

CURRICULUM VITAE

PERSONAL INFORMATION

Family Name: Shikova-Lekova
Birth Family Name: Shikova
First Name: Evelina
Degrees: MD, PhD
Citizenship: Sofia
Nationality: Bulgarian
Current Place of Work: National Center of Infectious and Parasitic Diseases, Sofia
Current Position: Head of the National Reference Laboratory “Herpes and Oncogenic Viruses”, Associate Professor
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EDUCATION

University study

Institution: Medical Institute - Varna, Bulgaria
Degree/Year conferred: Medical Doctor / 1978
Field of study: Medicine

Doctoral Study

Institution: Academy of Medical Sciences
Institute of Microbiology and Epidemiology “N.F.Gamalei”
Moscow, Russia

Degree/Year conferred: PhD/1983

Field of study: Virology

Board Certification in Clinical Virology 1985/ Bulgarian Medical Academy

PROFESSIONAL EXPERIENCE

- 1983-1985 Assistant Professor
Department of Microbiology
Medical Institute - Varna, Bulgaria
- 1985 Board Certification in Clinical Virology
- 1985-1995 Assistant Professor
Department of Molecular Oncovirology
Institute of General and Comparative Pathology
Bulgarian Academy of Sciences, Sofia, Bulgaria
- 1995-1997 Assistant Professor
Department of Oncovirology
Institute of Experimental Pathology and Parasitology
Bulgarian Academy of Sciences, Sofia
- 1997 Habilitation in the field of Virology
- 1997 -2010 Associate Professor
Department of Oncovirology
Institute of Experimental Pathology and Parasitology
Bulgarian Academy of Sciences, Sofia
- 2010 - 2012 Associate Professor
IEMPAM, Bulgarian Academy of Sciences, Sofia
- Since 2012 Head of the National Reference Laboratory “Herpes and
Oncogenic Viruses”, Associate Professor
National Center of Infectious and Parasitic Diseases, Sofia

INTERNATIONAL EXPERIENCE

- 1990-1992 Postdoctoral Training in Molecular virology
University of Texas
M.D. Anderson Cancer Center
Science Park - Research Division, Smithville, TX, US
- 2000-2001 Marie Curie Individual Fellowship
For Transfer of Knowledge
Institut fuer Virologie
Medizinische Fakultät Carl Gustav Carus
Technische Universität Dresden, Germany
- 2012 and 2014 EEA Grant
University of Tromsø, Faculty of Health Sciences

Tromsø, Norway

2016 EEA Grant
University of Oslo, Akershus University Hospital, The
Norwegian HPV Reference Laboratory, Norway

LANGUAGE SKILLS

Mother tongue: Bulgarian

Other languages: Fluent in English, Russian

TEACHING

- Organizer and lecture of virology courses for PhD students, master degree students and specializants - National Center of Infectious and Parasitic Diseases, Bulgarian Academy of Sciences, Sofia University “St. Kliment Ohridski”
- Board examiner of Bulgarian Ministry of Health for Virology

MEMBERSHIPS

Bulgarian Association of Microbiologists

Union of Scientists in Bulgaria

Bulgarian Medical Association

European Federation of Biotechnology

EXPERT ACTIVITIES

Member of the Scientific Council of the Institute of Experimental Pathology and Parasitology, Bulgarian Academy of Sciences (1998-2010)

Member of the Scientific Council of IEMPAM, Bulgarian Academy of Sciences (2010-2013)

Member of the Scientific Council of the The National Center of Infectious and Parasitic Diseases (Since 2013)

Member of the General Assembly of the Bulgarian Academy of Sciences (2008-2010)

Scientific Secretary of the Institute of Experimental Pathology and Parasitology, Bulgarian Academy of Sciences (2006-2010)

Member of the Expert commission at Bulgarian Ministry of Education and Science, Science and Business Project (Since 2010-2015)

Reviewer of numerous Bulgarian grant proposals, also foreign grants (EU, Czech Republic, USA)

Member of committees in connection with defence of doctoral theses and habilitation

