## CURRICULUM VITAE

**Name** Musa R. Khaitov **Date of birth** 31th August 1979

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 Moscow, 115478, RUSSIA

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**Education**

1996 – 2002Russian State Medical University (RSMU)

2007 - 2008 The Academy of National Economy under the Government

 of the Russian Federation (ANE)

**Qualifications** 2003 PhD

 2008 DSc

 2013 Professor of Immunology

 2016 RAS Corresponding-member

**Present Post**

Jul 2014- Director

 NRC Institute of Immunology FMBA Russia

# Previous Appointments

Oct 2004 – Feb 2006 Fellow Researcher, Department of Respiratory Medicine

National Heart and Lung Institute and

Wright Fleming Institute of Infection & Immunity

Imperial College of Science, Technology & Medicine

Norfolk Place, London W2 1PG

Sept 2007 - Head of Nano- and Biotechnologies Laboratory

 NRC Institute of Immunology FMBA Russia

Apr 2010 - Head of Nanobiomedical Technologies Departament

 NRC Institute of Immunology FMBA Russia

## Awards

2001 Sechenov gold medal II Conference of Young Russian Scientists “Basic Sciences and Progress of Clinical Medicines” 2001

2007 Russian Federation State award for young scientists in the field of science and technology

2008 Alferov fund award for the best work in the field of Bionanotechnology

2013 Gold Medal of Russian Scientific Society of Immunology

2014 Silver Cross Federal Medico-biological Agency Russia

**Memberships of Scientific Societies**

1998-

Present time Member of Russian Association of Allergy and Clinical Immunology (RAACI)

2013-

Present time RAACI Vice –President

1999-

Present time Member of European Academy of Allergy and Clinical Immunology (EAACI)

2013

Present time EAACI Executive committee member

2017

Present time EAACI Exam Committee Chair

**Expert activity**

2014 –

Present time Expert of Russian Scientific Foundation

2014 –

Present time Expert of "Platinum Ounce" Award

2015 –

Present time Expert of Russian Foundation for Basic Research

2016 Expert of Foundation “Skolkovo”

2016 Expert of Russian Academy of Sciences

**Editorial board memberships**

Editorial board Immunology (in Russian)

Editorial board Russian Allergology Journal

Editorial board Allergology and Immunology

Editorial board Medicine of Extreme Situations

**Social activity**

2016 Member of the Board for problems of drug abuse prevention at the Federation Council

2016 Member of the Scientific Council of the Russian Federation President's Advisor Klimenko G.S. on the implementation of methodological and organizational activities of creation and application intelligent decision support systems, medical solutions and justify the basic directions of development of the Russian Internet segment

2016 Member of the Advisory Board "Vaccines and Immunoprophylaxis" JSC "National immunobiological Company"

2017 Member of the Expert Council on improving the health organization of the Russian Federation State Duma Committee on Health

