Curriculum vitae

PERSONAL INFORMATION

Nevyana Ivanova

nevianai@hotmail.com

WORK EXPERIENCE

01/04/2019–Present

Molecular geneticist

Medical University - Sofia, Sofia (Bulgaria)

To perform high-throughput data analysis in biological experiments (next-generation sequencing, micro-array analysis), statistical analysis and interpretation.

01/05/2017–31/03/2019

Molecular biologist

Medical University - Sofia, Sofia (Bulgaria)

Project „Hereditary cerebellar ataxias - molecular epidemiology in Bulgarian population and searching for new forms of the disease“/DFNI B02/3 / 12.12.2014

01/04/2012–17/12/2014

Molecular biologist

Medical University - Sofia, Sofia (Bulgaria)

Molecular biologist in the Neurogenetics group, Molecular Medicine Centre, Dept. Medical Chemistry and Biochemistry

15/09/2012–Present

Assistant Professor in Medical Biochemistry

Medical University - Sofia, Sofia (Bulgaria)

Teaching Medical Biochemistry in Bulgarian and English .

25/06/2010–31/03/2012

Head of the Department "Molecular Diagnostics"

MDL Cibalab LLC, Sofia (Bulgaria)

01/11/2007–31/12/2008

Post Doctoral position

IPATIMUP, Porto (Portugal)

Project "Looking for evidences of human adaptation in the proteolysis universe: the case-study of serine protease inhibitors

01/02/2007–30/10/2007

Molecular biologist

MDL CibaLab LLC, Sofia (Bulgaria)

Molecular diagnostics of infectious diseases.

01/12/2004–31/01/2006

Biology specialist

Department of Chemistry and Biochemistry, Medical University - Sofia, Sofia (Bulgaria)

01/12/2001–31/12/2004

PhD student

Department of Chemistry&Biochemistry, Medical University - Sofia and Laboratory of

Molecular Pathology, Hospital of Obstetrics &Gynecology „Maichin dom", Sofia (Bulgaria)

Molecular pathology of different neurodegenerative disorders.

01/04/1996–30/11/2001

Biology specialist

National Center for Hygiene, Medical Ecology & Nutrition, Sofia (Bulgaria)

Studying mutagenesis of different toxic substances *in vivo* in rodents, and *in vitro* in lymphocyte cultures.

EDUCATION AND TRAINING

01/02/2002–01/02/2007

Board Certification in Medical Biochemistry, code 01.06.10

Department of Medical Chemistry&Biochemistry, Medical University-Sofia, Sofia (Bulgaria)

01/12/2001–11/12/2006

Doctor Philosophy

Department of Chemistry&Biochemistry, Medical University - Sofia and Laboratory of Molecular Pathology, Hospital of Obstetrics &Gynecology „Maichin dom", Sofia (Bulgaria)

Doctoral thesis: „Molecular characteristics of hereditary spastic paraplegia in Bulgaria"

01/10/1989–06/02/1995

MSc degree in Biotechnology, specialization in Gene and Cell Engineering

Faculty of Biology, Sofia University "Saint Kliment Ohridski", Sofia (Bulgaria)

MSc thesis: „Cloning and primary charachteristics of anti-C3 secreting hybridoma cell lines"

15/09/1985–30/06/1989

Secondary school of Mathematics and natural sciences "Dr. Peter Beron", Biology class, Varna (Bulgaria)

PERSONAL SKILLS

Mother tongue(s): Bulgarian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
	TOEFL, GRE-General, GRE-Subject Biology				
Russian	C2	C2	C1	C1	B2
	Primary and Secondary school diploma for Russian as a foreign language				
Dutch	A2	A2	A2	A2	A1
	University language centre, University of Antwerp, Antwerp, Belgium				
Portuguese	B1	B1	B1	B1	A2
	Certificado de Lingua Portuguesa de Junta de Freguesia do Bonfim, Porto, Portugal				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills: Excellent communication skills

Team player working in multi-disciplinary scientific and medical environment

Organisational / managerial skills

Excellent organizational skills

Principal investigator, project leader and coordinator of different scientific projects.