PROJECTS COORDINATED DURING THE LAST 10 YEARS

- **National Science Fund of Bulgaria**, grant No. ДКОСТ01/9 (2017-2019)
“Study on the Potential Role of Some Viral Infections as Risk Factors in the Development of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome “
Project Coordinator
- **EU, COST Action CA15111** “European Network on Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (EUROMENE)” (2016-2020),
MC Member, WG5 Leader “Working Group on Conferences, Seminars, Training Schools”
- **National Science Fund of Bulgaria**, Grant No ДКОСТ 01/1 (2016)
“Study on the Potential Role of Some Viral Infections as Risk Factors in the Development of Chronic Lung Diseases”
Coordinator
- **EU, COST Action BM1201** “Developmental Origins of Chronic Lung Disease” (2012-2016)
MC Member
- **European Territorial Cooperation Programme Greece - Bulgaria** 2007-2013
“Cross Border Epidemiology of Sexually Transmitted Viral Infections in the Female Populations: Molecular Diagnostic Approaches (MEVIR)”
External Expert
- **European Agency of Health and Consumers – № EU 20091102 AURORA** (2010-2013)
“A European network on cervical cancer surveillance and control in the new Member States”
Bulgarian site coordinator
- **Operational Program “Development of human resources” - № BG051PO001-3.3.04/46** (2009-2011)
“Initiatives for mobilizing, stimulating and increasing of scientific investigations quality of young scientific potential in priority areas of medico-biological sciences”
Coordinator
- **Bilateral project with Lithuania/BAS** (2010-2012)
“Studies on human papillomavirus (HPV) infection and cervical cancer in Bulgaria using newly developed assays“
Bulgarian site coordinator
- **Lithuanian Science Council**, grant No. AUT-16/2010 (2010-2011)
“Development of new tools for improved laboratory diagnosis of human papillomavirus (HPV) infection and HPV-related cancer”
Bulgarian site coordinator

- **Bilateral project with Lithuania/BAS (2007-2009)**
“Prevalence of polyomaviruses BKV and JCV in Bulgaria: seroepidemiological study based on yeast-expressed virus-like particles”
Bulgarian site coordinator
- **National Science Fund of Bulgaria, grant No. L-1513 (2005-2009)**
“HPV and cancer: HPV genotypes associated with precancerous lesions and cancer of uterine cervix in Bulgarian women”
Coordinator

SELECTED SCIENTIFIC PUBLICATIONS

- **Shikova, E.**, Emin, D., Kumanova, A., Alexandrova, D., Shindov, M. Prevalence of polyomavirus KIPyV in patients with respiratory diseases. // *Problems of Infectious and Parasitic Diseases*, 2017, 45, 46-50.
- **Shikova E.**, Ivanova Z., Alexandrova D., Shindov M., Lekov A. Human papillomavirus prevalence in lung carcinomas in Bulgaria. // *Microbiology and Immunology* 2017, DOI: 10.1111/1348-0421.12535
- **Shikova E.**, Emin D., Alexandrova D., Shindov M., Kumanova A., Lekov A., Moens U. Detection of Merkel Cell Polyomavirus in Respiratory Tract Specimens. // *Intervirology* 2017, DOI:10.1159/000479372
- Scheibenbogen, C., Freitag, H., Blanco, J., Capelli, E., Lacerda, E., Authier, J., Meeus M., Castro-Marrero, J., Nora-Krukke, Z., Oltra, E., Strand, E.B., **Shikova, E.**, Sekulic, S., Murovska, M. The European ME/CFS Biomarker Landscape project - an initiative of the European network EUROMENE. // *Journal of Translational Medicine*, 2017, 15, 162
- Стайкова Ж, Беловска Т, Мурад А, Какид С, Начева А, Шикова Е. Полово предавани вирусни инфекции при жени от Кърджали. Превантивна медицина, 2017, 2(12), 22-24
- Пишмишева, М., Стойчева, М, **Шикова, Е**, Петева, К, Велкова, Д, Карамешева, М. Инфекциозна моноклеоза в Пазарджишка област – клинични прояви. // *Наука Инфектология Паразитология*, 2016, 1, <http://publishing.arbilis.com/?p=2659>
- Staykova, J., Belovska, T., Murad, A., Kakid, S., Nacheva, A., **Shikova, E.** Cervical Viral Infections among Asymptomatic Bulgarian Women. // *Cent Eur J Public Health*, 2016; 24, 176.
- **Shikova, E.**, Kyosseva, S., Raleva, S., Kumanova, A., Muhtarova, M., Nikolova, M. Lack of type-specific antibodies to herpes simplex virus in a patient with genital herpes: a case report. // *Problems of Infectious and Parasitic Diseases*, 2015, 43, 23.
- Ivanova, Z., **Shikova, E.** Oncogenic activities of HPV proteins. // *Experimental models and methods in biomedical research - sixth workshop, Sofia, 2015*, 122.
- Emin, D., **Shikova, E.** Novel human respiratory polyomaviruses KIPyV and WUPyV – basic characteristics and potential role in human pathology. // *Experimental models and methods in biomedical research - sixth workshop, Sofia, 2015*, 128.
- Panayotova-Pencheva, M., Ivanova, Z., **Shikova, E.** Molecular genetic data of lung worm *Varestrongylus sagittatus* (Nematoda: Protostrongylidae). // *C. R. Acad. Bulg. Sci.*, 2014, 67, 57.

