

## BAGHDASARYAN NAIRA

### Biographical

<b>Information:</b>	<i>First Name</i>	Naira
	<i>Family Name</i>	Baghdasaryan
	<i>Date of Birth</i>	23.10.1978
	<i>City of Birth</i>	Yerevan
	<i>Country of Birth</i>	Armenia
	<i>Marital Status</i>	Married
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	<i>Name of institution</i>	UNESCO Chair in Life Sciences International Postgraduate Educational Centre www.biophys.am

### Academic Information:

**2013: PhD** in biology - *“WATER AS A TARGET IN THE PROCESS OF BIOLOGICAL EFFECT OF PHYSICAL FACTORS HAVING NON-IONIZING CHARACTER”*

**2008-2012:** PhD student in UNESCO Chair in Life Sciences International Postgraduate Educational Centre, Department of Biophysics

**1997-2002:** Armenian State Pedagogical University af. Khachatur Abovian, Department of **Biology** and **Chemistry**

### Work Experience:

**2019-present:** Regulatory Affairs Specialist in FMD K&L Europe;

**2008-present:** Head of Radioisotope Laboratory in UNESCO Chair in Life Sciences International Postgraduate Educational Centre;

**2008-present:** Senior researcher in UNESCO Chair in Life Sciences International Postgraduate Educational Centre, Department of Biophysics;

**2007-2008:** Researcher in Armenian State Agrarian University of Yerevan, Department of life stoke-breeding;

**2005-2008:** Scientific researcher in UNESCO Chair in Life Sciences International Postgraduate Educational Centre, Department of Biophysics;

**2005-2006:** Lecturer of Anatomy and Genetics at Medical College after Akunts.

**2004-2008:** Teacher Biology and chemistry at Gitarshav high school;

**2002-2003:** Teacher of Biology at elementary school N92.

**Native and Foreign Language Information:**

Native language:	Armenian
Foreign languages:	Russian, English, French

## Articles

1. Gohar Madoyan, Arevik Azizyan, Naira Eloyan, Gohar Musheghyan, **Naira Baghdasaryan** and Sinerik Ayrapetyan. (2019) *The Brain and Heart Muscle Tissue Hydration Sensitivity to Painless and Painful Hot Plate Heating of Rats*. Global Journal of Forensic Science & Medicine Volume 1-Issue 2, 1-7 pages.
2. K.S. Ohanyan, H.G. Badalyan, **N.S. Baghdasaryan** (2018) “*Water clusters in semiconductor detectors with amorphous carbon/crystalline silicon heterostructures as capturing or scattering centers for free charged particles*” SSRG – IJAP, Volume 5, Issue 3, pages 7-10
3. **Naira Baghdasaryan**, Gohar Musheghyan, Zhenik Chobanyan, Sinerik Ayrapetyan, “*Na<sup>+</sup>/Ca<sup>2+</sup> EXCHANGER AS A TARGET FOR STATIC MAGNETIC FIELD*”, World Science 5(33), vol. 3, 5-11, 2018
4. H. Badalyan, **N. Baghdasaryan**, K. Ohanyan, M. Stepanyan, A. Kishmiryan (2016) “*Dependence of Erythrocyte Shape Parameter on the Low Dose  $\gamma$ -Irradiation*”. Armenian Journal of Physics, vol. 9, issue 1, pp. 95-99
5. **Baghdasaryan N.S.**, Mikayelyan Y.R., Nikoghosyan A.K., Ayrapetyan S.N, “*The Impact of Background Radiation, Illumination and Temperature on EMF-Induced Changes of Aqua Medium Properties*”. Electromagnetic biology and medicine 32(3):390-400, 2013
6. Martirosyan V., **Baghdasaryan N.**, Ayrapetyan S., “*Bidirectional Frequency-Dependent Effect of Extremely Low-Frequency Electromagnetic Field on E. coli K-12*”. Electromagnetic Biology and Medicine 32(3):291-300, 2013
7. Martirosyan V., **Baghdasaryan N.**, Ayrapetyan S., “*The Study of the Effects of Mechanical Vibration at Infrasound Frequency on [3H]-Thymidine Incorporation into DNA of E. coli K-12*”. Electromagnetic Biology and Medicine 32(1):40-47, 2013
8. Dadasyan E., Ayrapetyan G., **Baghdasaryan N.**, Mikayelyan Y., Ayrapetyan S., “*The Metabolic Pathway of 4Hz Mechanical Vibration-Induced Effect on Snail Heart Muscle Contractility*”. Environmentalist 32(2):166-174, 2012
9. Mikayelyan Y., **Baghdasaryan N.**, Nikoghosyan A., Barseghyan S., Ayrapetyan S., “*The EMF-Induced Changes in Aqua Medium's Properties Depend on Background Ionizing Radiation, Illumination and Temperature*”. The Environmentalist 32(2):179-187, 2012
10. **Baghdasaryan N.**, Mikayelyan Y., Barseghyan S., Dadasyan E., Ayrapetyan S. “*The Modulating Impact of Illumination and Background Radiation on 8Hz-Induced Infrasound Effect on Physicochemical Properties of Physiological Solution*” Electromagnetic Biology and Medicine 31(4):310-319, 2012
11. **Naira Baghdasaryan**, Yerazik Mikayelyan, Sedrak Barseghyan, Erna Dadasyan, Sinerik Ayrapetyan. “*The density-dependency of dark and low background radiation effects on water and water solution properties*”, Electromagnetic biology and medicine, 31(01): 87-100, 2012

