

## BIOGRAPHICAL SKETCH

<b>Provide the following information for each individual included in the Research &amp; Related Senior/Key Person Profile (Expanded) Form.</b>													
NAME Baghdasaryan Naira S., PhD	POSITION TITLE Head of “Cell Biophysics” group in UNESCO Chair in Life Sciences International Postgraduate Educational Centre (LSIPEC)												
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training).													
INSTITUTION AND LOCATION	DEGREE (IF APPLICABLE)	YEAR(S)	FIELD OF STUDY										
Armenian State Pedagogical University af. Khachatur Abovian, Armenia	<b>Master of Sciences</b>	1997-2002	Biology										
Life Sciences International Postgraduate Educational Centre, Department of Biophysics, Armenia	<b>PhD</b>	2002-2006	Cell Biophysics										
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><i>Country of Citizenship</i></td> <td>Republic of Armenia</td> </tr> <tr> <td><i>Address</i></td> <td>Yeghbayrutyan 13/1, Yerevan, Armenia 0039</td> </tr> <tr> <td><i>Phone Number</i></td> <td>(+374 10) 421951</td> </tr> <tr> <td><i>Mobile Phone Number</i></td> <td>(+374 55) 883685</td> </tr> <tr> <td><i>E-Mail-Address</i></td> <td><a href="mailto:arian_serg@yahoo.com">arian_serg@yahoo.com</a>, <a href="mailto:naira.baghdasaryan@biophys.am">naira.baghdasaryan@biophys.am</a></td> </tr> </table>				<i>Country of Citizenship</i>	Republic of Armenia	<i>Address</i>	Yeghbayrutyan 13/1, Yerevan, Armenia 0039	<i>Phone Number</i>	(+374 10) 421951	<i>Mobile Phone Number</i>	(+374 55) 883685	<i>E-Mail-Address</i>	<a href="mailto:arian_serg@yahoo.com">arian_serg@yahoo.com</a> , <a href="mailto:naira.baghdasaryan@biophys.am">naira.baghdasaryan@biophys.am</a>
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<i>E-Mail-Address</i>	<a href="mailto:arian_serg@yahoo.com">arian_serg@yahoo.com</a> , <a href="mailto:naira.baghdasaryan@biophys.am">naira.baghdasaryan@biophys.am</a>												
<b>Career/Employment</b>													
<ul style="list-style-type: none"> <li>• <b>2002-2003:</b> N 91 secondary school, Yeravan, Armenia, as teacher of Biology.</li> <li>• <b>2004-2009:</b> “Gitarshav’ secondary school, Yerevan Armenia, as a teacher of biology, chemistry and first aid.</li> <li>• <b>2007-2008:</b> Armenian State Agrarian University of Yerevan, Department of life stoke-breeding, as a researcher.</li> <li>• <b>2002-present:</b> UNESCO Chair in Life Sciences International Postgraduate Educational Centre, Department of Biophysics, as scientific researcher.</li> <li>• <b>2007-present:</b> Head of isotope laboratory, Head of “Cell Biophysics” group in UNESCO Chair in Life Sciences International Postgraduate Educational Centre.</li> </ul>													
<b>Conferences</b>													
<ol style="list-style-type: none"> <li>1. <b>Baghdasaryan Naira.</b> “<i>The Density-Dependency of Dark and Low Background Radiation Effects on Water and Water Solution Properties</i>”, The sixth annual conference on the physics, chemistry and biology of water 2011, Vermont, USA October 20-23, 2011.</li> <li>2. Yerazik Mikayelyan, <b>N. Baghdasaryan</b>, A. Nikoghosyan, S. Barseghyan. “<i>The Modulating Effect of Background Ionizing Radiation, Illumination and Temperature on EMF-induced Changes of Aqua Solution Physicochemical Properties</i>”, UNESCO/ ONRG/ EOARD/NFSAT workshop “The impact of EMF and infrasound at higher background ionizing radiation, Tsakhkadzor, Armenia, October 12-15, 2011.</li> <li>3. <b>N. Baghdasaryan</b> and S. Ayrapetyan. “<i>The Metabolic Mechanism of Biological Effect of Infrasound</i>”, UNESCO/ ONRG/ EOARD/NFSAT workshop “The impact of EMF and infrasound at higher background ionizing radiation, Tsakhkadzor, Armenia, October 12-15, 2011.</li> </ol>													

