

OBJECTIVE

Position of Team Leader or Chief Research Scientist in organization, working with innovations, research and manufacture of biologically active substances and related products (pharmaceutics, cosmetics, etc.).

SYNOPSIS

Over 30 years of experimental work in fundamental and applied medico-biological researches of biologically active substances (toxicology, pharmacology, cosmetics).

Significant experience in scientific and technical report writing, scientific articles' publication, presentations of the research findings and results at scientific and trade conferences.

Experience in development of new cosmetic and pharmacological products and new brands' concepts on the basis of investigations of biologically active substances' mechanisms of actions and its delivery systems.

More than 130 publications, including 6 patents.

Devoted to researches and creative work; proven superior ability to achieve long-term goals; prefer compromised solution.

EDUCATION

1975-1981 - Russian State Medical University, Moscow, Russia. Bio-Medical Faculty, Division of Biophysics. Higher special education, specialization - biophysics

1989-1990 - Russian Medical Military Academy, Saint Petersburg, Russia. Chair of Toxicology, Radiology and Medical Protection. Ph.D. Candidate in medical science (Russian "Candidate of Science" degree), specialization - toxicology.

2003-2006 - Mechanical Engineering Research Institute RAS, Moscow, Russia. Investigations of Biomechanical Systems Laboratory. Postdoctoral researcher (candidate for the Russian "Doctor of Science" degree), specialization - biomechanics.

ACADEMIC DEGREE

Ph.D. in Medical Science, 1990.

ACADEMIC RANK

Associate professor in toxicology, 1993.

WORK EXPERIENCE

2009-present – CJSC «Pharmaceutical Company EKOMIR», Moscow, Russia. Chief Scientific Officer.

Duties: scientific justification of new product's concepts; commission, control and acceptance of the clinical studies and research and development works carried out by contractors; negotiations with foreign partners; the company and products' presentation at conferences and seminars; development of patents, scientific publications and presentations, technical documentations.

Specialization: pharmaceutical and biotechnological products.

2008-2009 - LLC «LEOVIT nutrio», Moscow, Russia. Chief Scientific Officer.

Duties: scientific counseling to the research and development department; presentation of company and products at conferences and consultations on job safety and occupational medicine; development of scientific publications and user guides for products; communications with specialized research and medical institutions.

Main achievements: structuring of dietetic (therapeutic and prophylactic) nutrition products' development and promotion management in accordance with modern scientific level and federal laws of labor protection.

Specialization: dietetic (therapeutic and prophylactic) nutrition products for people working in harmful labor conditions.

2004-2008 – JSC "NIZAR Laboratory", Moscow, Russia. Deputy Director for Science.

Duties: Supervision of new products development; scientific justification of cosmetic lines' concepts for marketing department; commission, control and acceptance of the research and development works carried out by contractors; negotiations with foreign partners; presentation of company and products at conferences and seminars; development of patents, scientific publications and presentations, technical documentations and certification documentations.

Specialization: Transepidermal delivery systems, nanoemulsions, multiple emulsions in cosmetics and pharmaceutics.

Main achievements: Development of new emulsion products line "NIZACELL[®]" (reversed micro- and nanoemulsions "water in silicone" type); justification and realization in patents and cosmetic preparations concepts of biological correspondence of multilevel dispersed systems, usage in cosmetics gas exchange modulators, systemic action of cosmetic preparations; creation of pharmaceutical microemulsions for OAO "NIZPHARM" and "Society of parenteral and enteral nutrition".

Address: Moscow

Sergey P. Krechetov

E-mail: ksp@mail.ru

Web: www.krechetov.com

-
- 2003-2006** - Mechanical Engineering Research Institute RAS, Moscow, Russia. Investigations of Biomechanical Systems Laboratory. Senior Research Scientist.
Duties: Carrying out laboratory scientific researches, preparation of scientific report documentation, scientific articles publication, presentations of researches results at scientific conferences.
Specialization: Cell biomechanics, biomechanics of cardiovascular system.
- 1987-1988** - Scientific Center of USSR Ministry of Defense in zone of Chernobyl accident, Chernobyl, Ukraine. Research Scientist.
Duties: Carrying out field investigations, preparation of scientific and technical reports.
Specialization: Radiology.
- 1981-2003** - Research Institute of Defense Ministry of Russian Federation, Shykhany, Russia. Head of Research Division.
Duties: Planning, organization and implementing laboratory and field researches and tests, preparation of scientific and technical report documentation, scientific articles publication, presentations of researches results at scientific and industry conferences.
Specialization: Toxicology, molecular mechanisms of action of biologically active substances, prognosis of susceptibility to biologically active substances
- 1977-1981** - Institute of Information Transmission Problems RAS, Moscow, Russia. Transmission of Information on Cell and Molecular Levels Laboratory Graduate student.
Specialization: Cell biomechanics and locomotion.

