

# Curriculum Vitae

## Ass. Prof. Darko Bosnakovski, Ph.D

**Name Surname** Darko Bosnakovski  
**Title** DVM; PhD  
**Position** Assistant professor  
Pharmacogenetics and Biotechnology  
Faculty of Medical Sciences,  
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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

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-present	Visiting assistant professor, Science Faculty of Technology and Technical Science, University "St. Kliment Ohridski"-Bitola, Macedonia
2011-present	Assistant Professor, Faculty of Medical Sciences, University "Goce Delcev" Stip, Macedonia
2011	Visiting assistant professor, Medical School, University of Minnesota, Minneapolis, USA

## 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

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:

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, 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]
2. 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]
3. 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**)
4. **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.
5. 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

6. 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
7. 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]
8. **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.
9. 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.
10. **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.
11. 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.
12. **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];
13. **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.
14. 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;
15. 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**)
16. **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
17. **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
18. **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.
19. **Bosnakovski D**. Chondrogenic differentiation of Bovine Bone Marrow Mesenchymal Stem Cells. 2005. PhD thesis-summary in *Jpn J Vet Res*.
20. 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.
21. 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.
22. **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.
23. 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.
24. 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.
25. 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.
26. 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:**

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

### Invited lectures:

1. **Bosnakovski D;** A Study of Chondrogenic Differentiation of Bovine Bone Marrow Mesenchymal Stem Cells (MSCs); 18 03 2005 UTSW, Department of Developmental Biology
2. **Bosnakovski D;** *Myogenic commitment of ES/EB cells by Notch1* ; 21 04 2006 UTSW
3. **Bosnakovski D;** *FACIOSCAPLUOHUMERAL MUSCULAR DYSTROPHY (FSHD)- ANIMAL MODEL & TREATMET*; 28 08 2006 UTSW
4. **Bosnakovski D;** *Molecular analyses of DUX4 and its interaction with myogenic regulators in Facioscapulohumeral Muscular Dystrophy (FSHD)*; 14 03 2007 UTSW
5. **Bosnakovski D;** *Molecular analyses of DUX4 and its interaction with myogenic regulators in Facioscapulohumeral Muscular Dystrophy (FSHD)*; 14 03 2007 UTSW
6. **Bosnakovski D;** *FSHD: A MUSCULAR DYSTROPHY WITH A STEM CELL ETIOLOGY 20 11 208 Seminar within Research Centre for Genetic Engineering and Biotechnology; MANU 20 11 2008*
7. **Bosnakovski D;** *DUX within conserved D4Z4 array, University of Minnesota, LHI 03 04 2009*
8. **Bosnakovski D;** *Induced pluripotent stem cells (IPS)- current knowledge and prospective; MANU 14 04 2011*
9. **Bosnakovski D;** *High-throughput screening for DUX4 inhibitors; Drug search for FSHD, University of Minnesota, LHI 16 09 2011*
10. **Bosnakovski D;** *Nanotechnology in Stem Cell Research, Nanobiotechnology Workshop, JRC Ispra, 29th Nov- 1st Dec 2011*

### Presentations

1. **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 136<sup>th</sup> Japanese Society of Veterinary Science, Oct. 3-5, 2003; Aomori, Japan .
2. **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.
3. 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.
4. **Boshnakovski.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.
5. 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.
6. 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 .
7. 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.
8. **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.
9. **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.

10. **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.
11. **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.
12. **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.
13. **Darko Bosnakovski** and Michael Kyba.: **DUX4 in Cells and Mice**; Facioscapulohumeral Muscular Dystrophy International Research Consortium 2008 , November 11, 2008, Philadelphia.
14. 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;
15. 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.
16. 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.
17. 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;
18. **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
19. 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;
20. 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;
21. 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;
22. Megan M. Multhaup, **Darko Bosnakovski**, Robert Arpke, Nardina Nash, Michael Kyba, **Characterization of DUX4c Over-Expression in vivo**, 15th Annual Minnesota Muscle Symposium, May 17th, 2011;
23. 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.
24. 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;
25. **Darko Bosnakovski**, Myogenic differentiation of FSHD patient specific induced pluripotent stem cells. International Conference on Tissue Science & Engineering October 1-3, 2012 Chicago, USA
26. **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