- Ferdov, S., **Shikova, E.**, Ivanova, Z., Dimova, L., Nikolova, R. and Shivachev, B. A microporous titanasilicate for selective killing of HeLa cancer cells. // *RSC Advances*, 2013, 3, 8843.
- **Shikova, E.**, Ivanova, Z. HPV DNA testing for identification of HPV infection. *Experimental models and methods in biomedical studies - fourth workshop, Sofia*, 2013, 18.
- Ilardi, M., **Shikova, E.**, AuroraVA European Network on Cervical Cancer. Surveillance and Control in the New Member States. Analysis of the local contexts. 2012. Available at: http://www.aurora-project.eu/upload/deliverables/D3__traduzioni/D3_ENG.pdf.
- **Shikova, E.**, Ivanova, Z., Zvirbliene, A., Ganchev, G. Human papillomavirus infection after treatment for high-grade cervical intraepithelial neoplasia. // *Biotechnology & Biotechnological equipment*, 2012, Volume 26, Number 1, 85.
- Simanaviciene, V., Pependikyte, V., Gudleviciene, Z., Armalyte, S., Kirkutyte, A., **Shikova, E.**, Zvirbliene, A. Studies on the expression of p16INK4A mRNA in cervical dysplasias. // *Biotechnology & Biotechnological equipment*, 2012, 26/1, 80.
- Lasickiene, R., Gedvilaite, A., Norkiene, M., Simanaviciene, V., Sezaite, I., Dekaminaviciute, D., **Shikova, E.** and Zvirbliene, A. The use of recombinant pseudotype virus-like particles harbouring inserted target antigen to generate antibodies against cellular marker p16INK4A. // *Scientific World Journal*, 2012, 263737.
- **Shikova, E.**, Ivanova, Z. Cervical Cancer: Molecular Mechanisms of HPV-induced Carcinogenesis. // *Acta Morphologica et Anthropologica*, 2012, 18, 163.
- Dimitrov, P., Simeonov, K., Todorova, K., Ivanova, Z., Toshkova, R., **Shikova, E.**, and Russev, R. Pathological Features of Experimental Bovine Leukaemia Viral (BLV) Infection in Rats and Rabbits. // *Bull Vet Inst Pulawy*, 2012, 56, 115.
- **Shikova, E.**, Todorova, I., Ganchev, G., Kouseva-Dragneva, V. and Kalascheva-Zaimova, P. Prevalence of Human Papillomavirus Infection among Female Sex Workers in Bulgaria. // *International Journal of STD & AIDS*, 2011, 22, 278.
- **Shikova, E.** and Dimitrov, P. Structure and morphogenesis of murine neuropathogenic retrovirus Ly/Ya–MuLV – electron microscopic study. *110 years NDNIVMI, Sofia*, 2011, 343.
- Simeonov, K., **Shikova, E.**, Peshev, P. Detection of chicken anemia virus (CAV) DNA by PCR in experimentally infected chickens. *110 years NDNIVMI, Sofia*, 2011, 279.
- Todorova, I., Ganchev, G., **Shikova, E.** Human papillomavirus prevalence in invasive cervical carcinomas in Bulgaria. // *J Clin Pathol*, 2010, 63, 1121.
- **Shikova, E.** and Rethwilm, A. Multinucleated giant cells formation induced by MULV/FV hybrid viruses. // *Biotechnology & Biotechnological equipment*, 2009, 23,874.
- Todorova, I., Iliev, I., Gedvilaitė, A., Zvirbliene, A., Sasnauskas, K. and **Shikova, E.** ELISA using yeast-expressed polyomavirus-like particles detects serum antibodies. // *Biotechnology & Biotechnological Equipment*, 2009, 23, 806.
- **Shikova, E.**, Todorova, I., Ganchev, G. and Kouseva-Dragneva, V. Detection and typing of human papillomaviruses by PCR. // *Biotechnology & Biotechnological Equipment*, 2009, 23, 878.