12. Gayane Ayrapetyan, Hovik Hayrapetyan, Erna Dadasyan, Sedrak Barseghyan, **Naira Baghdasaryan**, Erazik Mikayelyan, Sinerik Ayrapetyan. *"The Non Thermal Effect of Weak Intensity Millimeter Waves on Physicochemical Properties of Water and Water Solutions"*, [Electromagnetic Biology and Medicine](#), **28**:331 – 341, 2009

### Chapters in Books

1. Ayrapetyan S., **Baghdasaryan N.** Mikayelyan Y., Barseghyan S., Martirosyan V., Heqimyan A., Narinyan L., Nikoghosyan A., *"Cell hydration as a Marker for Nonionizing Radiation"* In: M. Markov (Ed.) *Electromagnetic Fields in Biology and Medicine*, USA, CRC Press, pp. 193-215, 2015
2. **Baghdasaryan N.S.**, Ayrapetyan S. N. *"The effect of SMF, EHPP and Hydrogen peroxide on the development of yeasts"*. In: *BIOELECTROMAGNETICS: Current Concepts*, S. Ayrapetyan and M. Markov, eds., NATO Science Series, Springer Press, the Netherlands, pp: 391-396, 2006.

### Patents

1. Sargsyan G.P., Sargsyan A.G., **Baghdasaryan N.S.**, Badalyan H.G., Khlebopros R.G., et all., *"The method of early diagnosis and prediction of the outcome of acute radiation injury"* RF Patent N251399, 2014
2. **Baghdasaryan N** and Ayrapetyan S. *"A new method for activation of bovine post-thawed sperm velocity"*, AM Patent N2352 A, 2010

### Conferences and Trainings

1. **Naira Baghdasaryan.** *«The effect of non-ionizing radiation on biological systems. Non-thermal effect»*. International Workshop on Influence of electromagnetic radiation on human beings, and problem of understanding September 17 - 19, 2018 Yerevan State University
2. **N. Baghdasaryan.** *Na<sup>+</sup>/K<sup>+</sup> pump-independent effect of low doses of ouabain.* The Inaugural Workshop of UNITWIN Network on PhD Education and Research in Biophysics, Biotechnology and Environmental Health, 6-8 August, 2018 Garni, ARMENIA
3. **Short training course** in artificial insemination company **"Viking Genetics"** in Denmark, for conducting biotechnological experiments and exchanging experience in the field of artificial insemination, September 19-22, 2016
4. **N. Baghdasaryan,** *"Peroxide formation in cell aqua medium as a primary messenger for biological effect of environmental factors"*, The 9th EMF International Workshop *"Bioelectromagnetics and Water Science to Aid Environmental Health Defence In collaboration with International Society for Neurochemistry"* 6-9 September, 2016, Armenia, Garni
5. Sargsyan G.P, Sargsyan A.G., **Baghdasaryan N.S.**, Martrosyan A.A., Khlebopros R.G. *"Evaluation of the degree of dispersity of erythrocyte sizes by means of laser diffractometry"*. XVII "Modeling of non-equilibrium systems - 2014" RF, Krasnoyarsk 3-5 October, 2014