27. **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
28. **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
29. **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
30. **Darko Bosnakovski**; Isolation and characterization of muscle satellite cells from various species; RGB-Net meeting - 28-30 March 2012; Bologna , Italy.
31. **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.
32. **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 – 19<sup>th</sup> April 2012; Malta
33. 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
34. **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
35. **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

#### Participation on ongoing research projects as PI

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

#### Participation in international networking projects:

1. MPNS COST Action MP1005; From nano to macro biomaterials (design, processing, characterization, modeling) and applications to stem cells regenerative orthopedic and dental medicine (NAMABIO).
2. BMBS COST Action TD1101; A Collaborative European Network on Rabbit Genome Biology (RGB-Net)
3. CMST COST Action CM1106; Chemical Approaches to Targeting Drug Resistance in Cancer Stem Cells
4. BMBS COST Action TD1104; European network for development of electroporation-based technologies and treatments (EP4Bio2Med)

**Participation on completed research projects as PI**

<b>Project title</b>	<b>Period</b>	<b>Financed by</b>	<b>Role in the project</b>
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

## Greeting Directors message

Our ve-year research project entitled An international joint research on aging issues in Japan, China and Korea was put into motion in 2003 by the special grant from Ministry of Education, Culture, Science and Technology to Hosei University. We have presented our research outputs at national and international conferences, and published them in the professional journals. Furthermore, with support from Fudan University, the proceedings of our conference in Shanghai was published as the book titled Aging Problems in Northeast Asia in English and Chinese in October 2006. We will publish a book tentatively titled in Japanese Population and Development Policies of China at Crossroads from Hosei University Press in September 2007. We are also planning to publish the proceedings of our 2005 Fukuoka symposium on population aging in Japan and Korea (in English), followed by a book on smoking behavior, and another one on health checkup and lifestyle diseases.

Your continued support will be greatly appreciated.

Hosei Institute on Aging (HiA)  
Director

*Seiritsu Ogura*



## Research Brief in HiA

Hosei Institute on Aging (HiA) is conducting a joint research on aging issues in Japan, China and Korea. Each country recognizes its commonality and idiosyncrasy and disseminates research findings to the aging research community.

HiA pursues a multilateral and broad research on aging issues from seven different approaches. Each project is introduced and its significance is laid out in this page.

### HiA Research Organization [7Research Projects]

No,	Project Name		Project Leader	
1	Aging Problems in Japan	Medical Care	Seiritsu Ogura	Professor, Hosei University
2		Development, poverty and Disparities	Toru Yanagihara	Professor, Takushoku University
3		Labor Economics	Takao Komine	Professor, Hosei University
4		Macroeconomics	Kenji Miyazaki	Associate Professor, Hosei University
5		Economic Theory	Nobusumi Sagara	Professor, Hosei University
6	Aging Problems in China	Jin Du	Professor, Takushoku University	
7	Aging Problems in Korea	Kwan Koo Yun	Professor, University at Albany, State University of New York	

Our research outputs are open to general public both in Japan and in Korea and China through various channels to inform them on the many aspects of aging problems. Research achievements and its details are posted on our website.

### Symposium / Workshops / Seminars

We try to stimulate public interest on aging problems by holding of various conferences, seminars and symposiums.

### Discussion paper

Our latest research findings are published through discussion papers. You can download them from our website, too.

### Academic activities and Paper publication

Our research findings are presented at national and international conferences and the papers are published in various scholarly journals.

### Book

We work on publication of books based on our research findings and transmission of information about population aging problems.

[Recent Publications by Research Fellows]

Population and Development Policies of China at a Historical Crossroads Hosei University Press, (in Japanese) September 2007

Takao Komine, Structural Changes in Japanese Economy-Where the Japanese Model is going? , Iwanami shoten Publishers, (in Japanese) March 2006

Shigeyasu Osabe, Pathological Anatomy of Contemporary France, Yamakawa shuppansha Ltd., (in Japanese) August 2006

Seiritsu Ogura and Zhigang Yuan (Eds.) Aging Problems in Northeast Asia, The collected paper of the third International Symposium, October 2006

David A.Wise and Naohiro Yashiro, Health Care Issues in the United States and Japan, The University of Chicago Press (Chapters 1,4,6&10), November 2006

### Website

We are publishing the details of our research findings and the latest information as needed on our website.

