

# Index of articles published in the journal «Problems of Virology» in 2021

## REVIEWS

- Botvinkin A.D.** Bats and viruses: interdisciplinary issues.\* 4, 259-268
- Dolzhikova I.V., Shcherbinin D.N., Logunov D.Yu., Gintsburg A.L.** Ebola virus (*Filoviridae: Ebolavirus: Zaire ebolavirus*): fatal adaptation mutations. 1, 7-16
- Garбуzenko D.V.** The role of antiviral therapy in the management of patients with liver cirrhosis associated with chronic HBV and HCV infection. 5, 331-339
- Isaeva O.V., Kyuregyan K.K., Mikhailov M.I.** Animal delta-like viruses (*Kolmioviridae: Deltavirus*) and the origin of the human hepatitis D virus (HDV). 5, 340-345
- Khafizov K.F., Petrov V.V., Krasovitov K.V., Zolkina M.V., Akimkin V.G.** Rapid diagnostics of novel coronavirus infection by loop-mediated isothermal amplification. 1, 17-28
- Lenshin S.V., Romashin A.V., Vyshemirskey O.I., Lvov D.K., Alkhovsky S.V.** Bats of the subtropical climate zone of the Krasnodar Territory of Russia as a possible reservoir of zoonotic viral infections. 2, 112-122
- Pashkov E.A., Korchevaya E.R., Faizuloev E.B., Svitich O.A., Pashkov E.P., Nechaev D.N., Zverev V.V.** Potential of application of the RNA interference phenomenon in the treatment of new coronavirus infection COVID-19. 4, 241-251
- Petrova N.V., Ganina K.K., Tarasov S.A.** Susceptibility of animal species to experimental SARS-CoV-2 (*Coronaviridae: Coronavirinae: Betacoronavirus; Sarbecovirus*) infection. 2, 103-111
- Popova O.D., Zubkova O.V., Ozharovskaya T.A., Zrelkin D.I., Voronina D.V., Dolzhikova I.V., Shchelyakov D.V., Naroditsky B.S., Logunov D.Yu., Gintsburg A.L.** Review of candidate vaccines for the prevention of Lassa fever. 2, 91-102
- Saleeva D.V., Zasukhina G.D.** Prospects for using low-dose radiation in the complex therapy for COVID-19. 4, 252-258
- Sizikova T.E., Lebedev V.N., Borisovich S.V.** The molecular evolution of Dabie bandavirus (*Phenuiviridae: Bandavirus: Dabie bandavirus*), the agent of severe fever with thrombocytopenia syndrome. 6, 409-416
- Zainutdinov S.S., Sivolobova G.F., Loktev V.B., Kochneva G.V.** Mucosal immunity and vaccines against viral infections. 6, 399-408

## ORIGINAL RESEARCHES

- Akimkin V.G., Petrov V.V., Krasovitov K.V., Borisova N.I., Kotov I.A., Rodionova E.N., Cherkashina A.S., Kondrasheva L.Yu., Tivanova E.V., Khafizov K.F.** Molecular methods for diagnosing novel coronavirus infection: comparison of loop-mediated isothermal amplification and polymerase chain reaction.\* 6, 417-424
- Alimbarova L.M., Ambrosov I.V., Matelo S.K., Barinsky I.F.** Antiviral activity of the organic germanium complex with aciclovir against the herpes simplex virus (*Herpesviridae: Alphaherpesvirinae: Simplexvirus: Human alphaherpesvirus 1/2*) in the *in vitro* and *in vivo* systems. 5, 368-382
- Borisovich G.V., Kirillova S.L., Shatokhina I.V., Lebedev V.N., Shagarova N.V., Syromyatnikova S.I., Andrus A.F., Kovalchuk E.A., Kirillov V.B., Bespalov M.L., Petrov A.A., Kovalchuk E.V., Pantyukhov V.B., Kutayev D.A., Borisovich S.V.**

**Kuznetsov S.L.** Flow cytometry evaluation of the rhesus monkey cellular immunity following the Zaire ebolavirus (*Filoviridae: Ebolavirus: Zaire ebolavirus*) experimental infection. 4, 289-298