6. Sargsyan G.P., **Baghdasaryan N.S.**, Sargsyan A.G., Khlebopros R.G. “*On the possible mechanisms of red blood cells shaped indicators changes under the influence of ionizing radiation*” 15th All-Russian seminar "Modeling of nonequilibrium systems - 2012", RF Krasnoyarsk 5-7 October, 2012
7. **Baghdasaryan Naira.** “*The Density-Dependency of Dark and Low Background Radiation Effects on Water and Water Solution Properties*”, The sixth annual conference on the physics, chemistry and biology of water 2011, Vermont, USA October 20-23, 2011
8. Yerazik Mikayelyan, **N. Baghdasaryan**, A. Nikoghosyan, S. Barseghyan. “*The Modulating Effect of Background Ionizing Radiation, Illumination and Temperature on EMF-induced Changes of Aqua Solution Physicochemical Properties*”, UNESCO/ ONRG/ EOARD/NFSAT workshop "The impact of EMF and infrasound at higher background ionizing radiation, Tsakhkadzor, Armenia, October 12-15, 2011
9. **N. Baghdasaryan** and S. Ayrapetyan. “*The Metabolic Mechanism of Biological Effect of Infrasound*”, UNESCO/ ONRG/ EOARD/NFSAT workshop "The impact of EMF and infrasound at higher background ionizing radiation, Tsakhkadzor, Armenia, October 12-15, 2011
10. Mikayelyan Y.R., Barseghyan S.V., **Baghdasaryan N.S.**, Ayrapetyan S.N. “*Effects of Extremely Low Frequency Electromagnetic Fields on Hydrogen peroxide formation in Physiological Solution*”, 2nd International Biophysics Congress and Biotechnology at GAP & 21st National Biophysics Congress, Diyarbakir-Turkey. 5-9 October 2009
11. **Naira Baghdasaryan**, Sinerik Ayrapetyan. “*THE FREQUENCY-DEPENDENT EFFECT OF INFRASOUND ON BULL SPERM MOTILITY*”, 2-nd World Conference of Magic Bullets (Ehrlich II), October 3-5, Nurnberg, Germany, 2008
12. **Naira Baghdasaryan**, Erazik Mikayelyan, Sinerik Ayrapetyan. “*The effect of extralow intensity of physical factors on H2O2 formation in distilled water and physiological solution*”. UNESCO/WHO/ONRG SEMINAR, ELECTROMAGNETIC FIELDS: MECHANISMS OF ACTION AND HEALTH EFFECTS, Yerevan, Armenia, 24-26 October, 2008.
13. **Baghdasaryan N. S.**, Ayrapetyan S. N. “*Non-thermal effect of extremely high power pulses yeast growth*”, In: Proceeding of UNESCO/WHO/IUPAB Seminar “Molecular and Cellular Mechanisms of Biological Effects of EMF” and NATO Advanced Research Workshop on “The Mechanisms of the Biological Effect of Extra High Power Pulses”, Noyan Tapan Press. pp 101-102, 2005

## Grants

1. Participation in **ISTC** Project A-2089, “*Development of a new effective method for monitoring environmental state by investigating changes in biological membrane structures in a post-radiation period after an accident at nuclear power plant (NPP)*” 2014-2017
2. **NFSAT** travel grant, 2011
3. Participation in **ISTC** Project A-1592P, “*The comparative study of the effects of extremely low frequency electromagnetic fields and infrasound on water molecule dissociation and generation of reactive oxygen species*” 2009-2011