

CURRICULUM VITAE

Boris B. Boyanovsky, MD, PhD

GENERAL INFORMATION

ADDRESS

Work

University of Kentucky
Department of Internal Medicine
900 S Limestone Street, Room 533
Lexington, Kentucky 40536-0200
Phone: (859) 323-4933 x 81383
e-mail: bbboya2@uky.edu

Home

1025 Gainesway Drive
Lexington, KY 40517
Phone: (859) 421-1734

EDUCATION

Institution	Dates	Degree	Subject
University of Sofia, Bulgaria	1990-1996	M.D.	General Medicine
University of Sofia, Bulgaria	1997-2000	Ph.D.	Clinical Immunology

PROFESSIONAL POSITIONS

University of Kentucky, Dept. of Internal Medicine	2007-present	Research Assistant Professor
University of Kentucky, Dept. of Internal Medicine	2005-2007	Research Associate
University of Kentucky, Dept. of Internal Medicine	2003-2005	Postdoctoral Scholar
University of Kentucky, Dept. of Physiology	2000-2003	Postdoctoral Scholar

AWARDS

1998, 1999 and 2000 - European Association of Allergy and Clinical Immunology
– young investigator travel awards

2003 - American Heart Association Postdoctoral Fellowship (declined)

2003 - 12th South Eastern Lipid Research Conference - award for scientific presentation

2004 - Gill Heart Institute Cardiovascular Research Day - award for scientific presentation

2005 - American Heart Association Postdoctoral Fellowship

2005 - 6th Arteriosclerosis Thrombosis and Vascular Biology Meeting - Young Investigator Travel Award

PROFESSIONAL MEMBERSHIPS

1996-present Union of the Bulgarian physicians

1997-2006 European Association of Allergy and Clinical Immunology

2005 -present American Heart Association

RESEARCH SUPPORT

July 2005- June 2007 AHA Postdoctoral Fellowship #0525425B - **PI:** Boris Boyanovsky

SPEAKING ENGAGEMENTS

National

2002 - 37th Southeastern Lipid Conference, Cashiers, NC: "Uptake and metabolism of low density lipoproteins with elevated ceramide content by human microvascular endothelial cells"

2004 - 13th Southeastern Lipid Research Conference, Callaway Gardens, GA
"Mechanisms Involved in the Uptake of sPLA₂ Group V Modified Low Density Lipoproteins by Macrophages"

International

1998 - III Balkan Congress of Immunology: "Antiphospholipid Syndrome: Pathogenic role and diagnostic significance of Antiphospholipid antibodies, Protein C and Factor V Leiden"

ABSTRACTS

2002 – 5th Gill Heart Institute Cardiovascular Research Day: "Uptake and metabolism of low density lipoproteins with elevated ceramide content by human microvascular endothelial cells"

2003 – 12th South Eastern Lipid Research Conference, Callaway Garden, GA - "Group V sPLA₂ hydrolysis of LDL leads to aggregation and promote foam cell formation in mouse peritoneal macrophages"

2003 – 6th Gill Heart Institute Cardiovascular Research Day: "Hydrolysis of LDL by Group V sPLA₂ results in particle aggregation and promotes foam cell formation in mouse peritoneal macrophages".

2004 – 7th Gill Heart Institute Cardiovascular Research Day: "Mechanisms Involved in the Uptake of Group V sPLA₂ Modified Low Density Lipoproteins by Macrophages"

2005 – 6th Arteriosclerosis Thrombosis and Vascular Biology Meeting, Washington, DC: "Cellular Proteoglycans Mediate Uptake of Group V sPLA₂ Modified Low Density Lipoproteins by Macrophages"

2005 – 8th Gill Heart Institute Cardiovascular Research Day: Group V Secretory Phospholipase A₂-modified Low Density Lipoprotein Promotes Foam Cell Formation by a SR-A and CD36-independent Process That Involves Cellular Proteoglycans

2006 - 7th Arteriosclerosis Thrombosis and Vascular Biology Meeting, Denver, CO: Syndecan-3 and 4 participate in macrophage uptake of Low Density Lipoproteins hydrolyzed by Group V secretory phospholipase A₂

2006 - 15th South Eastern Lipid Research Conference: "Cellular Syndecans Participate in Macrophage Uptake of Low Density Lipoproteins Hydrolyzed by Secretory Phospholipase A₂ Group V"

2006 – 9th Cardiovascular Research Day: "Cellular Syndecans Participate in Macrophage Uptake of Low Density Lipoproteins Hydrolyzed by Group V Secretory Phospholipase A₂"

2008 - 10th Cardiovascular Research Day: "Studies in apoE^{-/-} and LDLR^{-/-} mice reveal multiple roles for GV sPLA₂ in atherosclerosis".

2008 - 15th South Eastern Lipid Research Conference: "Studies in apoE^{-/-} and LDLR^{-/-} mice reveal multiple roles for GV sPLA₂ in atherosclerosis".