MAIN EXPERIMENTAL SKILLS

Carrying out toxicological investigations *in vivo* and *in vitro*, determination of toxicometric parameters of substances.

Biological specimens preparation (homogenization, preparative centrifugation), measurements of biochemical and biophysical parameters of specimens (spectral, chromatographic, radionuclide and others methods).

Preparation of different types emulsions and other dispersed systems, containing biologically active substances.

Various kinds of light microscopy in combination with single living cell micromanipulation.

COMPUTER

Advanced user of main office and graphic program packages: MS Word, MS Excel, MS Power Point, MS Outlook, Adobe Photoshop, Adobe Acrobat, and program packages of data processing and presentation: STATISTICA, MATLAB, ACDLABS, etc.

Every day use of Internet data resources: search engines, data bases, articles repositories, websites of organizations, scientific and educational institutions, etc.

LANGUAGES

Russian: Mother tongue

English: Good

CITIZENSHIPS

Russian Federation

RECOMMENDATIONS

Name	Company	Position	Contact information
Smolyaninov V.V.	Mechanical Engineering Research Institute of Russian Academy of Sciences, http://www.imash.ru/	Head of a laboratory	
Maevskij E.I.	Institute of Theoretical and Experimental Biophysics of the Russian Academy Science, http://web.iteb.ru/	Deputy director	
Rembowsky V.R.	Federal State Unitary Enterprise Research Institute of Human Hygiene, Occupational Pathology and Ecology, http://rihophe.ru/index.html	Director	Available upon request
Buzaev I.V.	LLC «LEOVIT nutrio», http://www.leovit.net/	Business development director	

PUBLICATIONS:*Recent publications:**Articles:*

Rembovskiy V.R., Krechetov S.P., Gerashenko V.M. [Toxicometric principles of delimitation of health protection areas after incidents on the chemical weapons destruction facilities]// *Ross. Khim. Zhurn. (Zhurn. Ross. Khim. ob-va im. D.I. Mendeleeva)*, 2010.-V.54.-№4.-P.85-88. Russian.

[Interspecies and line variation in death time following poisoning by substances with different involvement of lipid peroxidation in the mechanism of toxic action]/ Alimov N.I., Rembovskiy V.R., Krechetov S.P., Popovich V.I., Gerashenko V.M.// *Toksikol. vestnik*, 2007.-№.4.-P.13-23. Russian.

[Inter and intraspecies differences in lipid peroxidation and in characteristics of pro and antioxidant systems in experimental mammalian]/ Alimov N.I., Rembovskiy V.R., Krechetov S.P., Popovich V.I., Gerashenko V.M.// *Toksikol. vestnik*, 2005.-№.5.-P.13-23. Russian.

[Impact of particularities of lipid peroxidation and the state of pro and antioxidant systems on susceptibility of laboratory mammals to biologically active substances]/ Alimov N.I., Rembovskiy V.R., Krechetov S.P., Popovich V.I., Gerashenko V.M.// *Toksikol. vestnik*, 2005.-№.4.-P.6-12. Russian.

[Inter and intraspecies variation of susceptibility of biota to substances with different involvement of lipid peroxidation in the mechanism of toxic action]/ Alimov N.I., Rembovskiy V.R., Krechetov S.P., Popovich V.I., Gerashenko V.M.// *Toksikol. vestnik*, 2005.-№.2.-P.14-22. Russian.

Krechetov S.P. [Statistical perspectives of biological objects parameters changes revealing after action of low effective doses of toxic substances.]// *Doklady Akademii Voennyh nauk. Series "Applied problems of chemical weapons decomposition and military ecology"*.-2000.-№ 6.-P.109-116. Russian.

Rembovskiy V.R., Krechetov S.P., Gerashenko V.M. [Pathobiochemical mechanism of 2,3,7,8 tetrachlorodibenzo p dioxin (TCDD) action.]// *Doklady Akademii Voennyh nauk. Series "Applied problems of chemical weapons decomposition and military ecology"*.-2000.-№ 6.-P.149-162. Russian.