Supervisor of MSc student from the Department of Genetics, Biology Faculty, Sofia University "St.Kliment Ohridski"

Supervisor of the summer laboratory practice of students from foreign universities.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Independent user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Working with big data and genomic software for the analysis of the effect of genetic variants in the pathology of the genetic disorders.

ADDITIONAL INFORMATION

Projects

1. DTK B02/3/2014: „Hereditary cerebellar ataxias - molecular epidemiology and searching for new forms“ , The Ministry of Education of Bulgaria

2. DTK 67/02/2009: „Modern approaches to reveal the genetic characteristics of epilepsy", The Ministry of Education of Bulgaria

3. Project № 18-D/2010: “Molecular-genetic analysis of the SLC2A1 gene and phenotype-genotype correlations in patients with child absence epilepsy with early onset”, MU-Sofia, Bulgaria.

4. Project №91/2013: “ Molecular defects in benign neonatal forms of epilepsy and electro-clinical syndromes”, MU-Sofia, Bulgaria.

5. Project: „Looking for evidences of human adaptation in the proteolysis universe: the case-study of serine protease inhibitors”, Fundação para a Ciência e a Tecnologia, Ministério da Ciência, Tecnologia e Ensino Superior, Portugal, 2007.

6. Project №2/2006: ‘Screening for molecular defects in NIPA1-gene among Bulgarian patients with HSP", MU-Sofia, Bulgaria.

7. Project № 15/2000: „Molecular characteristics of peripheral hereditary neuropathy in Bulgaria”, MU-Sofia, Bulgaria.

8. Project № 14/2000: „Further studies of the genetic factors in HIV-1 infection”, MU-Sofia, Bulgaria.

9. Project № 19/1999: „Study of the frequency of genetically determined resistance to HIV-1 infection in randomly selected group from Bulgarian population”, MU-Sofia, Bulgaria.

Publications

LIST OF PUBLICATIONS IN JOURNALS WITH IMPACT FACTOR

1. Peycheva V, Kamenarova K, Ivanova N, Stamatov D, Avdjieva-Tzavella D, Alexandrova I, Zhelyazkova S, Pacheva I, Dimova P, Ivanov I, Litvinenko I, Bozhinova V, Tournev I, Simeonov E, Mitev V, Jordanova A, Kaneva R. Chromosomal microarray analysis of Bulgarian patients with epilepsy and intellectual disability. Gene. 2018 Aug 15;667:45-55.

2. Ivanova N, Peycheva V, Kamenarova K, Kancheva D, Tsekova I, Aleksandrova I, Hristova D, Litvinenko I, Todorova D, Sarailieva G, Dimova P, Tomov V, Bozhinova V, Mitev V, Kaneva R, Jordanova A. Three novel SLC2A1 mutations in Bulgarian patients with different forms of genetic generalized epilepsy reflecting the clinical and genetic diversity of GLUT1-deficiency syndrome. Seizure. 2018 Jan;54:41-44.

3. Seixas S, Ivanova N, Ferreira Z, Rocha J, Victor BL. Loss and gain of function in SERPINB11: an example of a gene under selection on standing variation, with implications for host-pathogen interactions. PLoS One. 2012; 7(2): e32518.

4. N. Ivanova, K.G. Claeys, T. Deconinck, I. Litvinenko, A. Jordanova, M. Auer-Grumbach, Haberlova, A. Löfgren, G. Smeyers, E. Nelis, R. Mercelis, B. Plecko, J. Priller, J. Zámečník, B. Ceulemans, A.K.