PEER REVIEWED PUBLICATIONS

1. **Boris B. Boyanovsky**, Melissa Zack, and Nancy R. Webb. The capacity of Group V sPLA₂ to increase atherogenicity of apoE^{-/-} and LDLR^{-/-} mouse LDL *in vitro* predicts its atherogenic role *in vivo*. ***Arterioscler Thromb Vasc Biol*** 2009 Apr. 29(4):532-538.
2. Gergana M. Deevska, Krassimira A. Rozenova, Natalia V. Giltiy, Melissa A. Chambers, James White, **Boris B. Boyanovsky**, Jia Wei, Alan Daugherty, Eric J. Smart, Michael B. Reid, Alfred H. Merrill, Jr., and Mariana Nikolova-Karakashian. Acid sphingomyelinase deficiency prevents diet-induced hepatic triacylglycerol accumulation and hyperglycemia in mice. ***J. Biol. Chem.*** 2008 Dec 11 [Epub].
3. **Boris B. Boyanovsky**, Preetha Shridas, Michael Simons, Deneys R. van der Westhuyzen, and Nancy R. Webb. Syndecan-4 Mediates Macrophage Uptake of Group V Secretory Phospholipase A2-Modified Low Density Lipoprotein. ***Journal of Lipid Research***, 2008 Dec 3 [Epub].
4. **Boris B. Boyanovsky** and Nancy R. Webb. Biology of Secretory Phospholipase A₂. Review. ***Cardiovasc Drugs Ther.*** 2008 Oct 14.
5. Bing Sun, ***Boris B. Boyanovsky**, Margery A. Connelly, Preetha Shridas, Deneys R. van der Westhuyzen, Nancy R. Webb. Distinct Mechanisms for oxLDL Uptake and Cellular Trafficking by Class B Scavenger Receptors CD36 and SR-BI. ***Journal of Lipid Research***. 2007 Sep 19 *BB and BS contributed equally.
6. Meredith A. Bostrom, **Boris B. Boyanovsky**, Craig T. Jordan, Marilyn P. Wadsworth, Douglas J. Taatjes, Frederick C. de Beer, and Nancy R. Webb. Group V secretory phospholipase A2 promotes atherosclerosis: Evidence from genetically altered mice. ***Arterioscler Thromb Vasc Biol*** 2007 Mar; 27(3):600-6.
7. Sathishkumar S, **Boyanovsky B**, Karakashian AA, Rozenova K, Giltiy NV, Kudrimoti M, Mohiuddin M, Ahmed MM, Nikolova-Karakashian M. Elevated Sphingomyelinase Activity and Ceramide Concentration in Serum of Patients Undergoing High Dose Spatially Fractionated Radiation Treatment: Implications for Endothelial Apoptosis. ***Cancer Biol Ther.*** 2005 Sep 13;4(9)
8. **Boyanovsky BB**, van der Westhuyzen DR, Webb NR. Group V sPLA₂-modified LDL promotes foam cell formation by a SR-A and CD36 independent process that involves cellular proteoglycans. ***J Biol Chem.*** 2005 Sep 23;280(38):32746-52.

9. Wooton-Kee CR, **Boyanovsky BB**, Nasser MS, de Villiers WJ, Webb NR. Group V sPLA₂ hydrolysis of low-density lipoprotein results in spontaneous particle aggregation and promotes macrophage foam cell formation. *Arterioscler Thromb Vasc Biol.* 2004 Apr;24(4):762-7.
10. Lightle S, Tosheva R, Lee A, Queen-Baker J, **Boyanovsky B**, Shedlofsky S, Nikolova-Karakashian M. Elevation of ceramide in serum lipoproteins during acute phase response in humans and mice: role of serine-palmitoyl transferase. *Arch Biochem Biophys.* 2003 Nov 15;419(2):120-8.
11. **Boyanovsky B**, Karakashian A, King K, Giltiy N, Nikolova-Karakashian M. Uptake and metabolism of low density lipoproteins with elevated ceramide content by human microvascular endothelial cells: implications for the regulation of apoptosis. *J Biol Chem.* 2003 Jul 18;278(29):26992-9. Epub 2003 Apr 29.
12. **Boyanovsky B**, Russeva M, Ganey V, Penev M, Baleva M. Prevalence of factor V Leiden and prothrombin 20210 A variant in Bulgarian patients with pulmonary thromboembolism and deep venous thrombosis. *Blood Coagul Fibrinolysis.* 2001 Dec;12(8):639-42.
13. **Boianovski B**, Ruseva M, Ganey V, Karag'ozova Zh, Mladenova A, Nikolov K, Baleva M, Dimitrova V, Chernev T, Ivanov S. Frequency of anti-phospholipid antibodies and Leiden mutation of hemostasis Factor V in unexplained recurrent fetal and embryo loss. *Akush Ginekol* (Sofia). 2001;40(3):11-14. Bulgarian.
14. **B. Boyanovsky**, M Russeva, G Dobрева, V Ganey, K Nikolov, V Pejcheva, M Baleva. "Protein C Activity in Patients with Systemic Lupus Erythematosus" *J. Clin. Rheumatol.* 2000; 6 (5): 1- 6.
15. Baleva M, **Boyanovsky B**, Nikolov K, Kolarov Z, Nikolova M. High levels of IgA anticardiolipin antibodies in patients with systemic lupus erythematosus, Henoch-Schoenlein purpura, Sneddon's syndrome and recurrent pregnancy loss. *Thromb Haemost.* 1999 Dec;82(6):1774-5.

LANGUAGES: Bulgarian and English – fluently.