PERSONAL INFORMATION

Kunka Kamenarova

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Sex Female | Date of birth 01/05/1978 | Nationality Bulgarian

WORK EXPERIENCE

March, 2013 - current	Molecular biologist Molecular Medicine Center Medical University – Sofia, Sofia, Bulgaria Genetics of Inherited Retinal Degenerations Next-generation DNA sequencing
November, 2008 - January, 2013	Postdoctoral Fellow Department of Cell Therapy and Regenerative Medicine CABIMER Seville, Spain Genetics of Inherited Retinal Degenerations Next-generation DNA sequencing
January, 2007 - October, 2008	Postdoctoral Fellow Molecular Medicine Center Medical University – Sofia, Sofia, Bulgaria Genetics of Inherited Retinal Degenerations

EDUCATION AND TRAINING

2003 – 2007	PhD AgroBioInstitute, Sofia, Bulgaria
2000 – 2003	Environmental Protection Inspector Chemical and Metallurgy University of Sofia, Bulgaria
2000 - 2002	MSc Engineer - Biotechnologist Chemical and . Metallurgy University of Sofia, Bulgaria

PERSONAL SKILLS

Mother tongue(s) Bulgarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2

Spanish	A1/A2	B1/B2	B1/B2	A1/A2	C1/C2

Communication skills

- Excellent communication skills.
- Highly critical thinker with effective researching skills proven through work experience in Molecular Medicine Center and CABIMER.
- Flexible team worker who prospers in a fast-paced work environment based on past experience.

Teaching Experience

- Supervised MSc student, Department of Medical biochemistry and Molecular biology, University of Seville, Spain, 2012 (Title: Prioritization and mutation screening of positional candidate genes in Spanish families with autosomal dominant Retinitis Pigmentosa)
- Supervised MSc student, Departments of Genetics, Biochemistry; Plant physiology, Faculty of Biology, Sofia university, 2015 (Title: Genetic analysis of Bulgarian pedigrees affected by retinal degeneration).

ADDITIONAL INFORMATION

Publications

PhD thesis: Genetic transformation of barley (*Hordeum vulgare* L.) with human lactoferrin gene via direct gene transfer

10 Papers in peer reviewed journals

5 Papers in Bulgarian journals

113 citations without self-citations (SCOPUS/**ISI Web of Knowledge**, actual date)

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Selected publications

- 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.

- Bolinches-Amorós A, Lukovic D, Castro AA, León M, Kamenarova K, Kaneva R, Jendelova P, Blanco-Kelly F, Ayuso C, Cortón M, Erceg S. Generation of a human iPSC line from a patient with congenital glaucoma caused by mutation in CYP1B1 gene. Stem Cell Res. 2018 Apr;28:96-99.

- 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. 2017 Nov 28;54:41-44.

- Penchev V, Boueva A, Kamenarova K, Roussinov D, Tzveova R, Ivanova M, Dimitrova V, Kremensky I, Mitev V, Kaneva R, Beltcheva O. A familial case of severe infantile nephronophthisis explained by oligogenic inheritance. Eur J Med Genet. 2017 Jun;60(6):321-325.

- Coussa RG, Chakarova C, Ajlan R, Taha M, Kavalec C, Gomolin J, Khan A, Lopez I, Ren H, Waseem N, Kamenarova K, Bhattacharya SS, Koenekoop RK. Genotype and Phenotype Studies in Autosomal Dominant Retinitis Pigmentosa (adRP) of the French Canadian Founder Population. Invest Ophthalmol Vis Sci. 2015 Dec;56(13):8297-305.

- Kamenarova K, Simeonov E, Tzveova R, Dacheva D, Penkov M, Kremensky I, Perenovska P, Mitev V, Kaneva R. Identification of a novel de novo mutation of CREBBP in a patient with Rubinstein-Taybi syndrome by targeted next-generation sequencing: a case report. Hum Pathol. 2016 Jan;47(1):144-9.

- Lukovic D, Artero Castro A, Delgado AB, Bernal Mde L, Luna Pelaez N, Díez Lloret A, Perez Espejo R, Kamenarova K, Fernández Sánchez L, Cuenca N, Cortón M, Avila Fernandez A, Sorkio A, Skottman H, Ayuso C, Erceg S, Bhattacharya SS. Human iPSC derived disease model of MERTK-associated retinitis pigmentosa. Sci Rep. 2015 Aug 11;5:12910.

- Kamenarova, K., Corton, M., García-Sandoval, B., Fernández-San, Jose P., Panchev, V., Ávila-Fernández, A., López-Molina, M.I., Chakarova, C., Ayuso, C., Bhattacharya, S.S. Novel GUCA1A Mutations Suggesting Possible Mechanisms of Pathogenesis in Cone, Cone-Rod, and Macular Dystrophy Patients. Biomed Res Int. 2013;2013: 517570.

