by Notch1* ; 21 04 2006 UTSW
35. **Bosnakovski D**; *FACIOSCAPULOHUMERAL MUSCULAR DYSTROPHY (FSHD)- ANIMAL MODEL & TREATMET*; 28 08 2006 UTSW
36. **Bosnakovski D**; *Molecular analyses of DUX4 and its interaction with myogenic regulators in Facioscapulohumeral Muscular Dystrophy (FSHD)*; 14 03 2007 UTSW
37. **Bosnakovski D**; *Molecular analyses of DUX4 and its interaction with myogenic regulators in Facioscapulohumeral Muscular Dystrophy (FSHD)*; 14 03 2007 UTSW
38. **Bosnakovski D**; *FSHD: A MUSCULAR DYSTROPHY WITH A STEM CELL ETIOLOGY* 20 11 2008 Seminar within Research Centre for Genetic Engineering and Biotechnology; MANU 20 11 2008
39. **Bosnakovski D**; *DUX within conserved D4Z4 array, University of Minnesota, LHI 03 04 2009*
40. **Bosnakovski D**; *Induced pluripotent stem cells (IPS)- current knowledge and prospective*; MANU 14 04 2011
41. **Bosnakovski D**; *High-throughput screening for DUX4 inhibitors; Drug search for FSHD, University of Minnesota, LHI 16 09 2011*
42. **Bosnakovski D**; *Nanotechnology in Stem Cell Research, Nanobiotechnology Workshop, JRC Ispra, 29th Nov- 1st Dec 2011*

Presentations

43. **Bosnakovski D**, Mizuno M, Kim G, Ishiguro T, Okumura M, Iwanaga T, Kadosawa T, Fujinaga T.: **Chondrogenic potential of bovine bone marrow-mesenchymal stem cells (MSC) in pellet culture system**; The 136th Japanese Society of Veterinary Science, Oct. 3-5, 2003; Aomori, Japan .
44. **Bosnakovski D**, Mizuno M, Kim G, Ishiguro T, Okumura M, Iwanaga T, Kadosawa T, Fujinaga T.: **Spontaneous chondrogenic differentiation of bovine bone marrow-mesenchymal stem cells (MSC). (oral presentation)**; The 3rd Congress of the Japanese Society for Regenerative Medicine, March 23-25, 2004; Chiba, Japan.

