



CURRICULUM VITAE of Professor Alexander A. Kamnev

Full name: Alexander Anatolievich KAMNEV
Date and place of birth: 17 Dec 1958, Saratov, Russian Federation (USSR)
Citizenship: Russia
Official address: Institute of Biochemistry and Physiology of Plants and Microorganisms, Russian Academy of Sciences, 13 Entuziastov Ave., 410049 Saratov, Russia. Tel./Fax: +7-8452-970444. E-mail: aakamnev@ibppm.ru, a.a.kamnev@mail.ru
Home address: 3rd Kavkazskii Tupik, 7A, apartment 85. (Mob. tel.: +7-917-2184118.)
Marital status: married, with two daughters (born 1995 and 1984) and a son (born 1980).

Career:

Institute of Biochemistry and Physiology of Plants and Microorganisms, Russ. Acad. of Sciences (IBPPM RAS):

Leading Scientist: 2003–present (*Laboratory of Biochemistry, IBPPM RAS*);

Senior Scientist: **1996 – 2003**; Scientist: **1992–1996**;

Dept. of Phys. Chemistry, Scientific Research Inst. of Chemistry at Saratov State University, Saratov, Russia:

Jr. Scientist to Scientist: **1980–1992**.

Education, diplomas, degrees:

Professor in phys. chem.: Higher Attestation Committee of the Russ. Federation, Moscow (2010).

DSc in physical chemistry: Saratov State University, Saratov (2002).

Cand. Chem. Sci. (PhD equiv.) in physical chemistry: Saratov State University, Saratov (1992).

MS (chemistry), Faculty of Chemistry, Saratov State University (1980).

Language Aptitude: Russian (native); fluent English (both written and spoken).

Specialisation:

- *main field:* biophysical chemistry, application of various spectroscopic techniques for studying biomolecules, biocomplexes, supramolecular structures and microbial cells;
- *current research interests:* metal ion interactions with bacterial metabolites and biomacromolecules; physicochemical aspects of plant-microbe interactions, microbial intracellular biomacromolecules and their structural modifications under the effect of environmental conditions and external agents (plant exudates; metal ions, etc.); spectroscopic features of nanoparticles functionalised by biomacromolecules; biological applications of vibrational (FTIR, Raman) and Mössbauer spectroscopic techniques.
- *research background:* physical chemistry and electrochemistry of 3d-transition metal oxyhydroxides and binary systems (Fe, Co, Ni); alkaline battery electrode materials and their behaviour in alkaline electrolytes.

Personal participation in scientific meetings:

Over 65 international scientific meetings (1989–2017), with over 55 oral presentations (including 25 invited/plenary lectures).

Teaching/supervising experience:

Supervised research of 6 PhD students (each received a PhD degree in physical chemistry (3) or in biochemistry and microbiology (3) within 1999–2015) and a number of undergraduates; currently supervising several PhD and undergraduate students.

Lecturing to students on "Physical chemistry" at the College of Applied Science (applied physics) at Saratov State University (1992–1995).

Publications:

– *number of papers in refereed journals/book chapters:* over 130 (including 9 invited chapters);

– *number of published communications to scientific meetings:* over 160 (abstracts and full papers).

(A list of representative publications and chapters is given on the personal webpage under "List of Publications".)

Grants, Awards, Fellowships, Research projects:

The Russian Foundation for Basic Research (RFBR):

Travel Grants (yearly) for international meetings: total 14 (1996–1998, 2000–2008, 2010–2011; *since 2012, the RFBR Travel Grant Programme has been closed*).

Research Grant No. 17-08-01696-a (team leader): 2017–2019;

Research Grant No. 13-04-01538-a (team leader): 2013–2015;

Research Grant No. 95-03-08295-a (team leader): 1995–1996;

Research Grant No. 16-08-01302-a (team member): 2016–2018;

Research Grant No. 01-04-48755-a (team member): 2001–2003.

The Russian Academy of Sciences' Commission on Work with the Youth:

Research Grant No. 205 of the 6th Call for Projects (team leader, 2001–2003).

The Corporation “Siberian Health LLC” (Novosibirsk, Russia):

Research grant of the 2012 Call for Projects (team leader, 2012–2013).

The INTAS (EC, Brussels, Belgium):

Research grant (Team Leader, Coordinator of the consortium) for a 3-year quadrilateral International Project No. 96-1015, Oct. 1997–Sept. 2000.

The International Science Foundation (ISF, New York, USA):

Personal Grant Award: 1993; Travel Grant Award: 1993

The NATO Science Program (Brussels, Belgium):

Expert Visit Grants: EST.EV.975280 (visiting expert, 1999); LST.EV.980141 (visiting expert, 2003); CBP.NR.NREV.981748 (visiting expert, 2005).

Collaborative Linkage Grants: LST.CLG.977664 (Co-ordinator), March 2001 – March 2003; LST.NR.CLG.981092 (Co-ordinator), Sep. 2004 – Aug. 2006; ESP.NR.NRCLG 982857 (Co-ordinator), Apr. 2007 – Apr. 2009.