**Research Areas** Immunology, Allergology, Virology, Molecular Biology

## Major Publications

1. Khaitov MR, Shilovskiy IP, Nikonova AA, Shershakova NN, Kamyshnikov OY, Babakhin AA, Zverev VV, Johnston SL, Khaitov RM. siRNA’s targeted to IL-4 and RSV reduce airway inflammation in a mouse model of virus-induced asthma exacerbation //Hum Gene Ther. 2014 Jul;25(7):642-50. doi: 10.1089/hum.2013.142.
2. DJ. Jackson, H Makrinioti, Batika M.J., MB Trujillo-Torralbo, J Footitt, J del-Rosario, AG. Telcian, A Nikonova, Jie Zhu, J Aniscenko, L Gogsadze, E Bakhsoliani, S Traub, J Dhariwal, J Porter, D Hunt, T Hunt, LA. Stanciu, MR Khaitov, NW. Bartlett, MR. Edwards, OM Kon, Patrick Mallia, NG. Papadopoulos, CA. Akdis, J Westwick, MJ. Edwards, DJ. Cousins, RP. Walton, aSL. Johnston. IL-33-dependent type 2 inflammation during rhinovirus-induced asthma exacerbations in vivo. Am J Respir Crit Care Med. 2014 Dec 15;190(12):1373-82. doi: 10.1164/rccm.201406-1039OC
3. Khaitov MR, Laza-Stanca V, Edwards MR, Walton RP, Rohde G, Contoli M,Papi A, Stanciu LA, Kotenko SV, Johnston S. L. Respiratory Virus Induction of Alpha- Beta- and Lambda- interferons in Bronchial Epithelial Cells and Peripheral Blood Mononuclear Cells. Allergy 2009;64:375-86. Epub 2009 Jan 28.
4. Khaitov MR., Trofimov D.U., Petrova T.V., Yakovleva K.P.,. Boldyrevaa M.N, Yartseva M.N.,. Ilinaa N.I, DuBuske L.M., Alexeeva L.P. Mechanisms of viral impact on asthma exacerbations Journal of Allergy and Clinical Immunology. Volume 113, Issue 2, Supplement, 2004, Pages 264–265.
5. Stephanie Traub, Alexandra Nikonova, Alan Carruthers, Rebecca Dunmore, Katharine Vousden, Leila Gogsadze, Weidong Hao, Qing Zhu, Jie Zhu, Michael Dymond, Gary R McLean, Ross P Walton, Nicholas Glanville, Alison Humbles, Musa Khaitov, Ted Wells, Roland Kolbeck, Andrew J Leishman, Matthew A Sleeman, Nathan W Bartlett and Sebastian L Johnston. An anti-human ICAM-1 antibody inhibits rhinovirus-induced exacerbations of lung inflammation. PLOS Pathogens. 2013, **V**ol. 9. - Issue.8. - e1003520.
6. Zdrenghea MT, Telcian AG, Laza-Stanca V, Bellettato CM, Edwards MR, Nikonova A, Khaitov MR, Azimi N, Groh V, Mallia P, Johnston SL, Stanciu LA. RSV infection modulates IL-15 production and MICA levels in respiratory epithelial cells. Eur Respir J. 2012 Mar;39(3):712-20.
7. Rohde G, Message S, Haas J, Kebadze T, Parker, Hayley; Laza-Stanca V, Khaitov M, Kon O, Stanciu L, Mallia P, Edwards M, Johnston S. CXC-chemokines and antimicrobial peptides in rhinovirus–induced experimental asthma exacerbations. Clinical & Experimental Allergy, 2014Clin Exp Allergy. 2014 Jul;44(7):930-9. doi: 10.1111/cea.12313.
8. Baca-Estrada M., Carter D., Coleman G, Feavers I., Griffiths E., Gruber M., Iguchi M., Ishii K., Dahlan J., Khaitov M.R. et al. – Guidelines on the nonclinical evaluation of vaccine adjuvants and adjuvanted vaccines/World Health Organization, 2013.—56p. Электронный ресурс:

<http://www.who.int/biologicals/areas/vaccines/ADJUVANTS_Post_ECBS_edited_clean_Guidelines_NCE_Adjuvant_Final_17122013_WEB.pdf>

