

BIOGRAPHICAL SKETCH

NAME – Alexander Archakov	POSITION TITLE – Director		
CURRENT AFFILIATION – Institute of Biomedical Chemistry of the Russian Academy of Medical Sciences (RAMS)			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
2 nd Moscow Medical Institute, Moscow, Russia	Student	1956-1962	medicine
2 nd Moscow Medical Institute	physician	1962	medicine
2 nd Moscow Medical Institute	Dr.Med.	1966	biochemistry
2 nd Moscow Medical Institute	Dr.Sc.Biol.	1972	biochemistry
2 nd Moscow Medical Institute	Prof.	1976	biochemistry
2 nd Moscow Medical Institute	Post-grad. Student	1962-1965	Medical biochemistry
2 nd Moscow Medical Institute	Res.teach. Assist.	1965-1969	Biochem/enzymology
2 nd Moscow Medical Institute	lecturer	1969-1970	Biochem/enzymology
2 nd Moscow Medical Institute	Head of lab.,full prof.	1970-1979	Biochem/enzymology
2 nd Moscow Medical Institute	Head of dept.,full prof.	1979-1989	Biochem/enzymology
Institute of Biomedical Chemistry of RAMS	Director	1989	biochemistry
Institute of Biomedical Chemistry of RAMS	Academician of RAMS	1991	biochemistry

List of five recent publications by the candidate:

1/Biospecific irreversible fishing coupled with atomic force microscopy for detection of extremely low-abundant proteins

PROTEOMICS

Volume 9, Issue 5, Date: No. 5 March 2009, Pages: 1326-1343

Alexander Archakov, Yurii Ivanov, Andrey Lisitsa, Victor Zgoda

2/Proteomic profiles of induced hepatotoxicity at the subcellular level

PROTEOMICS

Volume 6, Issue 16, Date: No. 16 August 2006, Pages: 4662-4670

Victor Zgoda, Olga Tikhonova, Anastasia Viglinskaya, Marina Serebriakova, Andrey Lisitsa, Alexander Archakov

3/AFM fishing nanotechnology is the way to reverse the Avogadro number in proteomics.
Archakov AI, Ivanov YD, Lisitsa AV, Zgoda VG.
Proteomics. 2007 Jan;7(1):4-9.

4/Nanotechnologies in proteomics.
Ivanov YD, Govorun VM, Bykov VA, Archakov AI.
Proteomics. 2006 Mar; 6(5):1399-414. Review.

5/Analytical nanobiotechnology for medicine diagnostics.
Archakov AI, Ivanov YD.
Mol Biosyst. 2007 May; 3(5):336-42. Epub 2007 Mar 1. Review.

Please indicate in 200 words or less the reason(s) why you would be a suitable candidate for the HUPO Council elections.

The Institute which I am heading takes active part in all international HUPO conferences.

Beginning from the year 2002, proteomics is one of key direction in our investigations.

The basic goal of proteomic department is in carrying out investigations focused on practical usage for medical diagnostics. A number of subjects are aimed at realization of experimental support for a new drug development phases, for example, search of molecular targets and assessment of side effects. The section is completed with mass-spectrometric equipment, robotic lines, biosensors and AFM that taken together make powerful instrumental base.

In March 2009 the meeting on participation of Russia in execution of "Human Proteome" project was held under the aegis of the institute.

We look forward with interest to our continued cooperative efforts in realization of this Project for the benefit of all people.