Erichsen, E. Björck, G. Nicholson, M.W. Sereda, P. Seeman, I. Kremensky, V. Mitev, P. De Jonghe. Hereditary spastic paraplegia 3A associated with axonal neuropathy. Arch Neurol 2007 May; 64(5):706-13.

5. N.Ivanova, A.Löfgren, I.Tournev, R.Rousev, A.Andreeva, A.Jordanova, V.Georgieva, V.Timmerman, I.Kremensky, P.DeJonghe, V.Mitev. Spastin gene mutations in Bulgarian patients with hereditary spastic paraplegia. Short communication, Clinical Genetics 2006: 70: 490-495.

6. Jordanova A, Thomas FP, Guergueltcheva V, Tournev I, Gondim FA, Ishpekova B, De Vriendt E, Jacobs A, Litvinenko I, Ivanova N, Buzhov B, De Jonghe P, Kremensky I, Timmerman V. Dominant intermediate Charcot-Marie-Tooth type C maps to chromosome 1p34-p35. Am J Hum Genet. 2003 Dec;73(6):1423-30. Epub 2003 Nov 6.

7. V.Guerguelcheva, I.Tournev, B.IshpekovaA.Jordanova, N.Ivanova, I.Kremensky, L.Belopitova. X-linked dominant Charcott-Marie-Tooth disease – connexinopathy in Bulgarian families. Bulgarian Neurology Dec, 2003: 268-271.

8. I Kremensky, A Todorova, A Jordanova, A Savov, I Tournev1, S Iankova, B Georgieva, B Zaharova, R Kaneva, R Petkova, S Andonova, M Ivanova, N Ivanova, R Rainova and L Kalaydjieva. Spectrum of Mutations of the Most Common Genetic Disorders in Bulgaria. J.Q.L.R - E.C.Qua.L 2003, Vol.1 (2) 172-185.

9. Ivanova N, Jordanova A, Kantardjieva A, Tournev I, Ishpekova B, Guergueltcheva V, Daskalov M, Litvinenko I, Veleva S, Mitev V, Kremensky I. Molecular diagnosis of CMT1 using polymorphic DNA markers. Balkan J Med Genet 2001, Vol 4, 41-46.

10. Vachkova-Petrova, R.; Kappas, A.; Filipov, S.; Tyagunenko, E.; Ivanova, N., 1997: Use of biomarkers in risk assessment for exposure to environmental heavy metals. Mutation Research 379(1 Suppl. 1): S111

LIST OF PUBLICATIONS IN BULGARIAN JOURNALS

1.I.Litvinenko, N.Ivanova, A.Jordanova, I.Turnev. Hereditary spastic paraplegia: Clinical and genetic aspects in the light of our experience. Pediatriya Jan 2011. 51(2):32-35.

2. Andreeva A, Jordanova A, Guergelcheva V, Mihaylova V, Ivanova N., Turnev I. Bulgarian family with hereditary spastic paraplegia with hypoplasia of corpus callosum. Bulgarian Neurology&Psychiatry, 2008; v.3:7-9

3. Andreeva A, Turnev I, Litvinenko I, Ivanova N. Modern aspects of hereditary spastic paraplegia. Clinics, diagnostics and neuropathology. Bulgarian Neurology, 2005; v.5, n.3:130-134

4. Ivanova N, Jordanova A, Mitev V, Andreeva A, Turnev I, Litvinenko I, Kremensky I. Modern aspects of hereditary spastic paraplegia. Molecular mechanisms. Bulgarian neurology, 2005; v.5, n.3:124-129

Conferences

УЧАСТИЕ В НАУЧНИ ФОРУМИ

1. N.Ivanova, S.Bichev, D.Kancheva, T. Chamova, V.Guergelcheva, M. Radionova, J.Samuel, V.Bojinova, I.Turnev, V.Mitev, A. Savov, A. Jordanova, R.Kaneva. A complex approach in molecular diagnostics of hereditary cerebellar ataxias and the role of massive parallel sequencing in differential diagnosis in children with a complex clinical phenotype. Oral presentation. National conference of child neurology, psychiatry and psychology of the development, 11-12 Oct 2018, Park-hotel „Moscow", Sofia.