Monographs:

[Legislative regulation of therapeutic and preventive nutrition of workers under harmful and especially harmful labour conditions]/ Izmerova N.I., Kuz'mina L.P., Pilat T.L., Istimin A.V., Krechetov S.P., Mokina M.N., Koliaskina M.M.// *M.: Research Institute of Occupational Health of RAMS*, 2009.-51 p. Russian.

Conferences:

Krechetov S.P. [Pathobiochemical basis of lipid peroxidation intensification on treatment of high-toxic inducers of cytochrome P 450.]// *Proceedings of Scientific Conference "40 years MBF RGMU"* 20-21 November 2003.- Moscow, 2003. Russian.

Krechetov S.P., Smolyaninov V.V. Surface structure movement related to locomotion of *A. proteus*. *Proceedings of International Symposium "Biological Motility"* dedicated to the memory of academician G.M. Frank (1904-1976), May 23-June 1 2004.- Pushchino, 2004, P.175-176.

Krechetov S.P., Smolyaninov V.V. [Mechanical properties of *A. proteus* in locomotion.]// *Proceedings of Russia III Biophysical Congress*, 24 –29 June 2004 Voronez.- Voronez, 2004.- C.347 348. Russian.

Rumyancev K.A., Krechetov S.P., Rakcheeva T.A., Smolyaninov V.V., Yavelov I.S. [Parametric variability of mechanopulsograms.]// *Proceedings of Russia III Biophysical Congress*, 24 –29 June 2004 Voronez.- Voronez, 2004.- C.373 374. Russian.

Ahsyanov U.U., Parnev O.M., Oksinoid O.E., Krechetov S.P., Maevskiy E.I., Hizhnyak E.P., Hizhnyak L.N. [The complex approach in creation of multifunctional cosmetic.]// *Proceedings of IX International Scientific Practical Conference «Cosmetic Products and Row Materials: Safety and Efficacy 25 27 October 2004.*- Moscow, 2004.- P.38. Russian.

Krechetov S.P., Smolyaninov V.V. [Multipoint monitoring of cardio-vascular system functional state.] *Proceedings of 9-th All-Russian Scientific and Technical Conference «State and Problems of Measurements» 23...25 November 2004.* Moscow, 2004.- C.117. Russian.

Rumyancev K.A., Kalugin I.Yu., Krechetov S.P., Smolyaninov V.V. [Parameterization of mechanopulsograms in diagnostics of cardio-vascular system state.]// *Proceedings of 9-th All-Russian Scientific and Technical Conference «State and Problems of Measurements» 23...25 November 2004.*- Moscow, 2004.- C.118-119. Russian.

Ahsyanov U.U., Oksinoid O.E., Krechetov S.P., Maevskiy E.I., Chebotar' I.V., Muhina I.V. [Multilevel disperse systems in cosmetics.] *Proceedings of X International Scientific Practical Conference «Cosmetic Products and Row Materials: Safety and Efficacy» 7 9 ноября 2005.*- Moscow, 2005, P.55 56. Russian.

Krechetov S.P., Smolyaninov V.V. Investigation of fibroblast biomechanics by micropipette aspiration technique. *Proceedings of International Symposium "Biological Motility: Basic Research and Practice"*, May 11-15 2006.- Pushchino, 2006, P.153-154.

Smolyaninov V.V., Krechetov S.P., [Hardware and software system for biomechanical monitoring of human cardiac pulse]// Proceedings of 5th International Scientific and Practical Congress "Man in Extreme Condition: Health, Reliability and rehabilitation", 16-20 October 2006.- Moscow, 2006, P.34-37. Russian.

Ahsyanov U.U., Oksinoid O.E., Krechetov S.P. Schelokova O.S. [Perspectives of multilevel disperse systems use as delivery systems of active components in cosmetics.] Proceedings of XI International Scientific Practical Conference «Cosmetic Products and Raw Materials: Safety and Efficacy» 24-26 October 2006.- Moscow, 2006, P.48-49. Russian.

Krechetov S.P., Smolyaninov V.V. Experimental estimation of fibroblasts forced deformations invariants. Proceedings of International Symposium "Biological Motility" dedicated to the memory of academician G.M. Frank (1904-1976), May 23-June 1 2008.- Pushchino, 2008, P.175-176.

Krechetov S.P., Oksinoid O.E., Maevskij E.I. Cellular transport mechanisms in action of colloidal delivery systems. Proceedings of International Symposium "Biological Motility" dedicated to the memory of academician G.M. Frank (1904-1976), May 23-June 1 2008.- Pushchino, 2008, P.175-176.