URL, <http://www.ages.i.hosei.ac.jp/~aging/>

Hosei Institute on Aging (HiA) Website

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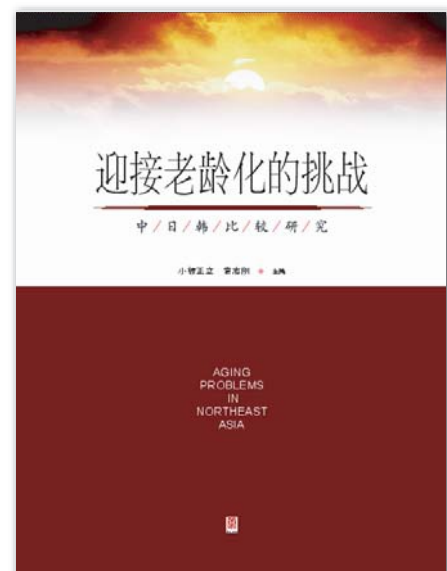
**News**

**April 27, 2006**  
The paper of Assistant Professor Akira Okamoto, the Graduate School of Economics at Okayama University, "Optimal Tax Combination in an Aging Japan," was published in the overseas article, "International Economic Journal."

**April 21, 2006**  
The paper of Assistant Professor Yukiko Abe, the Graduate School of Hokkaido University, "A Total Remuneration System and the Burden of Pension and..."

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Tel: +81-3-3264-9091 Fax: +81-3-3264-5764

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Faculty or department **Organization name**  
Faculty of Economics Department of International Economics

■Professors emeritus **Names of universities**

■Academic background **School name Course Faculty and Department End date Completion category Location Country**

The University of Tokyo		Faculty of Laws	1966/03	Graduated	Domestic		
University of Pennsylvania	Doctor course	Graduate School, Division of Economics	1974/08	Completed	Overseas	U.S.	A

■Academic degrees **Academic degree name Granted institution name Date degree was acquired**  
Ph.D. in economics University of Pennsylvania 1974/08

■Career **Career Employment period**

Administrator, Bank of Japan	1966 - 1970
Assistant Professor, Department of Economics, State University of New York at Albany	1974 - 1980
Associate Professor, Department of Economics, State University of New York at Albany	1980 - 1982/07
Assistant Professor, Faculty of Liberal Arts, Saitama University, Japan	1982 - 1990/03
Senior Economist, Japan Center for Economic Research , Japan	1990 - 1992
Chief Economist, Japan Center for Economic Research, Japan	1992 - 2000
Professor, Department of Economics, Hosei University	1993/04 - Present
Director, Hosei Institute on Aging (HiA), Graduate School, Hosei University	2002/01 - Present

■Current state of research and teaching activities **Current state of activities**

■Current research field **Field Name**  
Applied Economics

■Research keywords **Keywords**  
Health Economics

■Academic awards **Academic award name Date awarded Location**

■Alloted class **Class name**  
Social Welfare

■Textbooks and teaching materials **Title of textbook or teaching materials Creation date Summary**

■Memberships of academic societies **Academic society name Period of membership Location Official position title Period in position**

International Health Economic Association	- Present	Overseas	
Japan Economic Association	- Present	Domestic	
American Society of Health Economists	2010/04 - Present	Overseas	
Japan Health Economics Association	2006/06/10 - Present	Domestic	
	2011/04/01 - 2012/03/31		
	2006/06/10 - Present		