2. N.Ivanova, V.Peycheva, K. Kamenarova, I.Tzekova, D.Kancheva, R.Tzveova, I.Alexandrova, D.Hristova, D.Todorova, G.Sarailieva, P.Dimova, V.Tomov, V.Bojinova, M.Konstantinova, V.Mitev, A. Jordanova, R.Kaneva. Molecular-genetic analysis in patients with GLUT1-DS. Oral presentation. XVII-th National Conference of General Practitioners and Pediatricians with international participation , 21-23 May 2016.

3. V. Peycheva, K. Kamenarova, N. Ivanova, P. Dimova, S. Zhelyazkova, D. Avdjieva, E. Slavkova, G. Maksimov, V. Stoyanova, I. Litvinenko, I. Tournev, V. Bozhinova, V. Mitev, A. Jordanova, R. Kaneva. Recurrent CNVs in 15q11.2-q12 in Bulgarian patients with generalized epilepsy and intellectual disability. Poster presentation, The European Human Genetics Conference, May 31-June 3, 2014, 22.

2. N. I. Ivanova, D. Kancheva, D. Todorova, G. Sarailieva, I. Alexandrova, G. Maximov, P. Dimova, V. Tomov, D. Hristova, V. Bozhinova, V. Mitev, R. Kaneva, A. Jordanova. Mutation analysis of SLC2A1 gene in Bulgarian patients with IGE featured with absence seizures. The European Human Genetics Conference, June 8-11, 2013, P08.32. Eur J Hum Genet.Vol. 21 Suppl 2 Jun 2013, 220.

3. V.Peycheva, N.Ivanova, K.Kamenarova, I.Tzekova, I.Alexandrova, V.Bojinova, I.Litvinenko, R.Georgieva, D.Hristova, M.Bojidarova, V. Mitev, R.Kaneva, A. Jordanova. Molecular defects in the KCNQ2 gene in patients with benign neonatal forms of epilepsy and electro-clinical syndromes.

Poster presentation, National conference of child neurology, psychiatry and psychology of the development, 23-25 Oct 2014, Park-hotel „Moscow", Sofia.

4. I.Alexandrova, V.Bojinova, N.Ivanova, E.Slavkova, P.Dimova, V.Peycheva, R.Kaneva, A. Jordanova. Mutation in the KCNQ2 gene: rare cause for Rolandic epilepsy. Poster presentation, National conference of child neurology, psychiatry and psychology of the development, 23-25 Oct 2014, Park-hotel „Moscow", Sofia.

5. V.Peycheva, K.Kamenarova, N. Ivanova. Microarray analysis for finding of genomic aberrations in epilepsy and mental retardation . Oral presentation, Symposium „Acad. Chudomir Nachev", 25 Oct 2014, BAS, Sofia, Bulgaria.

6. Nevyana Ivanova, Zélia Ferreira, Jorge Rocha, Susana Seixas. Loss and gain of gene function in human SERPINB11. Abstracts, Annual Meeting of the Society for Molecular Biology and Evolution, 5-8 June 2008, Barcelona, Spain.

7. Zélia Ferreira, Nevyana Ivanova, Jorge Rocha, Susana Seixas. Searching for evidences of natural selection on the human WFDC cluster located in the 20q13 region. Abstracts, Annual Meeting of the Society for Molecular Biology and Evolution, 5-8 June 2008, Barcelona, Spain.

8. K. G. Claeys, N. Ivanova, T. Deconinck, I. Litvinenko, A. Jordanova, A. Löfgren, E. Nelis, R. Mercelis, M. Auer-Grumbach, J. Priller, B. Ceulemans, M. W. Sereda, I. Kremensky, V. Mitev, P. De Jonghe. SPG3A mutations are associated with pure and complex forms of Hereditary spastic paraplegia. Abstracts / Neuromuscul Disord 16 (2006) S48-S196.

