**MARINA TUZOVA, M.D., Ph.D., M.P.H.**

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**EDUCATION**

**2010 - M.P.H. in Health Policy and Management,** Boston University School of Public Health, Boston, MA.

**1995 - Ph.D. in Allergy and Clinical Immunology,** Institute of Clinical Immunology Russian Academy of Medical Sciences, Novosibirsk, Russian Federation.

**1984- M.D. in Internal Medicine,** Altai State Medical University, Barnaul, Russian Federation.

**RESEARCH EXPERIENCE**

**2011 – present time – Research Assistant Professor of Medicine -** Pulmonary Center, Boston University School of Medicine, Boston, MA.

Urban, environmental and childhood asthma prospective cohort study; dual role of IL-16 in cutaneous T-cell lymphoma (translational research); vitamin D in cord blood and further asthma development (birth cohort).

**2005 - 2011 - Senior Postdoctoral Research Associate**, Pulmonary Center, Boston University School of Medicine, Boston, MA.

Urban, environmental and childhood asthma prospective cohort study; dual role of IL-16 in cutaneous T-cell lymphoma (translational research); vitamin D in cord blood and further asthma development (birth cohort).

**2008 - Intern**, Boston Medical Center, Boston, MA.

Data and project management in epidemiological studies (management in clinical trials, IRB approvals, protocol amendments, data tracking system, participant retention).

**2007 - Consultant**, Excelimmune, Inc., Woburn, MA.

Development of an anti-staphylococcal antibody.

**2009 - Trainee as a Quality Control Clinician**,Concordant Rater Systems, Inc., Boston, MA.

Clinical trials in patients with depression.

**2004-2005 - Postdoctoral Research Associate**, Division of Infectious Diseases, Cummings School of Veterinary Medicine at Tufts University, Grafton, MA.

Study of *Staphylococcus aureus* quorum sensing.

**2002-2004 - Postdoctoral Research Associate**, Albert Einstein College of Medicine, New York, NY.

Mouse model of systemic lupus erythematosus (SLE).

**2001-2002 - Research Scholar**, University of Kentucky, Lexington, KY.

Study of the Human Immunodeficiency Virus (HIV)-1 TAT protein.

**1995-2001 - Senior Scientist**, Institute of Clinical Immunology, Russian Academy of Medical Sciences, Novosibirsk, Russian Federation.

Endogenous retroviruses and immunosuppressive properties of Ebola virus.

**1990-1995 - PhD Student**, Institute of Clinical Immunology, Russian Academy of Medical Sciences, Novosibirsk, Russian Federation.

New indolile-3-acetate derivatives and germanium-organic compounds as immunomodulators in a mouse model of SLE.

**1988-1990 - Fellow** in Allergy and Clinical Immunology, Institute of Clinical Immunology, Russian Academy of Medical Sciences, Novosibirsk, Russian Federation.

**AWARDS:**

2011 – Boston University Evans Research Days, Department of Medicine Award Winner in Laboratory Based Research.

**TEACHING EXPERIENCE**

**Present - Teaching Faculty**, Summer II (4 credits), GMS BT 290 B1, Disease and Public Health, Boston University School of Medicine & Metropolitan College, Boston, MA.

**Present - Faculty field supervisor** for two undergraduate students, Boston University School of Medicine, Boston, MA.

**CERTIFICATIONS**

**2011, 2009, 2007** - NIH Certificate in Human Subjects Research.

**2010** - NIH Certificate in Good Clinical Practice (GCP).

**RESEARCH ARTICLES**

McLoughlin RM, Calatroni A, Visness CM, Wallace PK, Cruikshank WW, **Tuzova M**, Ly NP, Ruiz-Perez B, Kattan M, Bloomberg GR, Lederman H, Gern JE, Gold DR. [Longitudinal relationship of early life immunomodulatory T cell phenotype and function to development of allergic sensitization in an urban cohort.](http://www.ncbi.nlm.nih.gov/pubmed/22092655) Clin Exp Allergy. 2011 Nov 9. doi: 10.1111/j.1365-2222.2011.03882.x. [Epub ahead of print].

Curiel-Lewandrowski C, Yamasaki H, Si CP, Jin X, Zhang Y, Richmond J, **Tuzova M**, Wilson K, Sullivan B, Jones D, Ryzhenko N, Little F, Kupper TS, Center DM, Cruikshank WW. [Loss of nuclear pro-IL-16 facilitates cell cycle progression in human cutaneous T cell lymphoma.](http://www.ncbi.nlm.nih.gov/pubmed/22080865) J Clin Invest. 2011 Nov 14. pii: 41769. doi: 10.1172/JCI41769. [Epub ahead of print]

Granada M, Wilk JB, **Tuzova M**, Strachan DP, Weidinger S, Albrecht E, Gieger C, Heinrich J, Himes BE, Hunninghake GM, Celedón JC, Weiss ST, Cruikshank WW, Farrer LA, Center DM, O'Connor GT. [A genome-wide association study of plasma total IgE concentrations in the Framingham Heart Study.](http://www.ncbi.nlm.nih.gov/pubmed/22075330) J Allergy Clin Immunol. 2011 Nov 8. [Epub ahead of print]

Richmond J\*, **Tuzova M\*,** Parks A, Adams N, Martin E, Tawa M, Morrison L, Chaney K, Kupper TS, Curiel-Lewandrowski C, CruikshankW. Interleukin-16 as a marker of Sézary syndrome onset and stage. J Clin Immunol. 2011;31:39-50. (\*\*equal contributions).