**Borisova N.I., Kotov I.A., Kolesnikov A.A., Kapteleva V.V., Speranskaya A.S., Kondrasheva L.Yu., Tivanova E.V., Khafizov K.F., Akimkin V.G.** Monitoring the spread of the SARS-CoV-2 (*Coronaviridae: Coronavirinae: Betacoronavirus; Sarbecovirus*) variants in the Moscow region using targeted high-throughput sequencing.\* 4, 269-278

**Chepur S.V., Alekseeva I.I., Vladimirova O.O., Myasnikov V.A., Tyunin M.A., Ilinskii N.S., Nikishin A.S., Shevchenko V.A., Smirnova A.V.** Specific features of the pathology of the respiratory system in SARS-CoV-2 (*Coronaviridae: Coronavirinae: Betacoronavirus: Sarbecovirus*) infected Syrian hamsters (*Mesocricetus auratus*). 6, 442-451

**Dogadov D.I., Korzaya L.I., Kyuregyan K.K., Karlsen A.A., Mikhailov M.I.** Markers of viral hepatitis E (*Hepeviridae, Orthohepevirus, Orthohepevirus A*) in the imported Old World monkeys. 3, 182-188

**Gaidai E.A., Kryshen' K.L., Jain (Korsakova) E.A., Demchenko D.V., Kargopol'tseva D.R., Katel'nikova A.E., Gaidai D.S., Balabanyan V.Yu.** Study of the specific toxic effects of the substance 1-[2-(2-benzoylphenoxy)ethyl]-6-methyluracil, the original non-nucleoside inhibitor of human immunodeficiency virus type 1 (*Retroviridae: Orthoretrovirinae: Lentivirus: Human immunodeficiency virus 1*) reverse transcriptase. 4, 279-288

**Kalnina L.B., Selimova L.M., Kaplina E.N., Nosik D.N.** Expression of integrins  $\beta 1$ ,  $\alpha 4$  and cell adhesion molecule ICAM-1 in the presence of sodium deoxyribonucleate with ferrum complex (DNA-Na-Fe) by MT-4 cells transformed by human T-lymphotropic virus type 1 (*Retroviridae: Orthoretrovirinae: Deltaretrovirus: Human T-lymphotropic virus type 1*). 3, 227-232

**Korzaya L.I., Dogadov D.I., Goncharenko A.M., Karlsen A.A., Kyuregyan K.K., Mikhailov M.I.** Prevalence of laboratory markers of human respiratory viruses in monkeys of Adler primate center. 6, 425-433

**Kostinov M.P., Zhuravlev P.I., Loktionova M.N., Shmitko A.D., Polischook V.B., Tatarinchik A.A., Smirnova O.A., Fursov I.S.** Comparison of measles incidence in different age groups with specific humoral immunity intensity. 6,

**Kuznetsova A.I., Gromov K.B., Kireev D.E., Shlykova A.V., Lopatukhin A.E., Kazennova E.V., Lebedev A.V., Tumanov A.S., Kim K.V., Bobkova M.R.** Analysis of Tat protein characteristics in human immunodeficiency virus type 1 sub-subtype A6 (*Retroviridae: Orthoretrovirinae: Lentivirus: Human immunodeficiency virus-1*). 6, 452-464

**lobanova V.A., Klyukina V.I.** Optimization of rabies (*Rhabdoviridae: Lyssavirus*) dog vaccination schedule using a mathematical model.\* 5, 354-367

**Loginova S.Ya., Shchukina V.N., Savenko S.V., Borisovich S.V.** *In vitro* activity of human recombinant alpha-2b interferon against SARS-CoV-2 virus. 2, 123-128

**Marchenko V.A., Barashkova S.V., Zelinskaya I.A., Toropova Y.G., Ramsay E.S., Zhilinskaya I.N.** Modulation of endothelial factors activity in human endothelial cells in influenza A(H1N1)pdm09 virus infection. 3, 198-210

**Mazloum A., Igolkin A.S., Zinyakov N.G., van Schalkwyk A.,**

\*The article is published in Russian and English on the journal's website: <https://virusjour.elpub.ru/jour>