## Books Number of the published data : 17

No.	Title	Publication date												
1	FERTILITY AND PUBLIC POLICY	2010/12												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #d9e1f2;">Title</td> <td>FERTILITY AND PUBLIC POLICY</td> </tr> <tr> <td style="background-color: #d9e1f2;">Publisher</td> <td>The MIT Press</td> </tr> <tr> <td style="background-color: #d9e1f2;">Pages that this researcher is responsible for</td> <td>"Effects of Public Policies and the Labor Market on the Fertility of Japanese Women ; Analyses of Municipal Data"pp.81-110</td> </tr> <tr> <td style="background-color: #d9e1f2;">Joint authors</td> <td>Tamotsu Kadoda</td> </tr> <tr> <td style="background-color: #d9e1f2;">ISBN</td> <td></td> </tr> <tr> <td style="background-color: #d9e1f2;">Summary</td> <td></td> </tr> </table>	Title	FERTILITY AND PUBLIC POLICY	Publisher	The MIT Press	Pages that this researcher is responsible for	"Effects of Public Policies and the Labor Market on the Fertility of Japanese Women ; Analyses of Municipal Data"pp.81-110	Joint authors	Tamotsu Kadoda	ISBN		Summary		
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Pages that this researcher is responsible for	"Effects of Public Policies and the Labor Market on the Fertility of Japanese Women ; Analyses of Municipal Data"pp.81-110													
Joint authors	Tamotsu Kadoda													
ISBN														
Summary														
2	The Demographic Challenge: A Handbook about Japan (Florian Coulmas, Harald Conrad,Annette Schad-Seifert...	2008/03												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #d9e1f2;">Title</td> <td>The Demographic Challenge: A Handbook about Japan (Florian Coulmas, Harald Conrad,Annette Schad-Seifert and Gabriele Vogt (eds.))</td> </tr> <tr> <td style="background-color: #d9e1f2;">Publisher</td> <td>Brill Academic Pub</td> </tr> <tr> <td style="background-color: #d9e1f2;">Pages that this researcher is responsible for</td> <td>"Macroeconomic Impact and Public Finance Perspectives of the Aging Society" pp.841-859</td> </tr> <tr> <td style="background-color: #d9e1f2;">Joint authors</td> <td>Kawase, A. and S. Ogura,</td> </tr> <tr> <td style="background-color: #d9e1f2;">ISBN</td> <td></td> </tr> <tr> <td style="background-color: #d9e1f2;">Summary</td> <td></td> </tr> </table>	Title	The Demographic Challenge: A Handbook about Japan (Florian Coulmas, Harald Conrad,Annette Schad-Seifert and Gabriele Vogt (eds.))	Publisher	Brill Academic Pub	Pages that this researcher is responsible for	"Macroeconomic Impact and Public Finance Perspectives of the Aging Society" pp.841-859	Joint authors	Kawase, A. and S. Ogura,	ISBN		Summary		
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Pages that this researcher is responsible for	"Macroeconomic Impact and Public Finance Perspectives of the Aging Society" pp.841-859													
Joint authors	Kawase, A. and S. Ogura,													
ISBN														
Summary														
3	Health Care Issues in the United States and Japan	2006/11												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #d9e1f2;">Title</td> <td>Health Care Issues in the United States and Japan</td> </tr> <tr> <td style="background-color: #d9e1f2;">Publisher</td> <td>The University of Chicago Press</td> </tr> <tr> <td style="background-color: #d9e1f2;">Pages that this researcher is responsible for</td> <td>“ Removing the Instability and Inequity in Japanese Health Insurance System,”,pp.83-112</td> </tr> <tr> <td style="background-color: #d9e1f2;">Joint authors</td> <td>Ogura,S., Kadota,T.&amp; Kawamura,M.</td> </tr> <tr> <td style="background-color: #d9e1f2;">ISBN</td> <td></td> </tr> <tr> <td style="background-color: #d9e1f2;">Summary</td> <td></td> </tr> </table>	Title	Health Care Issues in the United States and Japan	Publisher	The University of Chicago Press	Pages that this researcher is responsible for	“ Removing the Instability and Inequity in Japanese Health Insurance System,”,pp.83-112	Joint authors	Ogura,S., Kadota,T.& Kawamura,M.	ISBN		Summary		
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Joint authors	Ogura,S., Suzuki,W., Kawamura,M.& Kadota,T.													
ISBN														
Summary														
5	迎接老齡化的挑戰—Aging Problems in Northeast Asia	2006/11												

