PERSONAL INFORMATION

Chiril Boiciuc

Affiliation: Institute of Mother and Child,
Centre of Reproductive Health and Medical Genetics,
Human Molecular Genetics Laboratory.
82 Burebista str. MD- 2062, Chișinău, Republic of Moldova
Specialty: Molecular Biology
Function: Junior Scientific Researcher
Title: Master Degree
Area of interest: Molecular-genetic diagnosis of human diseases
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WORK EXPERIENCE

01.08.2010-01.01.2011 Laboratory technician in Prevention of Hereditary PathologiesLaboratory

- Performing neonatal screening for PKU detection by flourometric method (in unique lab of Moldova) under conduction of Dr. Natalia Usurelu, MD PhD, coordinator researcher.
- Research at the molecular level of PAH gene in patients with phenylketonuria (PKU) identified by neonatal screening.

01.01.2011-present Junior Scientific Researcher in Human Molecular Genetics Laboratory

- Research at the molecular level of PAH gene in patients with phenylketonuria (PKU) from Moldova
- Research of hereditary thrombophilia factors (F2 G20210A, F5 G1691A, PAI-1 4G/5G, VKORC1 C1173T and G1639A) in women with reproductive problems from Moldova.
- Study of Inborn Errors of Metabolism at the molecular level (galactosemia, homocysthein metabolism).
- Participating in young investigator project (14.819.04.07F) by genotyping all PKU patients with unclear genotype of PAH gene by sequencing method.
- Short practice stage in RNM spectroscopy of biological fluids of patients with unclear diagnostics in RNM laboratory, Institute of Macromolecular Chemistry, Romania during Moldavian-Romanian project (07\RoF).

EDUCATION AND TRAINING

12.03.2016-20.03.2016 Certificate from training attended Radboudumc, Translational Metabolic Laboratory, Nijmegen, The Netherlands.
Clinical and biochemical training in inborn errors of metabolism

01.09.2012-30.06.2014 Master Program in the University of Academy of Sciences of Moldova, Faculty of Natural Sciences, Specialty molecular biology

- The analysis of genes regulating the accumulation of homocysteine in patients with phenylketonuria in the Republic of Moldova.

15.07.2013-22.07.2013 Certificate of Participation
Summer School in Molecular Genetics, University of Academy of Sciences of Moldova Chisinau, Republic of Moldova

27.06.2013 Certificate from training training course "simulation in continues medical education, ethical issues in neonatal malformation pathology", Varatec, Romania.

8.12.2012 Seminar on the principles of searching and usage of information from bioinformatics databases, Chisinau, Moldova

01.09.2009-30.06.2012	Bachelor degree State University of Republic of Moldova, Faculty of Biology and Pedology., Chisinau (Moldova) • The biochemical and genetic polymorphism in inborn errors of phenylalanine metabolism. **General skills** - biologic cell, genetics, biochemistry, plant and animal physiology, anatomy, botany, English, - Physical education **Professional Skills** - Professional practice (the PCR/RFLP assay for identification of PAH gene mutations (*R408W, P281L, R158Q, R261Q, R252W, IVS12+1G>A*)) - Applied sciences tools and equipment used in research (fluorometry, biochemistry, PCR machine, hygiene) - Psycho-pedagogical module.

PERSONAL SKILLS

Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1/2: Independent user	B1/2: Independent user	B1/2:Independent user	B1/2:Independent user	B1/2:independent user
Russian	C1/2: Proficient user	C1/2: Proficient user	C1/2: Proficient user	C1/2: Proficient user	B1/2: Independent user

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills	Good communication skills gained from my experience as • Superior laboratory assistant (Centre for Reproductive Health and Medical Genetics), • Junior Scientific Researcher (Institute of Mother and Child)
Organisational / managerial skills	Good organizational skills gained in the organization of various touristic events in "Everest" club.
Job-related skills	- A good capacity for adaptation and learning new methods and techniques.
Computer skills	- Excellent command of Microsoft Office™ tools (word processor, spreadsheet, presentation software: PowerPoint). - Good knowledge of bioinformatics databases (Ensembl, NCBI). - Solid skills in using of different bioinformatics tools (Blast, Primer3, NebCutter, etc.).
Driving licence	No license