Krechetov S.P., Rembowsky V.R., Gerashenko V.M. Prooxidative shift in toxic action of TCDD. Proceedings of 11th SAC Seminar "New Trends in Chemical Toxicology", 22-25 September 2008.- Moscow, 2008, P.63., Poster

Smolyaninov V.V., Krechetov S.P., [Software and hardware system for biomechanical human cardiac pulse investigations with ability of autonomic registration]// Proceedings of 6th International Scientific and Practical Congress "Man in Extreme Condition: Human Factor and Professional Health", 13-17 October 2008.- Moscow, 2008, P.36-37. Russian.

Smolyaninov V.V., Krechetov S.P. [Correlation of susceptibility to bioactive substance with parameters of biological objects as base for prognosis of individual and group human toxicometry parameters of toxic substances]// Proceedings of 6th International Scientific and Practical Congress "Man in Extreme Condition: Human Factor and Professional Health", 13-17 October 2008.- Moscow, 2008, P.263-264. Russian.

Patents and patent applications:

Patent application RF 2012102815; Filed: 30.01.2012. Russian.

Patent application RF 2011122374; Filed: 02.06.2011. Russian.

Patent RF 2437692 C2 Int. Cl. A61N5/10 (2006.01), A61N5/067 (2006.01), A61M16/12 (2006.01), A61K31/02 (2006.01), A61K31/455 (2006.01), A61K31/196 (2006.01), A61K35/14 (2006.01), A61K35/28 (2006.01), A61P35/00 (2006.01), B82B1/00 (2006.01). Method of treating solid malignant growths and their metastases/ S.J. Leshkov, N.S. Vikhrieva, S.P. Krechetov.- N 2010109034/14; Filed 12.03.2010; Publ. 27.12.2011 Bull. № 36. Russian.

Patent RF 2381792 C2, Int. Cl. A61K31/02 (2006.01), A61K8/04 (2006.01), A61Q19/08 (2006.01). [Preparation for mesotherapy]/ U.U. Ahsyanov, O.E. Oksinoid, S.P. Krechetov, E.I. Maevskiy, E.K. Fomina.- N 2008112524/15; Filed 02.04.2008; Publ. 20.02.2010, Bull. N 28. Russian.

Patent RF 2304960 A, Int. Cl. A61K 8/97 (2006.01), A61K 8/891 (2006.01), A61K 8/19 (2006.01), A61K 8/44 (2006.01), A61K 8/67 (2006.01). [Cosmetic agent for skin application]/ U.U. Ahsyanov, O.E. Oksinoid, S.P. Krechetov, O.M. Parnev, E.I. Maevskiy.- N 2005130520/15; Filed 03.10.2005; Publ. 27.08.2007, Bull. N 24. Russian.

Patent RF 2304959 A, Int. Cl. A61K 8/97 (2006.01), A61K 8/70 (2006.01), A61K 8/64 (2006.01), A61K 8/24 (2006.01). [Cosmetic preparation that protects skin against disorders initiated by active and passive smoking (variants) and oxygen-transporting multiple nanoemulsion being the constituent of its composition (variants)]/ U.U. Ahsyanov, O.E. Oksinoid, S.P. Krechetov, O.M. Parnev, L.A. Makhlis.- N 2005130518/15; Filed 03.10.2005; Publ. 27.08.2007, Bull. N 24. Russian.

Patent RF 2299060 C1, Int. Cl. A61K 8/891 (2006.01), A61K 8/04 (2006.01), A61K 8/24 (2006.01), A61Q 19/00 (2006.01). [Organosilicone emulsion for cosmetic and/or dermatological agents, method for production thereof and cosmetic agent]/ U.U. Ahsyanov, O.E. Oksinoid, S.P. Krechetov, O.M. Parnev, E.I. Maevskiy, E.V. Grishina.- N 2005130521/15; Filed 03.10.2005; Publ. 20.05.2007, Bull. N 14. Russian.

Patent RF 2296558 C1, Int. Cl. A61K 8/891 (2006.01), A61K 8/19 (2006.01), A61Q 19/00 (2006.01). [Emulsion of organosilicones for cosmetic and/or dermatological agents and method for production thereof]/ U.U. Ahsyanov, O.E. Oksinoid, S.P. Krechetov, O.M. Parnev.- N 2005130519/15; Filed 03.10.2005; Publ. 10.04.2007, Bull. N 10. Russian.