- **Shikova, E.**, Ganchev, G., Todorova, I., Kouzeva-Dragneva, V. PCR with the E6/E7 primer sets improves detection of human papillomavirus type 16 DNA in cervical samples. // *The Cyprus Journal of Sciences*, 2007, 5, 79.
- Alexandrova, R., **Shikova, E.**, Yordanova, P., Alexandrov, I., Alexandrov, M., Altanerova, V. Comparative studies of two permanent cell lines obtained from Mc29 myelocytomatosis virus- induced chicken hepatoma. *Tradition and contemporaneity in veterinary medicine, Sofia*, 2006, 94.
- Russev, R., **Shikova, E.**, Dimitrov, P., Portetelle, D. et al. Bovine leukemia as an experimental model of viral T-cell leukemia in humans. // *The Cyprus Journal of Sciences*, 2005, 3, 47.
- **Shikova, E.**, Alexandrova, R. Human Papillomavirus DNA Testing in Cervical Cancer. // *Experimental Pathology and Parasitology*, 2005, 8, 2, 60.
- **Shikova-Lekova, E.**, Lindemann, D., Pietschmann, T., Juretzek, T., Rudolph, W., Herchenroder, O., Gelderblom, H., Rethwilm, A. Replication-competent hybrids between murine leukemia virus and foamy virus. // *J Virology*, 2003, 77, 13, 7677.
- Roussev, R., Kettmann, R., **Shikova, E.**, Portetelle, D., Alevandrov, I., Dimitrov, P., Polianova, M. Expression of BLV Tax protein in lymphocytes and COS cells. // *Experimental Pathology and Parasitology*, 2003, 6/11, 81.
- **Shikova, E.** Retroviral vectors for gene transfer: development, properties and application. // *Experimental Pathology and Parasitology*, 2003, 6/12, 40.
- Roussev, R., **Shikova, E.**, Portetelle, D., Iordanova, P. Mutations in the bovine leukemia virus transmembrane protein affect intracellular transport of the virus envelope protein. // *Experimental Pathology and Parasitology*, 2002, 5/9, 49.
- Ivanov, I., Sainova, I., **Shikova, E.**, Troev, K. Cytotoxicity induced by 3-ethyl-2-hydroxy-2-oxa-1,4,2-oxazaphosphorinane and α -ethyl- α -N-(hydroxyethylamino)methylphosphonic acid in vitro. // *Experimental Pathology and Parasitology*, 2001, 4/5, 26.
- **Shikova, E.**, Simeonov, K., Ivanov, I., Stefanova, E. Cytotoxicity induced by cypermethrin in vitro. // *Experimental Pathology and Parasitology*, 1999, 2, 14.
- Alexandrova, R., **Shikova, E.** Parvovirus B19. // *Experimental Pathology and Parasitology*, 1999, 3, 38.
- Nikolova, E., Tashkova, S., **Shikova, E.**, Russell, M. Transfer of immunological responsiveness to the spleen of new borns by antigen specific T milk lymphocyte clones. // *C. R. Acad. Bulg. Sci.*, 1998, 51, 12.
- Roussev, R., **Shikova, E.**, Sovova, V., Stokrova, J., Alexandrov, M. Electron-microscopic immunocytochemical study of the intracellular transport of the viral glycoproteins in ts1, a mutant of Moloney murine leukemia virus. // *Folia Biologica (Praha)*, 1998, 44, 123.
- **Shikova, E.**, Wong, P. Ly/Ya MuLV, a paralytogenic murine leukemia virus, has an enhanced ability to replicate in FVB/N mice. // *C. R. Acad. Bulg. Sci.*, 1997, 50, 9-10, 121.

