Prof. Valentina I. Larionova, MD, PhD, DSci

President of Eugene I. Schwartz association of specialists in the fields of molecular medicine, medical and laboratory genetics

Education
2005 Doctor of Science thesis "Clinical genetic analysis of predisposition to atherosclerosis in children and adolescents"
1997 PhD thesis "Blood lipids and DNA polymorphism of apoproteine genes in St. Petersburg children and teenagers for evaluation their predisposition to atherosclerosis**"**
1992-1995 Postgraduate fellowship, Leningrad Paediatric Medical University
1990-1992 Residency, Childhood diseases, Leningrad Paediatric Medical University
1984-1990 Leningrad Paediatric Medical University, Leningrad - St. Petersburg

Certification
2017 Certificate, Pediatrics, North-Western State Medical University n.a. I.I. Mechnikov, St. Petersburg
2016 Certificate, Diagnostics of orphan diseases, Russian Medical Academy of Postgraduate Education, Moskow
2016 Certificate, Genetics, North-Western State Medical University n.a. I.I. Mechnikov, St. Petersburg
2016 Certificate, Genetics, Almazov National Medical Research Centre, St. Petersburg
2013 Certificate, Pediatric Cardiology, North-Western State Medical University n.a. I.I. Mechnikov, St. Petersburg
2013 Certificate,Genetics, North-Western State Medical University n.a. I.I. Mechnikov, St. Petersburg

Honors
2017 Medal, Clinical Research Institute of Pediatrics n.a. academician Yu.E. Veltischev
2016 Honorary Professor, Ilizarov Scientific Centre for Restorative Traumatology and Orthopaedics
2013 Rare Disease National Award "Blue Bird", Union of patients and patient organizations on rare diseases, www.fundbluebird.ru

Grants
2017 Committee on Science and Higher Education of the St. Petersburg Administration
2015 Committee on Science and Higher Education of the St. Petersburg Administration

Professional and Patient Societies
- Founding Chairperson, Association of Specialists in the Field of Molecular Medicine and Laboratory Medical Genetics
- Member, Board of St. Petersburg Society of Medical Genetics
- Member, Society of Scientists
- Member, European Society of Human Genetics
- Member, National Council of Experts on Rare Diseases
- Chairperson, Council of Experts at National Association of Patients with Rare Diseases "Genetics"

- Co-founding Board Member, Society of Personalized Medicine

Editorial

- Member, Editorial Board, “Clinical Laboratory Consultation"
- Member, Editorial Board, "Pharmacogenetics and Pharmacogenomics”

Hospital Appointments

2013-present Children City Hospital n.a. K.A. Raukhfus
2009-present Turner Research Institute for Children’s Orthopedics
2000-2005 Leningrad Oblast Children Hospital
2000-2005 General Hospital at Leningrad Paediatric Medical University
1992-1999 Children City Hospital of St. Mary Magdalene
1990-1992 General Hospital at Leningrad Paediatric Medical University

Administrative Appointments

2014-present Curator of the author’s master degree program, St. Petersburg State University of Economics
2014-present Founding Research Director, Academy of Molecular Medicine
2013-present Professor, North-Western State Medical University n.a. I.I. Mechnikov
2009-present Principal Investigator, Turner Research Institute for Children’s Orthopedics
2000-2012 Founding Head, Laboratory of molecular cardiology

Other Professional Activities

2018 Expert, Scientific Technical Counsel at St. Peterburg University Research Park
2013- present Expert, Federal Service for Accreditation at the Ministry of Public Health of Russian Federation

Dissertation advisement

2017 Kostik M.M. “Risk factors of bone mineral density depletion in patients with juvenile idiopathic arthritis”
2013 Kozhevnikov A.N. “The role of polymorphism of p53 apoptosis gene in patients with juvenile idiopathic arthritis”
2012 Krasnova O.A. “Polymorphism of genes of renin-angiotensine-aldosteron and sympatho-adrenal system and their combinations in patients with chronic heart failure and their effect on the prognosis”
2011 Bannur R. “Molecular genetic markers of collagen metabolism genes in prediction of myopia course in children**”**
2010 Kuzmina S.V. “Features of left-ventricular myocardial remodeling depending on genetic factors in children with arterial hypertension”
2009 Zhdanova M.V. Clinical and genetic criteria for the effectiveness of inhaled glucocorticoid therapy in children with bronchial asthma”
2009 Pardo Perales G. “Metabolic and molecular genetic markers of antioxidative defense in patients with coronary artery disease”
2009 Sinitsyn P.A. “Metabolic syndrome in children and teenagers. Clinical genetic parallels”
2008 Andreeva E.F. “Clinical genetic investigation children and adolescents with renal polycystosis”
2008 Kovaleva E.S. “Psychological, clinial, and some genetic features of secondary (stress-induced) cardiomyopathies in of railway transport drivers”
2006 Kolobova O.L. “On the heterogeneity of markers of the risk of primary renal hypertension in children and”
2005 Kostik M.M. “Clinical genetic factors affecting bone tissue in children with various rheumatoid diseases”