- Vlasova N. N.** Changes in the genome of African swine fever virus (*Asfarviridae: Asfivirus: African swine fever virus*) associated with adaptation to reproduction in continuous cell culture. 3, 211-216
- Mel'nikova O.V., Adel'shin R.V., Lopatovskaya K.V., Trushina Yu.N., Yakovchits N.V., Andaev E.I.** Biological properties and phylogenetic relationships of tick-borne encephalitis virus (*Flaviviridae, Flavivirus*) isolates of siberian subtype isolated in the south of East Siberia in modern period. 4, 310-321
- Naidenova E.V., Kartashov M.Yu., Zakharov K.S., Shevtsova A.P., Diallo M.G., Nourdine I., Bah M.B., Boumbaly S., Scherbakova S.A., Kutyrev V.V.** Study of the prevalence of antibodies to some arboviruses in the population of the Republic of Guinea.\* 5, 346-353
- Novikov D.V., Melentev D.A., Mokhonov V.V., Kashnikov A.Yu., Novikova N.A., Lapin V.A., Mokhonova E.V., Novikov V.V.** Construction of norovirus (*Caliciviridae: Norovirus*) virus-like particles containing VP1 of the Echoivirus 30 (*Picornaviridae: Enterovirus: Enterovirus B*). 5, 383-389
- Popova A.A., Domonova E.A., Pokrovskaya A.V., Shipulina O.Yu., Pokrovsky V.V.** Prevalence of human papillomavirus of high carcinogenic risk based on the results of screening of three anatomical locations in men, stratified by sexual behavior and HIV status. 3, 217-226
- Popova A.Y., Smirnov V.S., Ezhlova E.B., Melnikova A.A., Samoilova L.V., Lyalina L.V., Semenova E.V., Gursky M.A., Aksanova E.A., Arbuzova T.B., Totolyan A.A.** Herd immunity to SARS-COV-2 in the Novosibirsk population amid the COVID-19 pandemic. 4, 299-309
- Sashina T.A., Morozova O.V., Epifanova N.V., Kashnikov A.U., Leonov A.V., Novikova N.A.** Molecular monitoring of the rotavirus (*Reoviridae: Sedoreovirinae: Rotavirus: Rotavirus A*) strains circulating in Nizhny Novgorod (2012–2020): detection of the strains with the new genetic features. 2, 140-151
- Solomay T.V., Semenenko T.A., Filatov N.N., Vedunova S.L., Lavrov V.F., Smirnova D.I., Gracheva A.V., Faizuloev E.B.** Reactivation of Epstein–Barr virus (*Herpesviridae: Lymphocryptovirus, HHV-4*) infection during COVID-19: epidemiological features. 2, 152-161
- Sorokin E.V., Tsareva T.R., Rudneva I.A., Timofeev B.I., Lysenko A.V., Balanova M.A., Artemov E.K., Grebennikova T.V., Timofeeva T.A.** Monoclonal antibodies to hemagglutinin of influenza A/H7N3 virus (*Orthomyxoviridae: Alphainfluenzavirus: Influenza A virus*). 3, 189-197
- Trifonova T.S., Moiseenko A.V., Bourkaltseva M.V., Shaburova O.V., Shaytan A.K., Krylov V.N., Sokolova O.S.** DNA mapping in the capsid of giant bacteriophage phiEL (*Caudovirales: Myoviridae: Elvirus*) by analytical electron microscopy.\* 6, 434-441

## TO HELP THE VIROLOGIST

**Nikitina N.V., Leonov I.K., Yavdoshak L.I.** Interferonogenic activity of the strain BH-3 duck hepatitis virus type I (*Picornaviridae: Avihepatovirus: Avihepatovirus A*). 2, 162-166

## ANNIVERSARY DATES

To the 90<sup>th</sup> birth anniversary of Dmitry Konstantinovich Lvov, Academician of Russian Academy of Sciences. 3, 173-181  
 To the 90<sup>th</sup> birth anniversary of Felix I. Ershov, Full member of Russian Academy of Sciences. 5, 390-392

## OBITUARY

Hans-Dieter Klenk. 3, 233-234  
 Igor' F. Barinsky. 4, 323-324  
 Viktor P. Grachev. 4, 322

\* The article is published in Russian and English on the journal's website: <https://virusjour.elpub.ru/jour>