## BIOGRAPHICAL SKETCH

4. 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.
5. **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
6. **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
7. **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
8. **Baghdasaryan N. S.** Ayrapetyan S.N. “*The effect of extremely high power pulses-treated wort on growth and development of yeasts*”, The Bioelectromagnetics Society (BEMS) 26th Annual Meeting. Washington D.C. USA. p 20 (P-C-81), 2003
9. S. Hakobyan, **N. Baghdasaryan**, A. Amyan, S.N. Ayrapetyan. “*The Effect of EMF on Water Specific Electrical Conductivity and Wheat Sprouting*”, WHO Meeting on EMF Biological Effects and Standards Harmonization in Asia and Oceania, Korea, pp. 123-124, 2001

### Selected Peer-Reviewed Publications

1. Ayrapetyan S., Baghdasaryan N. Mikayelyan Y., Barseghyan S., Martirosyan V., Heqimyan A., Narinyan L., Nikoghosyan A. (2015) Cell hydration as a Marker for Nonionizing Radiation, In: M. Markov (Ed.) Electromagnetic Fields in Biology and Medicine, USA, CRC Press, pp. 193-215 DOI: 10.1201/b18148-1
2. **Baghdasaryan NS**, Mikayelyan YR, Nikoghosyan AK, Ayrapetyan SN. The impact of Background radiation, Illumination and Temperature on EMF-induced changes of aqua medium properties", Electromagnetic biology and medicine, accepted for publication, **2013**
3. Y.R. Mikayelyan, **N.S. Baghdasaryan**, A.K. Nikoghosyan, S.V. Barseghyan, S.N. Ayrapetyan. "The EMF-induced changes in aqua medium's properties depend on background ionizing radiation, illumination and temperature", The Environmentalist, 32(2):179-187, **2012**
4. Martirosyan V., **Baghdasaryan N.**, Ayrapetyan S. The study of the effects of extremely low frequency electromagnetic field on [3H]-thymidine incorporation into DNA of E. coli K-12. Electromagnetic biology and medicine journal, accepted for publication, **2012**, <http://informahealthcare.com/eprint/MU8QIBDvvAWmntCAwDA5/full>
5. 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, accepted for publication, **2012**, <http://informahealthcare.com/eprint/nrAnVZGX3x4cIPfMjWfS/full>
6. **Baghdasaryan N.**, Mikayelyan Y., Barseghyan S., Dadasyan E., Ayrapetyan S. The density-dependency of dark and low background radiation effects on water and water solution properties, Electromagnetic biology and medicine, 31(01): 87-100
7. Dadasyan E., Ayrapetyan G., **Baghdasaryan N.**, Mikayelyan Y., Ayrapetyan S. The

## BIOGRAPHICAL SKETCH

metabolic pathway of 4Hz infrasound effect on snail heart muscle contractility, *The Environmentalist*, 32(2): 166-174, **2012**

8. **Baghdasaryan N.**, Mikayelyan Y., Barseghyan S., Dadasyan H., Ayrapetyan S. N. The modulating impact of illumination and background radiation on 8Hz-induced infrasound effect on physicochemical properties of physiological solution, *Electromagnetic Biology and Medicine*, accepted for publication, **2012**
9. Ayrapetyan G., Hayrapetyan H., Dadasyan E., Barseghyan S., **Baghdasaryan N.**, Mikayelyan Y., Ayrapetyan S. 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**
10. **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

10. **Baghdasaryan N** and Ayrapetyan S. “*A new method for activation of bovine post-thawed sperm velocity*”, AM Patent N2352 A, 2010

### Grants

1. NFSAT travel grant, October, 2011
2. 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