45. Bosnakovski.J, Mitrov.D, Naletoski .I, **Bosnakovski.D**, Lazarova.I.: **Diagnosis of brucellosis in small ruminants by milk ELISA – prevention of infection in humans**, Macedonian Congress of Preventive Medicine, Ohrid, 04-07 October, 2006.
46. **Bosnakovski.D**, Pejkovski, Z., Serafimovsk.I, Panevska,M. Bosnakovski.J.: **Quality and radioactive control of mechanically deboned meat (MOM) as a raw material in meat processing industry**, Macedonian Congress of Preventive Medicine, Ohrid, 04-07 October, 2006.
47. Bosnakovski.J, Mitrov.D, Naletoski .I, **Bosnakovski.D**, Lazarova.I.: **Brucellosis in some Balcan Countries and Diagnosing Ovine and Caprine Brucellosis trough the Serum and Milk ELISA-Test Validation**, Charles Louis Davis, DVM, Foundation, 2006 Eastern Europe Veterinary Pathology Symposium, Ohrid, 25-27 May,2006.
48. Ivan Serafimovski, **Darko Bosnakovski**, Elizabeta Dimitrievska Stpjkovc, Mitra Panevska.: **Bioaccumulation of some trace elements and Cs-137 in wild growing mushrooms collected from different regions in Macedonia**, 5-th International Conference of the Chemical Societies of the South-East European Countries, Ohrid, September 10-14,2006 .
49. Michael Kyba, Rita C. R. Perlingeiro, Alexandra Belayew, **Darko Bosnakovski**, and Mingju Liu.: **Conditional gain of function analysis points to a key role for DUX4 in FSHD pathology**; FSHD International Research Consortium Meeting. October 9, 2006, New Orleans, Louisiana.
50. **Bosnakovski Darko**, Perlingeiro, Rita C.R., Gang, Eun Ji, Figueiredo, Camila.: **PROSPECTIVE ISOLATION OF MESENCHYMAL STEM CELLS BY THE HUMAN EMBRYONIC STEM CELL MARKER SSEA4**; 4th ISSCR Annual Meeting , June 29-July 01 2006, Toronto, Canada.
51. **Darko Bosnakovski**, Shuguang Wei, Mingju Liu, Michael Roth, Rita Perlingeiro, and Michael Kyba.: **A small molecule screen identifies inhibitors of DUX4-mediated toxicity in myoblasts. (oral presentation)**; Facioscapulohumeral Muscular Dystrophy International Research Consortium 2007 , October 23, 2007; San Diego.
52. **Bosnakovski Darko**, Xu Zhaohui, Thet Suwannee, Perlingeiro Rita, Kyba, Michael .: **Prospective isolation of skeletal muscle stem cells with a Pax7 reporter**; New Directions in Biology & Disease of Skeletal Muscle, April 27- 30 2008, New Orleans.
53. **Darko Bosnakovski**, Zhaohui Xu, Eun Ji Gang, Cristi L. Galindo, Mingju Liu, Tugba Simsek, Harold R. Garner, Siamek Agha-Mohammadi, Alexandra Tassin, Frédérique Coppée, Alexandra Belayew, Rita Perlingeiro, and Michael Kyba.: **Genetic interactions between DUX4 and Pax3/Pax7 suggests a stem cell etiology for FSHD**; Facioscapulohumeral Muscular Dystrophy International Research Consortium 2007, October 23, 2007; San Diego.
54. **Bosnakovski Darko**, Xu Zhaohui, Jiang Enzi, Galindo Cristi, Liu Mingju, Simsek Tugba, Garner Harold, Agha-Mohammad Siamak, Coppée Frédérique, Belayew Alexandra, Perlingeiro Rita, Kyba Michael; **FSHD: a muscular dystrophy with a stem cell etiology. (oral presentation)**, 6th ISSCR Annual Meeting , June 11-14, 2008, Philadelphia.
55. **Darko Bosnakovski** and Michael Kyba.: **DUX4 in Cells and Mice**; Facioscapulohumeral Muscular Dystrophy International Research Consortium 2008 , November 11, 2008, Philadelphia.
56. Ramiro Nandez., **Darko Bosnakovski**, Mathew Struck, Nathan Zaidman and Michael Kyba: Generation of induced pluripotent stem cells from patient-specific FSHD myoblasts. 13th Annual Minnesota Muscle Symposium, June 9th, 2009;
57. Dandapat A, **Bosnakovski D**, Nash N, Hartweck L and Kyba M, **Molecular analysis of the role of D4Z4/DUX4 in Facioscapulohumeral Muscular Dystrophy**. LHI/SCI Symposium University of Minnesota, 2009.
58. Hartweck L, Dandapat A, **Bosnakovski D**, Zaidman N, Struck M, Nandez M, Mahen E, Kyba M. Generation of induced pluripotent stem cells from patient-specific FSHD myoblasts. **Building Muscle and blood with stem cells**, LHI/SCI Symposium, University of Minnesota, 2009.
59. Michael Kyba, **Darko Bosnakovski**, et al.; **Investigating disease mechanisms and cell therapy with pluripotent cells bearing FSHD mutations**; FSH Society Facioscapulohumeral Muscular Dystrophy [FSHD] 2009 International Research Consortium & Research Planning, November 9-10, 2009;
60. **Darko Bosnakovski**, Lynn M. Hartweck, Abhijit Dandapat, John Day, Ramiro Nandez, Radbod Darabi, Rita R. Perlingeiro, Lauren Snider, Stephen J. Tapscott, Janet Sowden, Rabi Tawil and Michael Kyba. **New cellular and animal models for FSHD**. FSH Society Facioscapulohumeral Muscular Dystrophy [FSHD] 2010 International Research Consortium & Research Planning Meetings