Thesis opposition

2017 Zelenova M. “Analysis of genome variability and prioritization of candidate pathogenic processes in psychological disturbances in children“, Belgrad
2017 Nazarenko M.S. “Structural and epigenetic variability of human genome in atherosclerotic lesion of coronary and carotid arteries”, Tomsk
2015 Kravets V.S. “Cytogenetic and molecular cytogenetic studies of children with autism and their mothers”, Belgrad
2014 Minaycheva L.I. “Genetic epidemiologic study of congenital malformations in Siberian population: monitoring, medical genetic counseling, dispanserization”, Tomsk
2006 Achmetov I.I. “Associations of polymorphisms of regulatory genes with physical activity, adaptation of the cardiovascular system to physical loads and the type of human muscle fibres”

Organizational activities
2017 Chairperson, Scientific Committee, 4th Russian Congress with International Participation “Molecular Basis of Clinical Medicine: State-of-the-Art and Perspectives” St. Petersburg, Russian Federation, November 20-December 1, 2017
2016 Chairperson, Scientific Committee, 2nd Congress **“**Molecular Medicine – the New Healthcare Model of the XXI Century: Technologies, Economics, Education”, October 24-25, 2016, Pekin, China
2015 Chairperson, Scientific Committee, 3rd Russian Congress with International Participation “Molecular Basis of Clinical Medicine: State-of-the-Art and Perspectives” St. Petersburg, Russian Federation, March 26-29, 2015
2013 Chairperson, Scientific Committee, 1st Congress “Molecular Medicine – the New Healthcare Model of the XXI Century: Technologies, Economics, Education”, St. Petersburg, Russian Federation, June 26-27, 2013
2013 Chairperson, Scientific Committee, «Ethic, legal, economic, and social aspects of implementation of new molecular genetic technologies. Dialogue with society”. New Valaam, Finland, June 28-30, 2013
2010 Chairperson, Scientific Committee, 1st Russian Congress with International Participation “Molecular Basis of Clinical Medicine: State-of-the-Art and Perspectives” St. Petersburg, Russian Federation, June 7 - 9, 2010
2012 Chairperson, Scientific Committee, 2nd Russian Congress with International Participation “Molecular Basis of Clinical Medicine: State-of-the-Art and Perspectives” St. Petersburg, Russian Federation, June 18-20, 2012

Consultantships
- Actelion Pharmaceuticals Ltd
- Shire Pharmaceutical Contracts Limited
- Alexion Pharmaceuticals Inc.
- GENZYME Corporation, Sanofi Genzyme
- BioMarin Pharmaceutical Inc
- Swedish Orphan Biovitrum (Sobi)
- Orphan Europe Recordati Group
- Nutricia
- PreKUlabDr. Schär Medical Nutrition GmbH (formerly comidaMed® – Institut für Ernährung GmbH)Berlex Pharmaceuticals

Listings of conferences, master-classes, courses, lectures, are available upon request

Public Relations
http://pressmia.ru/pressclub/20170124/951380949.html
https://youtu.be/xPh5lhVcjOE
https://m.youtube.com/watch?v=FUDaMs2IpdM

Peer-reviewed publications

The most cited papers

- Kostik M, **Larionova VI**, Schellyagina LA. Clinical predictors of low bone mineral density in children with juvenile idiopathic arthritis. *Osteochondros i osteopatii (Rus) 2014, N2:11-15.* DOI:10.1530/boneabs.4.P98 (**155 citations**)
- General Report & Recommendations in Predictive, Preventive and Personalised Medicine 2012: White Paper of the European Association of Predictive, Preventive and Personalised Medicine. *EPMA Journal 2012. The 3(1):14*. DOI:10.1186/1878-5085-3-14 (**90 citations**)
- Fomicheva K, Gukova SP, **Larionova VI**, et al. Gene–Gene Interaction in the RAS System in the Predisposition to Myocardial Infarction in Elder Population of St. Petersburg (Russia) *Molecular Genetics and Metabolism 2000, 69:76-80*. DOI:10.1006/mgme.1999.2924 (**20 citations**)
- Shcherbak NS, Shutskaya ZV, Sheidina AM, **Larionova VI**, Schwartz EI. Methylenetetrahydrofolate reductase gene polymorphism as a risk factor for diabetic nephropathy in IDDM patients. *Mol Genet Metab. 1999:68:375-378.* DOI:10.1006/mgme.1999.2909 (**57 citations**)
- Kostik MM, Klyushina AA, Moskalenko MV, Scheplyagina LA**, Larionova VI.** Glucocorticoid receptor gene polymorphism and juvenile idiopathic arthritis. *Pediatr Rheumatol Online J 2011, 9:2.* DOI: 10.1186/1546-0096-9-2. **(13 citations)**

Less cited papers (< 10 citations)