ADDITIONAL INFORMATION

Scientific projects

- **2011-2014** - "Evaluation of causing factors of pregnancy losses and improving of prevention of genetic diseases in Republic of Moldova" (institutional), Junior Scientific Researcher (funded by Academy of Science of Moldova).
- **2011-2013** - 12.819. 09.14F, "The association of frequent mutations in thrombophilia genes with pregnancy loss in the population of Moldova", laboratory assistant, (Project for Young Researchers, funded by Academy of Science of Moldova).
- **2013-2014** - Moldo-Romanian bilateral project: 07\RoF, „The NMR and chromatographic metabolic profiles of some body fluids and the food intake influence on the urine profile (METABOLOM)", in collaboration with "Petru Poni" Macromolecular Chemistry Institute of Romanian Academy, Iasi, Romania and Institute of Physiology and Sanocreatology of Academy of Science of Moldova, Chisinau, Moldova, laboratory assistant (funded by Academy of Science of Moldova and Romania).
- **2014-2015** - 14.819.04.07F, "Enlargement of mutations study in PAH gene at PKU Moldavian patients", Scientific Researcher (Project for Young Researchers, funded by Academy of Science of Moldova).
- **2015-2018** - 15.817.04.32A, "Evaluating determinant factors of morbidity and mortality through prevention of genetic diseases in the population of Moldova" (institutional), Junior Scientific Researcher (funded by Academy of Science of Moldova).
- **2016-2018** - Moldo-Romanian bilateral project: 6.80013.16.04.16/RO, „Increasing the capability of genetic and genomic research addressing perinatal and child development Junior Scientific Researcher (funded by Academy of Science of Moldova and Romania).
- **2017-2018** - 16.80012.04.33F, "The evaluation of Amino Acids and mutational profile of Homocystein metabolism genes in obese children." Junior Scientific Researcher (Project for Young Researchers, funded by Academy of Science of Moldova).

Scientific Conferences (International)

- **June 28-30, 2013 –** oral presentation to the VI conference "Moldovan neonatology days", Varatec, Romania, *„Phenylketonuria in Moldova - diagnosis by neonatal screening and molecular genetic analysis"*
- **May 23-24, 2014 –** poster presentation at the conference "Chimia 2014 – New trends in applied chemistry", Constanta, Romania, *„Fast NMR detection of urinary 2-oxoglutaric acid"*
- **May 31- June 3, 2014** – poster presentation at the European Human Genetics Conference, Milan, Italy. *"Association of VKORC1 gene polymorphisms with recurrent pregnancy losses in Moldavian women"*
- **April 18, 2015** - oral presentation at the international conference of young researchers "Fundamental sciences and clinical medicine: Man and Health", St. Petersburg, Russia, *"Enlargement of mutations study in PAH gene at PKU Moldavian patients"*
- **June 6-9, 2015** – poster presentation at the European Human Genetics Conference "ESHG 2015," Glasgow, UK, *"Molecular heterogeneity of PAH gene in PKU patients from Republic of Moldova"*
- **September 6-9, 2016** - attending to annual symposium SSIEM 2016, Rome, Italy, "*Mutation spectrum of PAH gene: A novel missense mutation identified in the Phenylketonuria patients from Republic of Moldova"*

- **May 27-30, 2017 –** electronic poster presentation at the European Human Genetics Conference "ESHG 2017," Copenhagen, Denmark, *"Prevalence of Q188R mutation in Classical Galactosemia patients from Republic of Moldova"*

Scientific Conferences (National)

- **November 23, 2012** - oral presentation to the 10th International Conference of Young Researchers, Chisinau, Moldova, *"The genetic Polymorphism in PAH gene at phenylketonuria moldavian patients"*
- **December 8, 2012** - seminar on the principles of searching and usage of information from bioinformatics databases, Chisinau, Moldova
- **February 13, 2013** - participation at the conference "Clinical and genetic aspects of asthma diagnosis and of hereditary diseases", Chisinau, Moldova.
- **July 15-22, 2013** - Summer School in Molecular Genetics, University Academy of Sciences of Moldova, Chisinau.
- **April 10, 2014** - oral presentation to International Scientific Conference "The future belongs to us", Fourth Edition, Chisinau, Moldova.
- **June 28-July 1, 2015** - poster presentation at the X International Congress of geneticists and breeders, Chisinau, Moldova, *"Phenylketonuria in Republic of Moldova- 25 years of research"*
- **February 29, 2016** - oral presentation at Scientific Conference "Rare Disease Day", First Edition, Chisinau, Moldova, *"Phenylketonuria in Moldova - from screening to prophylaxis"*
- **February 28, 2017** - oral presentation at Scientific Conference "Rare Disease Day 2017", Second Edition, Chisinau, Moldova, *"Diagnostic criteria in Galactozemia"*