61. Robert Arpke, Akira Toyama, **Darko Bosnakovski**, Abhijit Damapat, Nardina Nash, Caryba alin Lonetree and Michael Kyba; **Generation of an Immune Comprised-Muscular Dystrophy Mouse Model**, 15th Annual Minnesota Muscle Symposium, May 17th, 2011;
62. Abhijit Dandapat, **Darko Bosnakovski**, Kristen A. Baltgalvis, Lynn Hartweck, Carla-Lin Lonetree, Nardina Nash, Dawn A. Lowe, and Micheal Kyba **Mouse model to understand the role of Dux4 in FSHD**, 15th Annual Minnesota Muscle Symposium, May 17th, 2011;
63. Holger Fey, Michelina Icaovino, **Darko Bosnakovski**, Elisabeth M. Mahen, and Michael Kyba **Myogenic differentiation of inducible human embryonic stem cells**, 15th Annual Minnesota Muscle Symposium, May 17th, 2011;
64. Megan M. Multhaupt, **Darko Bosnakovski**, Robert Arpke, Nardina Nash, Michael Kyba, **Characterization of DUX4c Over-Expression in vivo**, 15th Annual Minnesota Muscle Symposium, May 17th, 2011;
65. Robert Arpke, **Darko Bosnakovski**, Akira Toyama, Abhijit Dandapat, Nardina Nash, Cara-lin Lonetree and Michael Kyba, **Generation of a New Immune-Compromised Muscular Dystrophy Mouse Model: NOD/SCID ;IL2Rg-mdx4cv/Y**, 3rd Annual UMN CV Retreat. June 23 – 25th, 2011, St. John’s University, Minneasota, USA.
66. Abhijit Dandapat, **Darko Bosnakovski**, Kristen A. Baltgalvis, Lynn Hartweck, Cara-lin Lonetree, Nardina Nash, Dawn A. Lowe, and Michael Kyba, **Mouse model to understand the role of Dux4 in FSHD**. ISSCR 9th Annual Meeting, June 15-18, 2011, Toronto, Ontario, Canada;
67. **Darko Bosnakovski**, Myogenic differentiation of FSHD patient specific induced pluripotent stem cells. International Conference on Tissue Science & Engineering October 1-3, 2012 Chicago, USA
68. **Darko Bosnakovski**, Si Ho Choi, Erik Toso, Michael A. Walters, Jessica M. Strasser and Michael Kyba; Small molecules with antioxidative properties are prevalent DUX4 inhibitors within HTS library FSH Society Facioscapulohumeral Muscular Dystrophy [FSHD] ; 2012 International Research Consortium & Research Planning Meeting, November 6, 2012
69. **Darko Bosnakovski**, M. Iacovino, H. Fey, A. Mitanoska, and M. Kyba: Stem cells engendered with cassette exchange system - approach to study gene gain of function; 2nd Joint Meeting; From nano to macro biomaterials (design, processing, characterization, modeling) and applications to stem cells regenerative orthopedic and dental medicine (NAMABIO). September 4-5, 2012, Vienna, Austria
70. **Darko Bosnakovski**, Gene corrected FSHD-IPS cells, once step closer to cell therapy for Facioscapulohumeral muscular dystrophy, Personalised Medicine: Better Healthcare for the Future; 17 to 22 June 2012, Larnaca, Cyprus
71. **Darko Bosnakovski** and M. Kyba; Fibroblast cell line with inducible cassette exchange system- tool to study gain and loss of gene function; 5th International Conference “Biomaterials, Tissue Engineering & Medical Devices” BiomMedD’2012; 29 August – 1September, 2012; Constanta, Romania
72. **Darko Bosnakovski**; Isolation and characterization of muscle satellite cells from various species; RGB-Net meeting - 28-30 March 2012; Bologna , Italy.
73. **Darko Bosnakovski**, Erik Toso, Heather A. Lee, Abhijit Dandapat and Michael Kyba: Role of DUX4 and Pax3/7 interferences in Facioscapulohumeral muscular dystrophy (FSHD) pathogenesis; International Conference and Exhibition on Rheumatology and Therapeutics” (Rheumatology-2012); Aug 14–15, 2012, Chicago, USA.
74. **Darko Bosnakovski** ; Adult and Embryonic Stem Cell-from isolation to differentiation; Working Group Meeting; “NAMABIO - From nano to macro biomaterials (design, processing, characterisation, modeling) and applications to stem cells regenerative orthopaedic an dental medicine” ;18th – 19th April 2012; Malta
75. Ana Mitanoska, Michael Kyba and **Darko Bosnakovski**; Developing of inducible cell lines for study gene gain of function; COST Action CM1106, Working Group Meeting Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells, 21 – 22 February 2013, Porto, Portugal
76. **Darko Bosnakovski**; Stem cell based high-throughput screen to identify inhibitors of DUX4; COST Action CM1106, Working Group Meeting Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells, 21 – 22 February 2013, Porto, Portugal
77. **Darko Bosnakovski**; ES and IPS cells as a model for Facioscapulohumeral muscular dystrophy; RGB-Net WG3 Rabbit stem cell and their potential in creating models; Gödöllő, 26-27th March, 2013
78. Ciric, Dusica and Kanjevac, Tatjana and Popovic, Milica and Bosnakovski, Darko (2014) THE USE OF SCAFFOLDS IN DENTAL REGENERATIVE MEDICINE. In: 19th Congress of the Balkan Stomatological Society (BaSS), 24-27 Apr 2014, Belgrade, Serbia.