- Vissarionov VS, **Larionova VI**, Kazarian IV, et al. The gene polymorphisms of COL1A1 and VDR in children with scoliosis. *Pediatric Traumatology, Orthopaedics and Reconstructive Surgery*, *2017, 5:5-12.* DOI:10.17816/PTORS515-12.
- Kostik M, Kuzmina DA, Novikova VP**, Larionova VI**, et al. Caries in adolescents in relation to their skeletal status. J*ournal of pediatric endocrinology & metabolism 2014, 28:399-405*. DOI:10.1515/jpem-2014-0165
- Kostik M, Schellyagina LA. **Larionova VI**. Role of vitamin D receptor (VDR) gene polymorphism in the pathogenesis of juvenile idiopathic arthritis: Theoretical and practical aspects. *Sovremennaja revmatologia (Rus) 2014, N3:28-33.* DOI:10.14412/1996-7012-2014-3-28-33
- Kostik MM, Smirnov AM, Demin GS, Scheplyagina LA, **Larionova VI**. Juvenile idiopathic arthritis patients and their skeletal status: Possible role of vitamin D receptor gene polymorphism *Molecular Biology Reports 2014, 41(4) 1937-1943.* DOI:10.1007/s11033-014-3040-x
- Kostik MM, Smirnov AM, Demin GS, Mnuskina MM, Scheplyagina LA, **Larionova VI.** Genetic polymorphisms of collagen type I α1 chain (COL1A1) gene increase the frequency of low bone mineral density in the subgroup of children with juvenile idiopathic arthritis. *EPMA J. 2013 Jun 13;4(1):15.* DOI: 10.1186/1878-5085-4-15
- Semenova ON, Kostik MM, […],**Larionova IV.** Molecular genetic markers of ostheoporosis in inhabitants of blockaded Leningrad. Osteoporos i osteopatii 2011, N2:11-13.
- Kostik VV, Mnuskina MM, Makarova IN, […], **Larionova IV**. Bone mass and bone metabolism in children with juvenile idiopathic arthritis. Osteoporos i osteopatii 2011, N3:19-23. DOI:10.14341/osteo2011319-23
- Shcherbakova MIu, Sinitsin PA, Poriadina GI, **Larionova VI**, Khmyrova AP, Petriaĭkina EE, Pronina LA.. Correlation of metabolic syndrome clinical signs and genetic determinants at children with obesity [Article in Russian]. *Eksp Klin Gastroenterol. 2010;(7):6-11*. PMID:21033077
- Petrova VV, Spesivtsev IuA, **Larionova VI**, Egorenkov MV, Smirnov GA, Remezov AV, Chub VIu.. Pathogenetic and clinical features of the course of pyonecrotic complications of diabetic foot. [Article in Russian]. *Vestn Khir Im I I Grek. 2010;169(2):121-124.* PMID:20552808
- Grineva E, Babenko A, Vahrameeva N, **Larionova VI**. Type 2 deiodinase Thr92Ala polymorphism impact

on clinical course and myocardial remodeling in patients with Graves' disease. *Cell cycle (Georgetown, Tex.) 2009, 8(16):2565-9.* DOI:10.4161/cc.8.16.9250

- Smirnov AV, Dobronravov VA, Bodur-Oorzhak ASh, Zver'kov RV, **Larionova VI**, Glazkov PB, Bogdanova MA, Mnuskina MM, Kaiukov IG, Sanchi MN. Epidemiology and risk factors of chronic renal diseases: a regional level of the problem. [Article in Russian]. *Ter Arkh. 2005;77(6):20-27.* PMID:16078595
- Sverdlova AM, Bubnova NA, Baranovskaya SS, **Vasina VI**, Avitisjan AO, Schwartz EI. Prevalence of the methylenetetrahydrofolate reductase (MTHFR) C677T mutation in patients with varicose veins of lower limbs. *Mol Genet Metab. 1998 Jan;63(1):35-36.* DOI:10.1006/mgme.1997.2638
- Skobeleva NA, **Vasina V**I, Volkova MV, Sverdlova AM, Fomicheva EV, Obraztsova GI, Talalaeva EI, Shakir Kh, Laasri M, Vorontsov IM, Kovalev IuP, Shvarts EI. [Article in Russian]. DNA polymorphism in the region of APOB100, APOCIII, APOE, and angiotensin-converting enzyme genes and indicators of the lipid spectrum in children and adolescents in St. Petersburg]. *Mol Gen Mikrobiol Virusol. 1997, N4:36-40*. PMID:9411220
- Volkova MV**, Vasina VI**, Obraztsova GI, Schwartz EI. Identification of the C-->T polymorphism in the +93 position of the apo(a) gene by mismatch PCR-mediated site-directed mutagenesis and restriction enzyme digestion. *Biochem Mol Med. 1996, 59:91-92.* PMID:8902201
- Volkova MV, **Vasina VI**, Fomicheva EV, Schwartz EI. Comparative analysis of apo(a) gene alleles: distribution of pentanucleotide repeats in position -1373 and C/T transition in position +93 among patients with myocardial infarction and a control group in St. Petersburg, Russia. *Biochem Mol Med. 1997, 6:208-213.* PMID:9259986
- Golban TD, Cheshin SG, Kuznetsov VP, Farber NA, Beliaev DL, Kirzhner LS, Babaiants AA, **Vasina VI.** [Article in Russian] Leukinferon in the treatment of patients with acute viral hepatitis b. *Klin Med (Mosk). 1994;72(3):27-29.* PMID:799034