Title	迎接老齡化的挑戰—Aging Problems in Northeast Asia
Publisher	Shanghai People's Publishing House(Shanghai Century Publishing Group:上海人民出版社)
Pages that this researcher is responsible for	551
Joint authors	S.Ogura and Yuan, Zhigang
ISBN	
Summary	

6 迎接老齡化的挑戰—Aging Problems in Northeast Asia(Ogura, S. & S. Yuan, eds.) 2006/11

Title	迎接老齡化的挑戰—Aging Problems in Northeast Asia(Ogura, S. & S. Yuan, eds.)
Publisher	Shanghai People's Publishing House(Shanghai Century Publishing Group:上海人民出版社)
Pages that this researcher is responsible for	“Long-Term Care Insurance of Japan after Four Years: How It Has Changed the Way the Japanese Take Care of Their Elderly,”
Joint authors	Ogura, S. & S. Yuan, eds.
ISBN	
Summary	

7 Population Aging in Korea: Economic Impacts and Policy Issues(K.Choi eds.) 2006/03

Title	Population Aging in Korea: Economic Impacts and Policy Issues(K.Choi eds.)
Publisher	Korea Development Institute
Pages that this researcher is responsible for	“Population Aging and the Labor Market: The Japanese Experience in the Last Quarter of the 20th Century,” in K.Choi ed,pp.213-229
Joint authors	Ogura,S.& Senoh, W.
ISBN	
Summary	

8 Labor Markets and Firm Benefit Policies in Japan and the United States 2003/10

Title	Labor Markets and Firm Benefit Policies in Japan and the United States
Publisher	The University of Chicago Press
Pages that this researcher is responsible for	409
Joint authors	Ogura,S., Tachibanaki,T.& Wise,D.A.,eds.
ISBN	
Summary	

9 Labor Markets and Firm Benefit Policies in Japan and the United States(Ogura,S., Tachibanaki,T.& Wise,D.A.,eds) 2003/10

Title	Labor Markets and Firm Benefit Policies in Japan and the United States(Ogura,S., Tachibanaki,T.& Wise,D.A.,eds)
Publisher	The University of Chicago Press
Pages that this researcher is	“Why Do the Japanese Spend So Much on Drugs?” .pp.229-266

responsible for	
Joint authors	Ogura,S.& Hagino,T.
ISBN	
Summary	

10 The Economics of Health Care in Asia-Pacific Countries(Academia Studies in Asian Economies) 2002/05

Title	The Economics of Health Care in Asia-Pacific Countries(Academia Studies in Asian Economies)
Publisher	Edward Elgar Pub Published
Pages that this researcher is responsible for	"Hospital services under a national health insurance system: transition from a free-for-service to a capitation system" pp.213-240
Joint authors	Yamada,T. & Yamada,T, Ogura, S. & Suzuki,R.
ISBN	
Summary	

11 Aging Issues in the U.S. and Japan 2001/01

Title	Aging Issues in the U.S. and Japan
Publisher	University of Chicago Press
Pages that this researcher is responsible for	410
Joint authors	Ogura, S., T.Tachibanaki & D.A.Wise,eds.
ISBN	
Summary	

12 Aging Issues in the U.S. and Japan(Ogura, S., T.Tachibanaki & D.A.Wise,eds.) 2001/01

Title	Aging Issues in the U.S. and Japan(Ogura, S., T.Tachibanaki & D.A.Wise,eds.)
Publisher	The University of Chicago Press
Pages that this researcher is responsible for	"Concentration and Persistence of Health Care Costs for the Aged"pp.187-222
Joint authors	Ogura,S.&Suzuki,R.
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Summary	

13 Aging Issues in the U.S. and Japan(Ogura, S., T.Tachibanaki & D.A.Wise,eds.) 2001/01

Title	Aging Issues in the U.S. and Japan(Ogura, S., T.Tachibanaki & D.A.Wise,eds.)
Publisher	The University of Chicago Press
Pages that this researcher is responsible for	"What Went Wrong with the 1994 Official Population Projection of Japan?"pp.361-402
Joint authors	
ISBN	
Summary	