79. Bosnakovski, Darko (2014) iPS cells and personalized medicine. In: ScienceMIX 2014 - Stem cell therapy application into the medicine and pharmacy, 25-26 Sept 2014, Stip, Republic of Macedonia.
80. Dandapat, Abhijit and Bosnakovski, Darko and Hartweck, Lynn M. and Arpke, Robert and Baltgalvis, Kristen and Vang, Derek and Baik, June and Darabi, Radbod and Perlingeiro, Rita C. R. and Hamra, Kent and Gupta, Kapil and Lowe, Dawn and Kyba, Michael (2014) A new mouse model for FSHD. In: FSH Society Facioscapulohumeral Muscular Dystrophy [FSHD] 2014 International Research Consortium & Research Planning Meetings, San Diego Marriott Marquis & Marina. 17 Oct 2014

Participation on ongoing research projects

1. Study on antiadipogenic effects of omega n-3 polyunsaturated fatty acids (PUFAs) in vitro on adipocytes differentiated from bone marrow mesenchymal stem cells (MSCs) from rabbits, Тракиски Универзитет, Стара Загора, Бугарија
2. Дентална морфологија на хумани трајни заби: екстерна и интерна анатомија на корени и коренски канални системи – експериментална студија (Dental morphology of human permanent teeth: external and internal anatomy of roots and root canal system –an experimental study).
3. „Оксидирани протеини кај пациенти на хемодијализа – влијание на суплементацијата со витамин Ц“, финансиран од Универзитетот „Гоце Делчев“ – Штип

Participation on previous research projects

| Project title | Period | Financed by | Role in the project |
|--|-----------|--|---------------------|
| Grant FSHS-82010-01 for “Small Molecule Screen to Identify Inhibitors of DUX4-mediated Toxicity, Therapeutic Approach for FSHD.” | 2011-2013 | FSHD Society | PI |
| | | | |
| Chemical inhibitors of DUX4, therapeutic approach for FSHD | 2011-2013 | AFM | PI |
| Macedonian-Chinese bilateral grant support for development new technologies | 2010-2011 | Macedonian Ministry of Education and Science | PI |
| | | | |
| Molecular analysis of DUX4 and gene therapy for FSHD; Role: PI | 2007-2010 | MDA | PI |
| TEMPUS EAC/01/2009 158714-TEMPUS-1-2009-Es-TEMPUS-JPHES | 2010 | TEMPUS | Member |
| | | | |
| FSHS-MGBF-016, “DUX4 and Interaction with Myogenic Regulators in FSHD.” | 2008 | FSHD Society | PI |