1. Khaitov MR. Biosafety and RNA interference. Post-genomic processes immunonanotehnology, new principles of creation and use of medicines. Monograph. Мoscow, 2012 – 320 p.
2. Calderon MA, Cox L, Casale TB, Mösges R, Pfaar O, Malling HJ, Sastre J, Khaitov MR, Demoly P. The effect of a new communication template on anticipated willingness to initiate or resume allergen immunotherapy: an internet-based patient survey. Allergy, Asthma & Clinical Immunology. 2015, Vol. 11. doi:10.1186/s13223-015-0083-z
3. Ansley L., Bonini M., Delgado L., Del Giacco S., Du Toit G., [Khaitov M](http://elibrary.ru/author_items.asp?authorid=151569)., Kurowski M., Hull J H, Moreira A., Robson A. P. Pathophysiological mechanisms of exercise-induced anaphylaxis: an EAACI position statement. Allergy. 2015, Vol. 70, 1212-1221.  DOI: [10.1111/all.12677](http://dx.doi.org/10.1111/all.12677)
4. Shershakova N, Bashkatova E, Babakhin A, Andreev S, Nikonova A, Shilovsky I, Kamyshnikov O, Buzuk A, Elisyutina O, Fedenko E, Khaitov M. Allergen-Specific Immunotherapy with Monomeric Allergoid in a Mouse Model of Atopic Dermatitis. PLoS One. 2015 Aug 14;10(8):e0135070. doi: 10.1371/journal.pone.0135070. eCollection 2015.
5. Shershakova N., Baraboshkina E., Andreev S., Purgina D., Struchkova I., Kamyshnikov O., Nikonova A., Khaitov M. Anti-inflammatory effect of fullerene C60 in a mice model of atopic dermatitis. Journal of Nanobiotechnology. 2016; 14:8; 1483-1493. DOI 10.1186/s12951-016-0159-z
6. Fedenko E., Elisyutina O., Shtyrbul O., Pampura A., Valenta R., Lupinek C., Khaitov M. Microarray-based IgE-serology improves management of severe atopic dermatitis in two children. Pediatric Allergy and Immunology. DOI:  10.1111/pai.12572.
7. Koloskova OO, Nikonova AA, Budanova UA, Shilovskiy IP, Kofiadi IA, Ivanov AV, Smirnova OA, Zverev VV, Sebaykin YL, Andreev SM, Khaitov MR. Synthesis and evaluation of novel lipopeptide as a vehicle for efficient gene delivery and gene silencing[.](http://www.ncbi.nlm.nih.gov/pubmed/26992289)Eur J Pharm Biopharm. 2016 May;102:159-67. doi: 10.1016/j.ejpb.2016.03.014. Epub 2016 Mar 15.
8. [Bousquet J](http://www.ncbi.nlm.nih.gov/pubmed/?term=Bousquet%20J%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Schünemann HJ](http://www.ncbi.nlm.nih.gov/pubmed/?term=Sch%C3%BCnemann%20HJ%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Hellings PW](http://www.ncbi.nlm.nih.gov/pubmed/?term=Hellings%20PW%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Arnavielhe S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Arnavielhe%20S%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Bachert C](http://www.ncbi.nlm.nih.gov/pubmed/?term=Bachert%20C%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Bedbrook A](http://www.ncbi.nlm.nih.gov/pubmed/?term=Bedbrook%20A%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Bergmann KC](http://www.ncbi.nlm.nih.gov/pubmed/?term=Bergmann%20KC%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Bosnic-Anticevich S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Bosnic-Anticevich%20S%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Brozek J](http://www.ncbi.nlm.nih.gov/pubmed/?term=Brozek%20J%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Calderon M](http://www.ncbi.nlm.nih.gov/pubmed/?term=Calderon%20M%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Canonica GW](http://www.ncbi.nlm.nih.gov/pubmed/?term=Canonica%20GW%5BAuthor%5D&cauthor=true&cauthor_uid=27260321),[Casale TB](http://www.ncbi.nlm.nih.gov/pubmed/?term=Casale%20TB%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Chavannes NH](http://www.ncbi.nlm.nih.gov/pubmed/?term=Chavannes%20NH%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Cox L](http://www.ncbi.nlm.nih.gov/pubmed/?term=Cox%20L%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Chrystyn H](http://www.ncbi.nlm.nih.gov/pubmed/?term=Chrystyn%20H%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Cruz AA](http://www.ncbi.nlm.nih.gov/pubmed/?term=Cruz%20AA%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Dahl 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A](http://www.ncbi.nlm.nih.gov/pubmed/?term=Muraro%20A%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Naclerio RN](http://www.ncbi.nlm.nih.gov/pubmed/?term=Naclerio%20RN%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Palkonen S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Palkonen%20S%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Papadopoulos NG](http://www.ncbi.nlm.nih.gov/pubmed/?term=Papadopoulos%20NG%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Passalacqua G](http://www.ncbi.nlm.nih.gov/pubmed/?term=Passalacqua%20G%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Price D](http://www.ncbi.nlm.nih.gov/pubmed/?term=Price%20D%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Ryan