- Nikolova, E., Tashkova, S., Marincheva, G., Kozovska, M., **Shikova, E.**, Bratanov, M., Russell, M.W. Antigen-specific milk T lymphocyte clones. Cytochemical and functional characterization. // *C. R. Acad. Bulg. Sci.* 1997, 50, 8, 23.
- Krill, A., Alexandrova, R., **Shikova, E.**, Ivanov, I., Kirev, T. A new, unrecognized oncogenic property of the osteopetrosis virus strain Pts56. // *C. R. Acad. Bulg. Sci.*, 1997, 50, 1, 65.
- Roussev, R., Polianova, M., Borissova, L., Tacheva, T., **Shikova, E.**, Bojkov, S. Experimental attempt for inducing a hepatocarcinoma in birds with aflatoxin B1. // *C. R. Acad. Bulg. Sci.*, 1997, 50, 4, 133.
- **Shikova, E.**, Kozovska, M. Central nervous system cell types infected by HIV-1: role in pathogenesis of AIDS dementia. // *Medicinski pregled*, 1997, 3, 3.
- **Shikova, E.**, Roussev, R., Alexandrov, M. Ultrastructural study on the intracellular transport of the viral glycoproteins of the Moloney murine leukemia virus and its neurovirulent mutant ts1. // *C. R. Acad. Bulg. Sci.*, 1996, 49, 4, 109.
- Kozovska, M., Nikolova, E., **Shikova, E.** Can ovalbumin serve as a control in experimental allergic encephalomyelitis. // *C. R. Acad. Bulg. Sci.*, 1996, 49, 1, 97.
- **Shikova, E.**, Kozovska, M., Wong, P. Replication of Ly/Ya murine leukemia virus in BALB/c mice. // *C. R. Acad. Bulg. Sci.*, 1995, 48, 9-10, 159.
- Kozovska, M., **Shikova, E.**, Nikolova, E. Ia antigen expression by mast cells within the central nervous system during the course of acute experimental allergic encephalomyelitis. // *C. R. Acad. Bulg. Sci.*, 1995, 48, 11-12, 123.
- **Shikova, E.**, Wong, P. Cell-cultural characteristics of the Ly/Ya murine leukemia virus. // *C. R. Acad. Bulg. Sci.*, 1994, 47, 2, 113.
- **Shikova, E.**, Kozovska, M. Cytoplasmic assembly and accumulation of Moloney murine leukemia virus in astrocytes. // *C. R. Acad. Bulg. Sci.*, 1994, 47, 12, 115.
- **Shikova, E.**, Yuen, P. Deletional analysis within the U3 region of Moloney murine leukemia virus long terminal repeat. // *C. R. Acad. Bulg. Sci.*, 1993, 46, 11, 109.
- **Shikova, E.**, Lin, P., Saha, K., Brooks, B., Wong, P. Correlation of specific virus-astrocyte interactions and cytopathic effects induced by ts1, a neurovirulent mutant of Moloney murine leukemia virus. // *J Virology*, 1993, 67, 3, 1137.
- Wong, P., **Shikova, E.**, Lin, Y., Saha, K., Szurek, P., Stoica, G., Madden, R., Brooks, B. Murine leukemia virus induced central nervous system diseases. // *Leukemia*, 1992, 6, 161.
- **Shikova, E.** Neuroparalytic murine leukemia viruses. // *General and comparative pathology*, 1992, 30, 59.
- **Shikova, E.**, Yakimov, M. Paralysis, induced by isolated in Bulgaria lympholeukosis virus Ly/Ya. // *General and comparative pathology*, 1991, 27, 3.
- Staykova, M., Kozovska, M., **Shikova, E.**, Goranov, I. Modulation of experimental allergic encephalomyelitis by host-versus-graft reaction: a clinicopathological study. // *J.Neuroimmunol*, 1989, 25, 117.
- **Shikova, E.**, Bikovski, A. F. Interaction of SMRV with some infectious viruses. // *General and comparative pathology*, 1989, 25, 39.

- **Shikova, E.**, Ivanov, I., Mladenov, Z. Type A oncornavirus-like particles in turkey bone marrow cells transformed by avian leukemia virus. // *J Ultrastruct Mol Struct Res*, 1988, 98, 294.
- **Shikova, E.** Ultrastructure of the retrovirus of human myeloma cells. // *Vopr Virusol*, 1983, 28(6), 714. (Russian)
- Bikovski, A. F., **Shikova, E.**, Klizunova, N., Erpandes-Verden, D., Gosteva, V., Zahalova, V., Cherepanceva, E. New data of retrovirus structure. *Virus raka I leukoza. Moskva, 1982, 76.*