9. N.Ivanova, I.Tournev, I.Litvinenko, R.Rousev, A.Lofgren, A.Jordanova, P.DeJonghe, V.Mitev, I.Kremensky. Genetic analysis of the two major ADHSP genes in Bulgarian patients with Hereditary spastic paraplegia. EJHG p.246: PO769 (European Human Genetics Conference 2005, Prague, May 7-10).

10. N.Ivanova. 'First case of prenatal diagnosis of HMSN1 in Bulgaria', National conference of children neurology, psychiatry and psychology of development, 24-26 Oct, 2002, Sofia Bulgaria.

11. Jordanova A., Kantardjieva A., Ivanova N., Tournev I., Ishpekova B., Guergelcheva V., Daskalov M., Litvinenko I., Veleva S., Mitev V., Kremensky I. Diagnostics of Bulgarian patients with CMT1 and HNPP using polymorphic DNA markers. 4th Balkan Meeting on Human Genetics, Novi Sad, 24-26 August 2000.

12. A. Savov, I. Kremensky, N. Ivanova, A. Angelov, L. Froloshka, S. Raleva and R. Argirova. Frequency of CCR5 – del32 mutationin three ethnic groups from Bulgarian population. Monduzzi Editore International Proceedings Division A709/C/1240 p. 127-131. XIII INTERNATIONAL AIDS Conference Durban South Africa 9-14 July (2000).

13. R. Argiova, R. Markova, V. Terzieva, L. Froloshka, S. Raleva, I. Dikov, A. Savov, N. Ivanova and I. Kremensky. CCR5 – del32 mutation in HIV- infected persons in Bulgaria – Link to clinical course of HIV – 1 infection (Preliminary data). Monduzzi Editore International Proceedings Division A709/C/1228 p. 133-135. XIII INTERNATIONAL AIDS Conference Durban South Africa 9-14, July (2000).

14. A. Savov, N. Ivanova, A. Angelov, R. Argirova, I. Kremenski. Frequency of del32ccr5 allele in three different ethnic groups from Bulgarian population. Balkan Journal of Clinical Laboratory VI'99'I, pp114. Balkan Congress in Clinical Laboratory, 7-11 October 1999, Antalya, Turkey.

15. T. Bourkova, N. Ivanova, V.Kapurdov. Enzymohistochemical and electronmicroscopic analyses of rat liver after oral application of Ksilanase. Annual Proceedings. 8th Assembly of International Medical Association "Bulgaria" (IMAB), 25-27 May 1998, Varna, Bulgaria.

16. A. Kappas, R. Vachkova-Petrova, S. Lalchev, V. Georgieva, E. Zarani, P. Papazafiri, E. Antonopoulou, A. Vaglenov, S. Filipov, N. Ivanova. Use of Biomarkers in Risk Assessment for Exposure to Environmental Chemicals. 26th EEMS Annual Meeting Workshop, Chromosome Instability and Cell Cycle Control, 3-7 Sept. 1996, Rome, Italy.

Courses

20 май 2011

Workshop "Accreditation for beginners, how to implement ISO 15189", Zagreb, Croatia

23 март – 01 април 2001

Fellowship from European Genetic Foundation - European school of Medical Genetics, Sestri Levante, Italy.

Honours and awards

October 2002 – August 2003

Fellowship from Flemish community, Belgium - Neurogenetics Group, Department of Molecular

Genetics, Flanders Institute of Biotechnology (VIB), Institute Born Bunge, University of Antwerp, Antwerp, Belgium

May – September 2001

Erasmus exchange student, EU community in the Neurogenetics Group, Department of Molecular Genetics, Flanders Institute of Biotechnology (VIB), Institute Born Bunge, University of Antwerp, Antwerp, Belgium