

## BIOGRAPHICAL SKETCH

<b>Provide the following information for each individual included in the Research &amp; Related Senior/Key Person Profile (Expanded) Form.</b>			
NAME Armenuhi Heqimyan, PhD	POSITION TITLE – Senior Staff Researcher , Head of “Neurophysiology” Group in Life Sciences International Postgraduate Educational Center (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
Yerevan State Medical University, Department of Pediatrics, Armenia	Master of Sciences	1966 – 1972	Pediatrics
Orbeli Institute of Physiology of Armenian NAS, Armenia	PhD of Medical Sciences	1981	Neuroscience
<p>Barbus str., home 16/1, 0028 Yerevan, Armenia Telephone: (+ 374 10 261943) e-mail: <a href="mailto:harmik05@rambler.ru">harmik05@rambler.ru</a>, <a href="mailto:armenuhi.heqimyan@biophys.am">armenuhi.heqimyan@biophys.am</a> Date of birth: 14.05.1949 Nationality: Armenian</p> <p><b>Career/Employment</b></p> <p><b>1973-1976</b> - Physician in Country Medical Area, Talin and Masis regions, Armenia  <b>1977-1987</b> - PhD student in Orbeli Institute of Physiology of Armenian NAS  <b>1988-2004</b> - Senior researcher in Institute of Applied Problems of Physics, Armenian NAS  <b>2006-at present</b> - Senior researcher, Head of Neurophysiology Group in UNESCO Chair-Life Sciences International Postgraduate Educational Center</p> <p><b>CONFERENCES</b></p> <ol style="list-style-type: none"> <li>1. Deghoyan, A; <b>Heqimyan, A</b>; Mikaelyan, Y; Nikogosyan, A; Ayrapetyan,S. <b>“The Extra- and Intracelular Water as a Target for Non-Thermal Biological Effect of Millimeter Waves”</b>. A Multidisciplinary Research Journal West Dover, Vermont October 22-25, 2009</li> <li>2. <b>Heqimyan A.</b> and Nikoghosyan A. <b>"The Mechanism of Age Dependent Magnetosensitivity of Brain Tissue"</b> 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

### Selected Peer-Reviewed Publications

1. Harutiunian-Kozak B., **Heqimyan A.**, Dec K., Grigorian G. **1981** The structure of visual receptive fields of cat's pulvinar neurons. *Acta Neurobiol.Exp.*, 41, 127-147.
2. Harutiunian-Kozak B., Hekimian A., Grigorian G., (1985) Response of cat's dorsal hippocampal neurons of area CA 1 on visual stimuli. *Neurofiziologia*, 17, 779-786. (in russian)
3. Kazarian A, Hekimian A., Harutiunian-Kozak B., Grigorian G. **1991** Structure of receptive fields of hippocampal visually sensitive neurons. *Neurofiziologia*, 23, 160-167.(in russian)
4. Kazarian A., **Heqimyan A.**, Harutiunian-Kozak B., Grigorian G., Kozak J.A., Markarian T. **1994** Responses of Cat's Dorsal Hippocampal Neurons to Moving Visual Stimuli. *Acta Neurobiol. Exp.*, 55, 99-107.
5. Harutiunian-Kozak B., **Heqimyan A.**, Dec K., Kazarian A., Kozak J.A. **1996** Spatial Organization of Receptive Fields of Cat's Hippocampal Visually Driven Neurons. *Acta Neurobiol.Exp.*, 56, 873-890.
6. Harutiunian-Kozak B., Hekimian A., Kazarian A., Dec K., Kozak A., Grigorian G. **(1996)** Spatial organization and configuration of lateral geniculate nucleus neurons. *Neurofiziologia*, 28, 77-81.(in russian)
7. Harutiunian-Kozak B., Khachvankian D., Hekimian A., Kozak A., Martirosyan L., Vagramyan Z., Bagdasaryan E. **(2002)** Properties of visually sensitive neurons of 21b associative region of cat's brain. *Neurofiziologia*, 34, 434-444. (in russian)
8. Deghoyan A., **Heqimyan A.**, Mikaelyan Y., Nikoghosyan A., Ayrapetyan S. **2009** The Extra- and Intracellular Water as a Target for Non-Thermal Biological Effect of Millimeter Waves. Fourth Annual Conference on the Physics, Chemistry and Biology of Water. October 22-25, 2009 West Dover, Vermont.
9. **Heqimyan A.**, Deghoyan A, Ayrapetyan S. **2011**. Ketamine-induced cell dehydration as a mechanism of its analgesic and anesthetic effects. *Journal of International Dental and Medical Research*. 1:42-49.
10. **Heqimyan A.**, Narinyan L., Nikoghosyan A., Deghoyan A., Yeganyan L., Ayrapetyan S. **2012**. Age Dependency of High-affinity Ouabain Receptors and their Magnetosensitivity. *The Environmentalist* 32(2): 228-235.
11. Deghoyan A, **Heqimyan A.**, Nikoghosyan A, Dadasyan E, Ayrapetyan S. **2012** Cell Bathing Medium as a Target for Non Thermal Effect of Millimeter Waves. *Electromagnetic Biology and Medicine*. 32: 132–142.
12. Ayrapetyan S., **Heqimyan A.** and Nikoghosyan A. **2012**. Age-Dependent Brain Tissue Hydration, Ca Exchange and their Dose- Dependent Ouabain Sensitivity Bioequivalence & Bioavailability. 4(5): 060-068. <http://www.omicsonline.org/0975-0851/JBB-04-060.php>
13. Ayrapetyan S., **Heqimyan A.**, Deghoyan A. **2013**. Cell Dehydration as a Mechanism of Ketamine Analgesic and Anesthetic Effects *J Bioequiv Availab* Volume 5(3): 136-141.<http://dx.doi.org/10.4172/jbb.1000148>
14. Deghoyan A., Nikoghosyan A., **Heqimyan A.**, Ayrapetyan S. **2014**. Age-dependent Effect of Static Magnetic Field on Brain Tissue Hydration. *Electromagnetic biology and medicine*. 33 (1): 58-67.
15. Ayrapetyan S., Baghdasaryan N. Mikaelyan Y., Barseghyan S., Martirosyan V., **Heqimyan A.**, Narinyan L., Nikoghosyan A. **2015**. Cell Bathing Medium as a Primary Target and Cell Hydration as a Universal Biomarker for Biological Effects of Non-ionizing radiation (NIR). *Electromagnetic Fields in Medicine and Biology*. Edited by M.Markov. chapter 13, 193-216.

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16. **Heqimyan A.**, Narinyan L., Nikoghosyan A., Ayrapetyan S. **2015**. Age-dependent Magneto-sensitivity of Rats' Brain Cortex and Heart Muscle Tissues. Electromagnetic Fields in Medicine and Biology. Edited by M.Markov. chapter 14, 217-230.