

Curriculum vita

SURNAME : **Khamiankou**

FIRST NAME: **Vasil**

Affiliation and official address: A.N. Bakh Institute of Biochemistry, Russian Academy of Sciences

Date and place of birth: April 6, 1979, Gomel

Nationality: Belarus

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Leninskiy prosp., 33, build. 3, room#23

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Education (*degrees, dates, universities*)

2001 - Master of science in Biochemistry, Faculty of Biology, Gomel State University, Belarus

Career/Employment (*employers, positions and dates*)

1996-2001 – undergraduate student in Gomel State University, Belarus

2001-2002 – junior research scientist in Central research laboratory of Gomel State Medical University in Belarus

1999-2000 – educational training in Institute of Protein Research of the Russian Academy of Sciences, Puschino, Moscow region, Russia

2002- 2005. – Ph.D. student in A.N. Bakh Institute of Biochemistry RAS, Moscow, PhD thesis: Genosystematic approach for investigation of species complexity and metabolic potential of bacterial consortia degrading aromatic compounds. (25.10.2005)

WORK EXPERIENCE

- Manipulation with DNA and RNA
- Recombinant expression
- Molecular cloning
- PCR
- rt-PCR, Smart RACE
- SNP, SSCP, RFLP – analysis
- Molecular - systematic study
- Protein purification: FPLC and HPLC
- Spectroscopy in UV, VIS and IR - ranges
- The basic techniques of clinical biochemistry
- Histological and pathological anatomy technique

OTHER SKILLS

The English, Russian, Belorussian, Polish.

Personal computer (Win Word, Excel, MS Office, Origin)

DNA-star, Vector NTI, SigmaPlot.

Selected Publications:

1. Khomenkov V.G. “*Study of formulating and chemical structure of thin films risen by electron-ray dispersion products of polyparaxylylene*”// **Thesis of international R&D conference “Polymer composites-2000”** (Gomel, Sep. 12-13 2000) Gomel 2000. p. 226-227
2. Khomenkov V.G., Ignatenko V.A. “*Impact of short-frequency wave electromagnetic energy on water solutions of hemoglobin*”:// **Actual problems of medicine: Scientific bulletin:** Gomel. Issue 2002. p. 244-246
3. Zhukov V.G., Khomenkov V.G., Komarov A.V., Park K.J., Jang S.H. «*Industrial plants for microbial deodorization of gas phase emissions*»//**Biotechnology: state of art and prospective: II Moscow International Congress** (Moscow Nov. 10-14 2003) Mosc.: «Maxima PIC, D.I. Mendeleev Univ. of Chemical Technology, 2003. – part 1, p.8-9
4. Zhukov V.G., Popov V.O., Khomenkov V.G. «*Microbiological methods of odor removal from industrial air emissions from volatile traces. Possibilities and practical approaches of «BIOREACTOR» technology for industrial atmospheric pollution*». //**Science of Moscow and regions, R&D journal** (innovations and manufacturing) #3, 2003, p. 61-68.
5. Speransky A.S., Dorokhin A.V., Kuznetsova T.V., Khomenkov V.G., Shevelev A.B., Valueva T.A. “*Kunitz-type protease inhibitors from potato cv. Istinski*”// **Plant growth development and productivity regulation. III International scientific congress**, Minsk, Oct. 8-10 2003) – Minsk.: «Pravo i ekonomika», 2003. - p.270
6. V. G. Khomenkov, A. B. Shevelev, V. G. Zhukov, A. E. Kurlovich, N. A. Zagustina, and V. O. Popov. *Application of Molecular Systematics to Study of Bacterial Cultures Consuming Volatile Organic Compounds* // **Applied Biochemistry and Microbiology**, Vol. 41, No. 2, 2005, pp. 154–161.
7. V. G. Khomenkov, A. B. Shevelev, V. G. Zhukov, A. E. Kurlovich, N. A. Zagustina, and V. O. Popov. *Metabolic Pathways Responsible for Consumption of Aromatic Hydrocarbons by Microbial Associations: Molecular–Genetic Characterization* // **Applied Biochemistry and Microbiology**, Vol. 41, No. 3, 2005, pp. 259–263.
8. N. Krakhmaleva, S. S. Shishkin, N. I. Shakhovskaya, E. B. Stolyarova, A. G. Plugov, A. I. Knyazev, V. G. Khomenkov, A. B. Shevelev, and N. N. Chernov. *SNP-Detecting DNA Technologies: Solving Problems of Applied Biochemistry* // **Applied Biochemistry and Microbiology**, Vol. 41, No. 3, 2005, pp. 264–268.
9. V.G. Khomenkov, A.B. Shevelev, V.G. Zhukov, N.A. Zagustina and V.O. Popov *Genosystematic approach to study of bacterial cultures utilizing volatile organic compounds and mapping their principal biodegradation pathways.*: **1st International Conference of**

Environmental, Industrial and Applied Microbiology (BioMicroWorld-2005), Badajoz (Spain), March 15-18st 2005, Book Of Abstracts P.113.

10. E.V. Surovtseva., T.V. Kuznetsova., V.G. Khomenkov, S.P. Domogatsky, A.B. Shevelev. *Engineering a new strain producing human TNF- α* // **Russian Journal of Bioorganic Chemistry**. Vol.32, No .5, 2005, pp. 337-344.
11. T.N. Kazeeva, V.G. Khomenkov, T.V. Kuznetsova, A.B. Shevelev. *Study of IgA-specific endopeptidases from Neisseria meningitidis and their genes.*: **International Conference BIOCATALYSIS-2005: Fundamentals and Applications**, St.Peterburg-Kizhiy-Valaam (Russia), June 19-23, 2005, Book Of Abstracts P.128.
12. A.B. Shevelev., V.G. Khomenkov., T.V. Kuznetsova., L .I. Kovalyov., N.V. Lagodnaya. *Engineering a new strain producing human myostatin as result as fusion protein with 6His-GFP on the base of E.coli and studying of his immunogenity.* //Medico-Biological Technologies of Serviceability increasing in case of heavy physical exertion: **Scientific bulletin**: Moscow. Issue 2004. p. 140-150.
13. V.G. Khomenkov, A.B. Shevelev, V.G. Zhukov, N.A. Zagustina and V.O. Popov. *Bacterial consortia utilizing volatile organic compounds: mapping genomic determinants of essential biodegradation pathways.* : **International Congress Biotechniques for Air Pollution Control**, La Coruña (Spain), October 5-7 2005, Congress proceedings P. 61 – 68.
14. V.O. Popov, V.G. Khomenkov, V.G. Zhukov, M. Cavanagh, P. Cross. *Design, construction and long-term performance of novel type of industrial filters for VOC and odour control.* : **International Congress Biotechniques for Air Pollution Control**, La Coruña (Spain), October 5-7 2005, Congress proceedings P. 257 – 262.
15. Nazarenko S., Popov S., Popova T., Khomenkov V.G., Kuznetsova T.V., Guledani I.K., Shevelev A.B. *Cytoskeleton rearrangements in the epithelium cells CRL-1636 induced by the vegetative cells and exotoxins of Bacillus anthracis*: **Mol Gen Mikrobiol Virusol. 2006** (in press).
16. V.G. Khomenkov., T.N. Kazeeva., B.I. Shevelev., V.P.Bargrasser., M.Yu. Skoblov., A.B. Shevelev. *Cloning and expression of IgA-specific endopeptidases genes from Neisseria meningitidis*: **Mol Gen Mikrobiol Virusol. 2006** (in press).