Publications (Articles)

- **Boiciuc K.**, Uşurelu N., Străţilă M., Sacară V. *„Phenylketonuria in Moldova - diagnosis by neonatal screening and molecular genetic analysis"*. În: Patologa malformativă neonatală/ Maria Stamatin (coord), Petru Stratulat (coord) - Iaşi: Technopress ISBN 978-606-687-022-1, p.146-153, 2013.
- **Boiciuc K.**, N. Uşurelu, V. Sacară. *„Molecular-genetic analysis of PAH gene in patients with PKU in Moldova"*. Bulletin of the Academy of Science of Moldova. Medical Sciences ISSN 1857-0011 1(42), p. 227-232, 2014.
- Sirocova N., Scurtu V., **Boiciuc K.**, Dulap D., Badicean D., Usurelu N., Parii A., Munteanu A., Sacara V. *„The association of thrombophilic gene mutations common in pregnancy losses Moldovan population".* Bulletin of the Academy of Science of Moldova. Medical Sciences ISSN 1857-0011 1(42), p. 205-210, 2014.
- Hlistun V., Scurtu V., **Boiciuc C.**, Usurelu N., *"Folate and methionine cycle genes mutation in the women of recurrent pregnancy loss".* Perinatology bulletin ISSN 1810-5289 3(63), p. 39-43, 2014
- **Boiciuc K.**, Badicean D., Scurtu V., Uşurelu N., Sacară V., *"Hereditary thrombophilia factors in patients with recurrent pregnancy loss from Republic of Moldova"*. Perinatology bulletin ISSN 1810-5289 1(65), p. 61-68, 2015.

Publications (Abstracts)

- Usurelu N., Burgoci V., Halabudenco E., **Boiciuc K.**,Stratilă M. *"Phenylketonuria in Moldova-neonatal screening over 20 years"*. In: Buletin de perinatologie, Conferinţa a IV-a de Medicină Perinatală cu participare internaţională, 13-14 octombrie 2011, nr.3(51)-4(52), 2011. p. 203.

- Usurelu N., Burgoci V., **Boiciuc K.**, Halabudenco E., Stratila M. *"Phenylketonuria in Moldova-neonatal screening about 20 years"*. Orvosi Hetilap, The 8th ISNS European Neonatal Screening Regional Meeting, 4-6 November, 2012, Budapest, Hungary. p.17

- Uşurelu N., Hadjiu S., Stamati A., **Boiciuc K**., Magdei C., Sacară V., Garaeva S., Nicolescu A., Deleanu C., Tarcomnicu I., Plaiasu V., Stambouli D., Szonyi L. *"Maladiile metabolice ereditare precăutate în epilepsia cu debut precoce"*. In: XXVIth National Conference with international participation "The "N. N. Trifan" Pediatric Days Iasi", 2013, April 16-19. Abstract book.

- **Boiciuc K.,** Burgoci V., Sacara V. *"The genetic Polymorphism in PAH gene at phenylketonuria moldavian patients"*. Abstracts book from 10th International Conference of Young Researchers p 20, November 23, 2012.

- **Boiciuc K**., Usurelu N., Sacara V. *"MTHFR, MTR and MTRR polymorphism in Moldavian patients with phenylketonuria"*. In European Journal of Human Genetics, vol. 21, suppl. 2, Juine 2013, European Human Genetics Conference, June 8 – 11, 2013, Paris, France. p. 517-518. ISBN: 1018-4813.

- Plingau E., Sirocova N., **Boiciuc K.**, Usurelu N., Gatcan S., Sacara V., Duca M. *"Association of VKORC1 gene polymorphisms with recurrent pregnancy losses in Moldavian women"*. In European Journal of Human Genetics, vol. 22, suppl. 1, May 2014, European Human Genetics Conference, May 31 - June 3, 2014, Milan, Italy. P01.124-M, p. 77. ISBN: 1018-4813.

- **Boiciuc C.,** N. Uşurelu, V. Sacară. *"Association study of 844ins68 CBS gene mutation in patients with PKU from Republic of Moldova"*. European Journal of Human Genetics, vol. 22, suppl. 1, May 2014, European Human Genetics Conference, May 31 - June 3, 2014, Milan, Italy. J06.11, p. 414-415. ISBN: 1018-4813.