D](http://www.ncbi.nlm.nih.gov/pubmed/?term=Ryan%20D%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Samolinski B](http://www.ncbi.nlm.nih.gov/pubmed/?term=Samolinski%20B%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Scadding GK](http://www.ncbi.nlm.nih.gov/pubmed/?term=Scadding%20GK%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Sheikh A](http://www.ncbi.nlm.nih.gov/pubmed/?term=Sheikh%20A%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Valiulis A](http://www.ncbi.nlm.nih.gov/pubmed/?term=Valiulis%20A%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Valovirta E](http://www.ncbi.nlm.nih.gov/pubmed/?term=Valovirta%20E%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Walker S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Walker%20S%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Wickman M](http://www.ncbi.nlm.nih.gov/pubmed/?term=Wickman%20M%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Yorgancioglu A](http://www.ncbi.nlm.nih.gov/pubmed/?term=Yorgancioglu%20A%5BAuthor%5D&cauthor=true&cauthor_uid=27260321), [Zuberbier T](http://www.ncbi.nlm.nih.gov/pubmed/?term=Zuberbier%20T%5BAuthor%5D&cauthor=true&cauthor_uid=27260321); [Khaitov M](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kaitov%20M), [Kalayci O](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kalayci%20O), [Kalyoncu F](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kalyoncu%20F), [Keith P](http://www.ncbi.nlm.nih.gov/pubmed/?term=Keith%20P), [Khaltaev N](http://www.ncbi.nlm.nih.gov/pubmed/?term=Khaltaev%20N), [Kleine-Tebbe J](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kleine-Tebbe%20J), [Kolek V](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kolek%20V), [Koppelman GH](http://www.ncbi.nlm.nih.gov/pubmed/?term=Koppelman%20GH), [Kowalski M](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kowalski%20M), [Kull I](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kull%20I), [Kvedariene V](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kvedariene%20V), [Lambrecht B](http://www.ncbi.nlm.nih.gov/pubmed/?term=Lambrecht%20B), [Lau S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Lau%20S), [Laune D](http://www.ncbi.nlm.nih.gov/pubmed/?term=Laune%20D), [Le Thi Tuyet L](http://www.ncbi.nlm.nih.gov/pubmed/?term=Le%20Thi%20Tuyet%20L), [Li J](http://www.ncbi.nlm.nih.gov/pubmed/?term=Li%20J), [Lieberman P](http://www.ncbi.nlm.nih.gov/pubmed/?term=Lieberman%20P),[Lipworth BJ](http://www.ncbi.nlm.nih.gov/pubmed/?term=Lipworth%20BJ), [Renaud L](http://www.ncbi.nlm.nih.gov/pubmed/?term=Renaud%20L), [Magard Y](http://www.ncbi.nlm.nih.gov/pubmed/?term=Magard%20Y), [Magnan A](http://www.ncbi.nlm.nih.gov/pubmed/?term=Magnan%20A), [Mahboub B](http://www.ncbi.nlm.nih.gov/pubmed/?term=Mahboub%20B), [Majer I](http://www.ncbi.nlm.nih.gov/pubmed/?term=Majer%20I). MACVIA clinical decision algorithm in adolescents and adults with allergic rhinitis. [Journal of Allergy and Clinical Immunology](http://www.sciencedirect.com/science/journal/00916749) – 2016 - Available online 23 April 2016 - [doi:10.1016/j.jaci.2016.03.025](http://dx.doi.org/10.1016/j.jaci.2016.03.025)
9. Michael R. Edwards ,  James D. Porter ,  Musa Khaitov ,  Sergei Moshkovski ,  Lyn Jones , PhD 4 , Lee Roberts ,  Kalesh K.N. Anandamma ,  Iain Kilty ,  Ed Tate ,  Sebastian L. Johnston. Azithromycin Augments RV-Induced Type I And Type III Interferon Production Via Interaction With MAVS – 2016 – ATSJournals. Doi: [10.1164/ajrccm-conference.2016.193.1\_MeetingAbstracts.A6421](http://www.atsjournals.org/doi/pdf/10.1164/10.1164/ajrccm-conference.2016.193.1_MeetingAbstracts.A6421)
10. J. Bousquet, J. Farrell, G. Crooks, P. Hellings, E. H. Bel, M. Bewick, N. H. Chavannes, J. Correia de Sousa, A. A. Cruz, T. Haahtela, G. Joos, N. Khaltaev, J. Malva, A. Muraro, M. Nogues, S. Palkonen, S. Pedersen, C. Robalo-Cordeiro, B. Samolinski, T. Strandberg, A. Valiulis, A. Yorgancioglu, T. Zuberbier, A. Bedbrook, W. Aberer, M. Adachi. Scaling up strategies of the chronic respiratory disease programme of the European Innovation Partnership on Active and Healthy Ageing (Action Plan B3: Area 5) –July, 2016 – Clinical and Translational Allergy, 6:29. Doi: 10.1186/s13601-016-0116-9
11. Jean Bousquet, M. Bewick, A. Cano, P. Eklund, G. Fico, N. Goswami, N. A. Guldemond, D. Henderson, M. J. Hinkema, G. Liotta, A. Mair, W. Molloy, A. Monaco, I. Monsonis-Paya, A. Nizinska, H. Papadopoulos, A. Pavlickova, S. Pecorelli, A. Prados-Torres, R. E. Roller-Wirnsberger, D. Somekh, C. Vera-Muñoz, F. Visser, J. Farrell, J. Malva, M.R. Khaitov. Building bridges for innovation in ageing: Synergies between Action Groups of the EIP on AHA – 2016 – The Journal of nutrition, health & aging. Doi:10.1007/s12603-016-0803-1

