

QUESTIONNAIRE

(*) – mandatory fields

	Details about organisation
* Organisation name	Institute of Molecular Biology NAS RA
Organisation acronym	IMB
* Organisation Activity Type (RES - Research, HE - University, SME - Small and Medium Enterprise, IND - Industry, OTH - Other)	RES
* Keywords of main research areas	molecular and cellular biology, molecular immunology, molecular modeling, genetics and ecology of populations
* Head of organisation (first name, family name)	Anna Boyajyan
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* Description of organisation and its research achievements for the last five years (~ 5000 signs)
<p>IMB was founded in 1966 to encourage development of molecular biology in Armenia. The research conducted in IMB in 70-90 years of XX century had a significant input in the elucidation of structural and functional organization of nucleic acids, proteins, cells, and cellular organelles.</p> <p>Current research activities of IMB are focused on investigation of regulatory mechanisms of cell activity and alterations in cell activity in a number of pathologic conditions including autoimmune, infectious, inflammatory, oncological, and psychiatric disorders. The research includes human, animal and cell-cultures studies on genetic, cellular, membrane, sub-cellular and immune-system levels.</p> <p>Application areas of the research include molecular diagnostics and prognostics of diseases, and new drug design. IMB holds several patents related to new bioactive compounds.</p> <p>Today IMB has 12 research laboratories, including Cell activity regulation, Cell biology, Computation biology, Cytology, Electron microscopy, Genetics & ecology of populations, Human genetics, Macromolecular complexes, Molecular enzymology, Molecular & cellular immunology, Molecular genetics and Molecular membranology.</p> <p>The institute has cell culture bank and collection of human DNA samples obtained from patients with stroke and schizophrenia.</p> <p>IMB is in close collaboration with national educational and research organizations and internationally acknowledged scientific centres including Oxford University,</p>

Palacky University (Czech Republic), University of California of San-Francisco (USA), National Institute of Mental Health (USA) Rowett Research Institute (UK), Institute of Chemical Biology RAMS (Russia) and some other.

For decades IMB is hosting many prospective young scientists, under- and postgraduates and post-Docs. Dedicated researchers supervise graduate and undergraduate national and foreign students interested in molecular and cellular biology research. Currently 1/3 of the IMB staff is representing by young scientists.

On the basis of IMB are operating the Department of Biotechnology of the International Scientific and Educational Centre NAS RA providing master degree course in Biotechnology and Department of Molecular and Cellular Biology and Medicine providing lectures and trainings on advance methods of biomedical research for students of Biomedical Faculty of the Armenian-Russian State University.

	Contact Information
* Contact person (first name, family name)	Anna Boyajyan
* Department / Laboratory	Macromolecular Complexes
* Position	Head of Laboratory
* Qualification and research experience	PhD, DrSci., Prof. (molecular and cellular biology)
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International co-operation / Participation in EU RTD programmes or other bilateral / multilateral actions
INTAS, TACIS, TEMPUS, COST, EUREKA, other RTD programmes (please specify programme/s, project title/s and year/s)
<ul style="list-style-type: none"> • INTAS (YSF-0110) “Complement system dysfunction in schizophrenia disorder”, 2002 -2003 • INTAS (YSF-0046) “Chemokines upregulation in ischemic stroke”, 2003-2004 • ISTC (# CSP-42) “Communication supporting project”, 2007-2009. • ISTC (#A-1055) “The role of intestinal microflora in the pathogenesis of familial Mediterranean fever”, 2005-2008. • ISTC (#A-676) “Pollution level estimation of water reservoirs in Armenia based on the analysis of zooplankton. Regional monitoring and management”, 2003-2005. • USDS (#G68430184) “Inflammatory immune response and blood brain barrier dysfunction in human ischemic stroke progression”, 2007. • USDS/NIH (#G68430064/HHSN271200700340P) “RP-C4-CYP21-TNX modular complement C4 genotypes in schizophrenia”, 2006-2009. • Royal Society (#FSU/JP) “Involvement of complement system in pathogenesis of stroke”, 2003-2006. • CRDF (AB1-2308) “Regulation of PKC recruitment to the T cell immunological synapse and its activation by lipid second messengers”, 2002-

- 2004
- CRDF (AB1-3206) "Utility of black flies in identifying centers of aquatic diversity & freshwater impairment", 2002-2004.
 - CRDF (AB1-2009) "Biodiversity and Taxonomy of the Black Flies of Armenia and Karabagh", 2000-2002.

	* Please, use "X" to indicate the scientific area/s of your potential project
CHEMISTRY	
SOCIAL AND HUMAN SCIENCES	
ECONOMIC SCIENCES	
ENGINEERING SCIENCE	
ENVIRONMENT	X
AGRICULTURE AND FOOD	
HEALTH	X
MATHEMATICS	
INFORMATION SCIENCE	
PHYSICS	
NANOTECHNOLOGIES	X
ENERGY	
TRANSPORT	
SPACE	

*** Summary of potential research project envisaged hosting of European researcher for the period of between 1 and 2 years**

Title: Population aging and related diseases: from molecular pathomechanisms to integrative and preventive therapy.

The overall objectives of the project are focused on investigation of regulatory mechanisms of cell activity and alterations in cell activity upon aging. A special attention is paid on aging-associated diseased conditions including cerebro-vascular, oncological and neurodegenerative disorders, aging-associated immune system dysfunction, dysfunction of cell-signalling (signal transduction) systems and aberrant apoptosis. Methodological approaches include large-scale functional genomics and proteomics study in humans, animal models and cell culture models.

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	Please, confirm your agreement on data publication and dissemination
I agree with the publication of the data on the web-site http://www.inco-ecca.net , and dissemination among Mobility National Contact Points of the EU MS and AC (YES / NO)	YES
Date	23 October 2008