- Kamenarova, K., Cherninkova, S., Romero Durán, M., Prescott, Q., Valdés Sánchez, M.L., Mitev, V., Kremensky, I., Kaneva, R., Bhattacharya, S.S., Tournev, I., and Chakarova, C. A novel locus for autosomal dominant cone-rod dystrophy maps to chromosome 10q. Eur J Hum Genet. 2013 Mar;21(3):338-42.
- Sivadorai, P., Cherninkova, S., Bouwer, S., Kamenarova, K., Angelicheva, D., Seeman, P., Hollingsworth, K., Mihaylova, V., Oscar, A., Dimitrova, G., Kaneva, R., Tournev, I., Kalaydjieva, L. Genetic heterogeneity and minor CYP1B1 involvement in the molecular basis of primary congenital glaucoma in gypsies Clin Genet. 2008 Jul;74(1):82-7.

Projects

- Identification of gene mutations causing retinal degenerations in Bulgarian patients using targeted next-generation sequencing, funded by: Medical University, Sofia, Bulgaria. 2018. Role: Participant
- Next-generation sequencing of target genes for retina degeneration in Bulgarian patients, funded by: Medical University, Sofia, Bulgaria. 2015. Role: Participant
- Mutation screening of Bulgarian patients affected by retinal degenerations, funded by: Medical University, Sofia, Bulgaria. 2014. Role: Participant
- Molecular mechanism of diseases as sociated with a major gene *PRPF31* for autosomal dominant retinitis pigmentosa, funded by: Conserjería de Innovación, Ciencia y Empresa de la Junta de Andalucía (Proyectos de Excelencia), Spain. 2010-2013. Role: Participant
- Effect of *ABCA4* genetic variants on age-related macular degeneration and risk assessment in Bulgarian population, funded by: Medical University, Sofia, Bulgaria. 2008-2009. Role: Participant
- Genome Analysis and finding of Retinitis Pigmentosa genes in the Bulgarian Roma population, funded by: Program Genomics, National Science Found, Ministry of Education and Science, Bulgaria. 2004-2008. Role: Participant

Conferences

- Sivadorai P, Cherninkova S, Bouwer S, Kamenarova K, Angelicheva D, Seeman P, Hollingsworth K, Mihaylova V, Oscar A, Dimitrova G, Kaneva R, Tournev I, Kalaydjieva L.Minor CYP1B1 involvement in the molecular basis of primary congenital glaucoma in Bulgarian Gypsies. P07.105. European Human Genetics Conference, Barcelona, Spain, May 31 – June 3, 2008 – Poster presentation.
- Kamenarova K, Cherninkova S, Prescott Q, Romero Durán M, Krishna A, Valdés Sánchez ML, Oscar A, Kaneva R, Kremensky I, Chakarova C, Tournev I, Bhattacharya S. A novel locus for autosomal dominant cone-rod dystrophy in a family of Gypsy origin. 59th Annual Meeting of The American Society of Human Genetics. Honolulu, Hawai, EEUU, October 20-24, 2009. Poster presentation.
- Cherninkova S, Tournev I, Kamenarova K, Georgiev R, Kaneva R, Bhattacharya S, Chakarova C. Clinical assessment and genetic mapping of a novel locus for autosomal dominant cone-rod dystrophy in a family of Romani (Gypsy) origin. 11th EURORETINA Congress. London, UK, May 26-29, 2011. Poster presentation.
- Lukovic D, Erceg S, Kamenarova K, Diez A, Valdés L, Massalini S, Ayuso C, Bhattacharya SS. Development of patient-specific IPS cells in order to model Leber congenital amaurosis disease. International Society for Stem Cell Research (ISSCR) conference. Yokohama, Japan, June 13-16, 2012. Poster presentation (T-1015).
- Lukovic D, Diez Lloret A, Massalini S, Valdés L, Kamenarova K, Pérez R, Cortón M, Ayuso C, Erceg S, Bhattacharya S. Development of patient-specific IPS cells in order to model retinal disease. International Symposium on Cell and Gene-based Therapies. Granada, Spain, June 28, 2012. Poster presentation.
- Kamenarova, K., Koev, K., Chakarova, C., Tzveova, R., Dacheva, D., Mitev, V., Bhattacharya, S., Cherninkova, S., Kaneva, R. Mutation screening in autosomal dominant retinitis pigmentosa family using targeted next generation sequencing. The European Human Genetics Conference, 30.05 -03.06.2013, Milan, Italy/Eur J Hum Genet, Volume 22, Supplement 1, May 2014, J02.18.
- Peycheva, V, Kamenarova, K, Ivanova, N, Dimova, P, Jhelyazkova, S, Avdjieva, D, Slavkova, E, Maximov, G, Stoyanova, V, Litvinenko, I, Tournev, I, Bozhinova, V, Mitev, V, Kaneva, R, Jordanova, A. Recurrent CNVs in 15q11.2-q12 in Bulgarian patients with generalized epilepsy and intellectual disability. The European Human Genetics Conference, 30.05 -03.06.2013, Milan, Italy/Eur J Hum Genet, Volume 22, Supplement 1, May 2014, P08.36-M.

References

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Courses

Gene Mapping Course, November 7-11, 2011, Max Delbrueck Center (MDC) for Molecular Medicine, Berlin, Germany

Course in Eye Genetics, September 23-25, 2010, EuroMediterranean University, Centre of Ronzano, Bologna, Italy

Certificates

Certificate of completion „Making sense of my data“, Illumina, 2014, Cambridge, United Kingdom.