- Uşurelu N., Nicolescu A., **Boiciuc C**., Dulap D.D. *„The mangement of methylmalonic acidemia caused bz cdID defect".* Journal of Inherited Metabolic Disease, vol. 37, supl.1, p.91, 2014

- **Boiciuc K**., Badicean D., Scurtu V., Usurelu N., Sacara V., "*Enlargement of mutations study in PAH gene at PKU Moldavian patients"*, International conference of young researchers "Fundamental sciences and clinical medicine: Man and Health", St. Petersburg, Russia (Abstract book), p. 256, 2015

- **Boiciuc K**., Badicean D., Scurtu V., Usurelu N., Sacara V., "*Molecular heterogeneity of PAH gene in PKU patients from Republic of Moldova"*. European Journal of Human Genetics, vol. 23, suppl. 1, p. 142, 2015

- Badicean D., **Boiciuc K**., Usurelu N., Parii A., Sacara V., *"Hereditary thrombophilia as one of the cause of pregnancy losses in Moldavian women"*. European Journal of Human Genetics, vol. 23, suppl. 1, p. 371, 2015

- Hlistun V., Usurelu N., Egorov V., **Boiciuc K**., Parii A., Sacara V., "*Association of folate, methionine, cycle genes and second phase of xenobiotic's detoxification genes in moldavian women with pregnancy losses"*. European Journal of Human Genetics, vol. 23, suppl. 1, p. 368, 2015

- Hlistun V., Uşurelu N., Egorov V., **Boiciuc C**., Parii A., Muntean A., Racilă V., Sacară V. *"Assessement of* GSTM1, GSTT1, *GSTP1 and* MTHFR *polymorphisms in pregnancy losses in Moldova"*. The Xth International Congress of Geneticists and Breeders. Abstract Book, p. 48, 2015.

- Badicean D., **Boiciuc K**., Hlistun V., Usurelu N., Sacara V. *„The most common mutations in PAH gene and efectivenes of their screening in moldavian population"*. The Xth International Congress of Geneticists and Breeders. Abstract Book, p. 30, 2015.

- **Boiciuc K.,** Hlistun V., Rotari N., Badicean D., Sacara V., Usurelu N. *„Phenylketonuria in Republic of Moldova- 25 years of research"*. The Xth International Congress of Geneticists and Breeders. Abstract Book, p. 37, 2015.

- Darii M., **Boiciuc K.,** Barbova N., Sacara V. *„Molecular genetic analysis of CFTR gene in Cystic fibrosis patients from Republic of Moldova"*. The Xth International Congress of Geneticists and Breeders. Abstract Book, p. 40, 2015.

- **Boiciuc K.,** Badicean D., Hlistun V., Sacara V., Usurelu N. *"Hereditary thrombophilia factors in patients with recurrent pregnancy loss from Republic of Moldova"*. Romanian Journal of Rare Diseases. Supplement 1/2015, p.23. ISSN 2068-5882, 2015.

- Hlistun V.; Usurelu N.; V. Egorov; Grosu I.; **Boiciuc C.**; Parii A.; Muntean A.; Sacara V. *"Genetic polymorphism in FV, FII, MTHFR, MTR and MTRR genes in couples with recurrent pregnancy loss from Republic of Moldova",* European Journal of Human Genetics, 2015.

- **Boiciuc C.;** Gemperle-Britschgi C.; Sato D.; Rimann N.; Badicean D.; Blanita D.; Hlistun V.; Sacara V.; Thony B.; Usurelu N.; *"Spectrum of PAH variants in phenylketonuria patients from the Republic of Moldova and identification of a novel p.M1T missense allele",* Journal of Inherited Metabolic Disease, vol. 39, supl.1, A-020, p.215, 2016.

- **Boiciuc C**.; Nicolescu A.; Blanita D.; Sacara V.; Tarcomnicu I.; Stambouli D.; Balogh L.; Szönyi L.; Deleanu C.; Usurelu N.; *"Prevalence of Q188R mutation in Classical Galactosemia patients from Republic of Moldova"* European Journal of Human Genetics (Abstract Book), 2017.

- Blanita D., Sacara V., **Boiciuc C.,** Hlistun V., Grosu I.; Dorif A.; Morava E.; Lefeber D.; Wevers R.; Usurelu N.; *"The variability of screening criteria in Congenital Disorders of glycosilation"*. Romanian Journal of Rare Diseases. Supplement 2, p.24-25, 2017.