Croq F, Vizioli J, **Tuzova M**, Tahtouh M, Sautiere PE, Van Camp C, Salzet M, Cruikshank W, Pestel J, Lefebvre C. A homologous form of a human interleukin 16 is implicated in microglia recruitment following nervous system injury in leech *Hirudo medicinalis*. Glia 2010;58:1649-62.

Zhang Y, Tuzova M, Xiao ZX, Cruikshank WW, Center DM. Pro-IL-16 recruits histonedeacetylase 3 to the Skp2 core promoter through interaction with transcription factor GABP.J Immunol 2008;180:402-8.

Anguita-Alonso P, Giacometti A, Cirioni O, Ghiselli R, Orlando F, Saba V, Scalise G, Sevo M, **Tuzova M,** Patel R, Balaban N. RNAIII-Inhibiting-peptide-loaded polymethylmethacrylate prevents in vivo *Staphylococcus aureus* biofilm formation. Antimicrob Agents Chemother 2007;51:2594-6.

[Zhao Z, Weinstein E, **Tuzova M**, Davidson A, Mundel P, Marambio P, Putterman C.](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Retrieve&dopt=AbstractPlus&list_uids=15693007&query_hl=2&itool=pubmed_docsum) Cross-reactivity of human lupus anti-DNA antibodies with alpha-actinin and nephritogenic potential. Arthritis Rheum 2005;52:522-30.

Cui Z, Patel J, **Tuzova M**, P Ray, Phillips R, Woodward JG, Nath A, and Mumper RJ. Strong T-cell type-1 immune responses to HIV-1 Tat (1-72) protein-coated nanoparticles. Vaccine 2004;22:2631-40.

Nath A, Hall E, **Tuzova M,** Dobbs M, Jons M, Anderson C, Woodward J, Guo Z, Fu W, Kryscio R, Wekstein D, Smith C, Markesbery WR, Mattson MP. Autoantibodies to amyloid-beta peptide (Abeta) are increased in Alzheimer’s disease patients and Abeta antibodies can enhance Abeta neurotoxicity: implications for disease pathogenesis and vaccine development. Neuromolecular Med. 2003; 3: 29-39.

**Tuzova M**, Gaidul KV, Chepurnov AA. In vitro synthesis of immunoglobulins caused by an inactivated Ebola virus. VoprVirusol 2003;48: 21-24.

**Tuzova M**, Sukhenko TG, Chepurnov AA. Effect of Ebola virus antigenon proliferative response of human lymphocytes in vitro: imbalance in production of tumor necrosis factor alpha and interleukin-1. VoprVirusol 2002;47:29-31.

Kolesnikova OP, Kudaeva OT, Sukhenko TG, **Tuzova M,**Saphronova IV. The correction of combined immuno-and hemopoiesis disorders induced by graft-versus-host reaction. RussJ Immunol 2001;6:177-86.

Goldina IA, **Tuzova M,** Smagin AA, Morozov VV, Lubarsky MS, Gaidul KV, Kozlov VA. Proinflammatory cytokines mRNA expression in dependence of suppressive epitope retroviral transmembrane p15E peptide activation at multiple sclerosis patients. Adv Exp Med Biol2001;500:621-4.

Chepurnov AA, **Tuzova M,** Ternovoj VA, Chernukhin IV. Suppressive property of Ebola virus on T-cell proliferation in vitro is provided by GP-125 kD viral protein. ImmunolLett 1999;257-61.

**Tuzova M,** Khaldoyanidi SK,Gaidul KV, Kozlov VA, Chepurnov AA. The effect of inactivated Ebola virus on immune and hemopoieticcel activity. Russ J Immunol 1998;3:263-5.

Chernukhin IV, **Tuzova M,** Degtiareva MM, Gaidul KV, Kozlov VA. Production of peptide of retroviral origin in sera of patients with chronic myeloid leukemia at acute phase. Russ J Immunol 1998;3:147-53.

Shirinski VS, Kolesnikova OP, Kudaeva OT, Semenova NV, Zhuk EA, Mirskova AN, **Tuzova M**, Sukhenko TG, Voronkov MG, Kozlov VA. Eksp Klin Farmakol 1993 56:42-5.