14 Industrializing Knowledge: University-Industry Linkages in Japan and the United States 1999/10

Title	Industrializing Knowledge: University-Industry Linkages in Japan and the United States
Publisher	MIT Press
Pages that this researcher is responsible for	“Public Policies for Japanese Universities and the Job Market for Engineers”pp.547-576
Joint authors	Ogura,S.&Kotake,H.
ISBN	
Summary	

15 The Economic Effects of Aging in the United States and Japan

1997/03

Title	The Economic Effects of Aging in the United States and Japan
Publisher	University of Chicago Press
Pages that this researcher is responsible for	“Projection of Japanese Public Pension Costs in the First Half of the Twenty-First Century and the Effects of Three Possible Reforms”pp.11-37
Joint authors	
ISBN	
Summary	

16 Aging in the United States and Japan: economic trends

1994/09

Title	Aging in the United States and Japan: economic trends
Publisher	The University of Chicago Press
Pages that this researcher is responsible for	“The Cost of Aging: Public Finance Perspectives for Japan”pp.139-173
Joint authors	
ISBN	
Summary	

17 Industrial Policy of Japan

1988/04

Title	Industrial Policy of Japan
Publisher	San Diego Academic Press
Pages that this researcher is responsible for	“The Tax System and the Fiscal Investment and Loan Program,”pp.121-153
Joint authors	Ogura,S.&Yoshino,N.
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Summary	

## Working Papers and Chapters

- September 2006 [\*\*Removing the Instability and Inequity in the Japanese Health Insurance System\*\*](#)  
with [Tamotsu Kadoda](#), [Makoto Kawamura](#)  
in [Health Care Issues in the United States and Japan](#), David A. Wise and Naohiro Yashiro, editors
- [\*\*Conjoint Analysis to Estimate the Demand for Nicotine Replacement Therapy in Japan\*\*](#)  
with [Wataru Suzuki](#), [Makoto Kawamura](#), [Tamotsu Kadoda](#)  
in [Health Care Issues in the United States and Japan](#), David A. Wise and Naohiro Yashiro, editors
- January 2003 [\*\*Front matter, Labor Markets and Firm Benefit Policies in Japan and the United States\*\*](#)  
with [Toshiaki Tachibanaki](#), [David A. Wise](#)  
in [Labor Markets and Firm Benefit Policies in Japan and the United States](#), Seiritsu Ogura, Toshiaki Tachibanaki and David A. Wise, editors
- [\*\*Why Do the Japanese Spend So Much on Drugs?\*\*](#)  
with [Takehiko Hagino](#)  
in [Labor Markets and Firm Benefit Policies in Japan and the United States](#), Seiritsu Ogura, Toshiaki Tachibanaki and David A. Wise, editors
- January 2001 [\*\*Front matter, Aging Issues in the United States and Japan\*\*](#)  
with [Toshiaki Tachibanaki](#), [David A. Wise](#)  
in [Aging Issues in the United States and Japan](#), Seiritsu Ogura, Toshiaki Tachibanaki and David A. Wise, editors
- [\*\*What Went Wrong with the 1991–92 Official Population Projection of Japan?\*\*](#)  
in [Aging Issues in the United States and Japan](#), Seiritsu Ogura, Toshiaki Tachibanaki and David A. Wise, editors
- [\*\*Concentration and Persistence of Health Care Costs for the Aged\*\*](#)  
with [Reiko Suzuki](#)  
in [Aging Issues in the United States and Japan](#), Seiritsu Ogura, Toshiaki Tachibanaki and David A. Wise, editors
- January 1996 [\*\*Projection of Japanese Public Pension Costs in the First Half of the Twenty-First Century and the Effects of Three Possible Reforms\*\*](#)  
in [The Economic Effects of Aging in the United States and Japan](#), Michael D. Hurd and Naohiro Yashiro, editors
- January 1994 [\*\*The Cost of Aging: Public Finance Perspectives for Japan\*\*](#)  
in [Aging in the United States and Japan: Economic Trends](#), Yukio Noguchi and David A. Wise, eds.