Short-Term Fellowships:

from the UNESCO (in biotechnology): 1998; 2000; 2002.

from the EMBO (in molecular biology): 2001.

Bilateral research projects:

under the *Agreements for Scientific Collaboration between The Russian and Hungarian Academies of Sciences:*

– **6 projects** with Loránd Eötvös University, Budapest (Coordinator from Russia; 1996–1998, 1999–2001, 2002–2004, 2005–2007, 2008–2010, 2011–2013);

– **three projects** with Institute for Soil Sciences and Agricultural Chemistry, Agricultural Research Centre of the Hungarian Academy of Science, Budapest (team member; 2005–2007, 2008–2010, 2011–2013). *Since 2014, the bilateral Programme has been suspended by the Federal Agency for Scientific Organisations of the RF.*

Membership in Professional Societies & Boards:

– Member of The Russ. Soc. of Biochemists & Mol. Biologists (FEBS constituent society): since 1993.

– Member of The Russian Microbiological Society (FEMS constituent society): since 1993.

– Member of the **Editorial Advisory Board** of the journal *Current Enzyme Inhibition* (“Bentham Sci. Publ.”, USA & Netherlands; <http://www.bentham.org/cei/EBM.htm>): 2007 – present.

– Member of the **Editorial Board** of the *Journal of Molecular Imaging and Dynamics* (“OMICS Publishing Group”, USA; <http://www.omicsonline.org/EditorialboardJMID.php>): 2010 – present.

– Member of the **Editorial Board** of the *Journal of Analytical and Bioanalytical Techniques* (“OMICS Publishing Group”, USA; <http://www.omicsonline.org/EditorialboardJABT.php>): 2010 – present.

– Member of the **Editorial Board** of the *Journal of Glycobiology* (“OMICS Publishing Group”, USA; <http://www.omicsgroup.org/journals/editorialboardJGB.php>): 2011 – present.

– Member of the **Editorial Board (Academic Editor)** of the *International Journal of Biochemistry Research and Review* (“SCIENCEDOMAIN International”; Great Britain, USA, India; <http://www.sciencedomain.org/editorial-board-members.php?id=3>): 2013–present;

– Member of the **Editorial Board** of the journal *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (“Elsevier”): <http://www.journals.elsevier.com/spectrochimica-acta-part-a-molecular-and-biomolecular-spectroscopy/editorial-board> (2016–present);

– **Guest Editor**, Special Issue (SI: CSI XXXVII 2011) of *Spectrochimica Acta Part A: Molecular & Biomolecular Spectroscopy* (2013, Vol. 100): <http://www.sciencedirect.com/science/journal/13861425/100>. Virtual Special issue (VSI: CSI XL 2017) of *Spectrochimica Acta Part A: Molecular & Biomolecular Spectroscopy* (2017, in preparation).

– Honorary Member of The Bashan Foundation (USA; <http://www.bashanfoundation.org/honorary.html>): 2004 – present.

– Member of The Science Advisory Board (USA; Membership number 64634; <http://scienceboard.net>): 2004 – present.

Member of the International Scientific (Advisory) Boards/Committees of a number of international scientific conferences; e.g. “Colloquium Spectroscopicum Internationale XXXVII” (CSI XXXVII), Brazil, 2011 (<http://www.csixxxvii.org/index.php?pag=international>); CSI XXXVIII, Norway, 2013 (<http://site.uit.no/csi2013/international-advisory-board/>); CSI XXXIX, Portugal, 2015 (<http://csi2015.fis.uc.pt/>; see the link “Committee” at the bottom); CSI XL, Italy, 2017 (http://www.csi-conference.org/?page_id=372), etc.

Member of the Organising Committees of: 2nd Internat. Conf. “Nanobiophysics-2011”, Kiev, Ukraine (<http://www.iop.kiev.ua/~nbp2011/>); 3rd Internat. Conf. “Nanobiophysics-2013”, Kharkov, Ukraine (<http://www.ilt.kharkov.ua/nbp2013/committee.html>); 4th Internat. Conf. “Nanobiophysics-2015”, Kyiv, Ukraine (<http://www.iop.kiev.ua/~nbp2015/>); XII Internat. Conf. on Mössbauer Spectroscopy and Its Applications, Suzdal, Russia, 2012 (http://icmsa2012.imetran.ru/org_comitet.html), XIII Internat. Conf. on Mössbauer Spectroscopy and Its Applications, Suzdal, Russia, 2014 (http://en.icmsa.imetran.ru/Organizing_Committee.html); XIV Internat. Conf. on Mössbauer Spectroscopy and Applications, Kazan, Russia, 2016 (<http://icmsa.ru/en/organizing-committee/>); 5th Internat. Conf. “Nanobiophysics-2017”, Kharkov, Ukraine (http://www.ilt.kharkov.ua/nbp2017/program_committee.html), etc.