**Patents**

1. Patent for an invention № **2462474 Russian Federation,** Method for preparing adducts of fullerene. Andreev SM, Bashkatova EN, Bashkatova YN, Khaitov MR, Petrukhina AO. Priority of invention 09.12.2010.
2. Patent for an invention № **2499610 Russian Federation,** Universal method for purifying air, fluids and surfaces using biocompatible microporous silicon for antiviral treatment in everyday life, in medicine and in industry. VY Timoshenko, Osminkina LA Kornilaeva GV Karamov EV, Khaitov MR, Shilovsky IP, Gaydarova AH, Dry GT, Batsev C . V. Priority of invention 28.12.2011.
3. Patent for an invention № **2357960 Russian Federation,** N, N-(Sulfonildi-1 ,4-phenylene) bis [(N, N-Dimethyl) Metiliminometan] 1, 2, 3, 4-Tetrahydro-6-methyl-2, 4-Dioxo-5-Pirimidinsulfonat possessing immunotropic activity. Khaitov MR, Tsyvkina GI, SN Sedov, Gomzhin AM, Savelyev EA Khimich GN Khimich NN. Priority of invention 15.11.2007.
4. Patent for an invention № **2264819 Russian Federation,** Аntiherpethetical pharmaceutical composition and method for preparing a formulation based on it. Barinskiy IF, Lazarenko AA Musaeva AR, RV Petrov, RM Khaitov, MR Khaitov. Priority of invention 30.10.2003.
5. Patent for an invention № **2548971 Russian Federation,** Method for preparing water nanodispersions of fullerene. Andreev SM, Bashkatova EN, Khaitov MR, Purgina DD. Priority of invention 22.04.2013.
6. Patent for an invention № **2549710 Russian Federation,** Method of purifying recombinant protein interferon factor type III. Khaitov MR, Sidorovich IG, Shevalie AF, Gasanov VA, Shilovsky IP. Priority of invention 29.06.2012
7. Patent for an invention № **2563989 Russian Federation,** Composition for the suppression of the expression of cytokine gene IL-4. Khaitov MR, Smirnov VV, Andreev SM, Sergeev IV, Maerle AV, Lobanova SB, Kalinina EV, Shilovsky IP. Priority of invention 20.11.2014.
8. Patent for an invention № **2572575 Russian Federation,** Agent for intracellular delivery of nucleic acid into mammalian cells. Andreev SM, Chupina NA, Shilovsky IP, Khaitov MR. Priority of invention 31.10.2014.

**Minor Publications**

1. M. Boldyreva, A.Zilov, D.Rakhimova, E.Groudakova, A.Boukina, I.Gouskova, D.Trofimov, R.Rouzybakiev, M.Khaitov, L.Alexeev. Distribution of the HLA DRB1, DQA1 and DQB1 gene specificities in Uzbek population //13th European Histocompatibility Conference, Abstracts, 13-17 April 1999 Crete, Greece. - P.32.
2. M. Khaitov, D. Trofimov, T. Petrova, K. Yakovleva, L. Alexeev. Investigation of respiratory virus role in asthma development. Allergy, 2001, suppl.68, v.56, p. 158.
3. M. Khaitov. Investigation of the role of respiratory syncitial virus in aetiology and pathogenesis of bronchial asthma. “Fundamental Science and Progress of Clinical Medicine”. Proceedings of Second Russian Conference of Young Scientists with International Participation (24-28 April, 2001, Moscow). 2001, v.1, p.179 (In Russian).
4. M. Khaitov, L. Alexeev, D. Trofimov, M. Boldyreva, T. Petrova, K. Yakovleva. Molecular diagnostics of viral infections in bronchial asthma. Report №2. Respiratory viruses influence on outbreaks of bronchial asthma. Aspects of MHC-associated susceptibility to virus-induced bronchial asthma. Allergy, Asthma and Clinical Immunology J, 2002, v. 6, p.17-21 (In Russian).
5. Khaitov M.R., Trofimov D.U., Petrova T.V., Yakovleva K.P., Alexeev L.P. Investigation of respiratory viruses role in asthma development. The Proceedings of EAACI 2002 Congress, Naples, 2002, chapter 58.
6. M. Khaitov. Acute respiratory viral infections and bronchial asthma. Cellular and molecular aspects of the problem. Journal of Microbiology, Epidemiology and Immunobiology. 2002, v. 4, p. 84-93 (In Russian).
7. M. Khaitov, L. Alexeev, D. Trofimov, M. Boldyreva, T. Petrova, K. Yakovleva. Development of new approaches to genetic prediction of virus-induced asthma. Proceedings of Fifth Congress “Modern Problems of Allergology, Immunology and Immunepharmacology” (12-14 November 2002, Moscow), v.2, p. 201 (In Russian).
8. Khaitov M.R., Trofimov D.U., Petrova T.V. Investigation of the role of respiratory viruses in the development of asthma. Allergy, 2002, vol.57, suppl.73, р.296.
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