**REVIEWS**

## Tuzova M. Health belief model: losing a battle against obesity. Dec 17, 2009 (online publication). <http://challengingdogma-fall2009.blogspot.com/search/label/Blue>

**Tuzova M,** Goldina IA, Smagin AA, Lubarsky MS, Gaidul KV, Kozlov VA. Multiple sclerosis: some problems of etiology and pathogenesis. Int J of Immunorehabilitation 2000:2:122-7.

**CONFERENCES**

**M.Tuzova,** J.Richmond, D.Wolpowitz, C.Curiel-Lewandrowski, L.Morrison, N.Adams, K.Chaney, T.Kupper, W.Cruikshank. Synergistic role of TSLP and IL-16 in mycosis fungoides pathology. T Cell Lymphoma Forum, San Francisco, CA, Jan 26-28, 2012. P 79, poster presentation.

**M.Tuzova**, C.Curiel, C. Ping-Si, J.Richmond, N.Ryzhenko, F.Little, T.Kupper, D.Center, W.Cruikshank. Nuclear Pro-IL-16 regulates hyperproliferation in CTCL. Boston University Evans Department of Medicine Research Days, November 3-4, 2011, p.100, Abstract/Poster presentation

**Tuzova M,** Richmond J, Cruikshank W. Involvement of dendritic cell-derived caspase-3 and HNF-1 in Mycosis fungoides pathogenesis through the interaction with IL-16. T-cell Lymphoma Forum, San Francisco, CA, Jan 27-29, 2011.

**Tuzova M,** Jillian Richmond, Ashley Parks, Natalie Adams, Elizabeth Martin, Marianne Tawa, Lynne Morrison, Keri Chaney, Thomas Kupper, Clara Curiel-Lewandrowski, William Cruikshank. Interleukin-16 as a marker of Sézary syndrome onset and stage. 5th International Symposium on the Biology and Immunology of Cutaneous Lymphomas, Berlin, Germany, Jan 13-15, 2011. Oral presentation.

**Tuzova M.** Fall Practicum Poster Session, December 13, 2008. Boston Medical Center, Pulmonary Epidemiology Group. Project and data management in epidemiological studies.

**Tuzova M,** Sukhenko TG, Chepurnova TS. The in vitro model of Ebola infection: discrepancy between TNF-alpha and IL-1 production. XIIth InternationalCongress of Virology, Paris, July 27-Aug 2, 2002.

**Tuzova M,** Sukhenko TG, Chepurnova TS. Influence of Ebola virus antigen on proliferation of human lymphocytes in vitro: contradictions in production of TNF-alpha and IL-1. XIIth International Congress of Virology, Paris, July 27-Aug 2, 2002.

**Tuzova M**, Nath A, Woodward J. HIV-1 Tat protein induces polyclonal stimulation of human T-cells. AIDS Vaccine 2001, Philadelphia, PA, Sep 5-8, 2001.

**Tuzova M,** Goldina IA, Gaidul KV, Kozlov VA. New therapeutic pathways to multiple sclerosis therapy. 5th International Symposium of the Immunotherapy of the Rheumatic Diseases, Limassol, Cyprus, May 26-30, 2000.

Goldina IA, **Tuzova M,** Gaidul KV, Smagin AA,Kozlov VA.Prospects of use of Reaferon-stimulated swine spleen cells in correction of cytokine disoders in multiple sclerosis. 5th International Symposium of the Immunotherapy of the Rheumatic Diseases, Limassol, Cyprus, May 26-30, 2000.

**Tuzova M,** Goldina IA, Smagin AA, Lubarsky MS, Gaidul KV, Kozlov VA. Effect of xenospleen supernatant cocultivated with orthophen on T-cell proliferation in vitro. John Humphrey Course in Self-Tolerance and Self-Recognition, Sinaia, Romania, May 15-19, 2000.

Smagin AA, Goldina IA, **Tuzova M,** Morozov VV, Lubarsky MS. Native cytokine complex in relapsing-remitted multiple sclerosis therapy. John Humphrey Course in Self-Tolerance and Self-Recognition, Sinaia, Romania,May 15-19, 2000.

Goldina IA, **Tuzova M**, Gaidul KV, Kozlov VA. New approaches to multiple sclerosis therapy. 14th Annual Conference on Clinical Immunology, Washington, DC, April 15-17, 1999.

Goldina IA, **Tuzova M**, Smagin AA, Gaidul KV, KozlovVA. New approaches to multiple sclerosis therapy: pentoxifylline effects on cytokine production of swine spleen. Scand J Immunol1999;50:119.

Chernukhin IV, **Tuzova M**, Gaidul KV, Tuzov MY, Chepurnov AA. Ebola infection in guinea pigs leads to generation of autoantibodies against host endovascular cells. 2nd International Congress on Autoimmunity, Tel Aviv, Israel, March 7-12, 1999.