

eISSN 2706-7742

NATIONAL ACADEMY OF AGRARIAN SCIENCES OF UKRAINE
Institute of Veterinary Medicine

VETERINARY BIOTECHNOLOGY

BULLETIN

ISSUE 44

**KYIV
2024**

www.vetbiotech.kiev.ua

UDC 619:663.1

Bulletin is considered and approved for publication by decision of the:

Academic Council of the Institute of Veterinary Medicine NAAS (protocol No. 7 of 27.06.2024).

EDITORIAL BOARD:

Editor-in-Chief:

Nychyk S.A. – Dr Sc. (Vet. Med.), Prof., Associate Member of the NAAS, director of the IVM NAAS.

Executive Secretary:

Hudz N.V. – PhD of Vet. Science, Senior Researcher, IVM NAAS.

Members of the editorial board:

Vlizlo V.V. – Dr. Sc. (Vet. Med.), Prof., Academician of the NAAS, Stepan Gzhytskyi National University of Veterinary Medicine and Biotechnologies Lviv, Lviv, Ukraine;

Kotsiumbas I.Ya. – Dr Sc. (Vet. Med.), Prof., Academician of the NAAS, Lviv, Ukraine;

Tarasov O.A. – PhD, Senior Researcher, IVM NAAS, Kyiv, Ukraine;

Mezhenskyi A.O. – Senior Researcher, Dr Sc. (Vet. Med.), IVM NAAS, Kyiv, Ukraine;

Krytsia Y.P. – PhD, Assistant Professor, IVM NAAS, Kyiv, Ukraine;

Kyivska G.V. – PhD, Senior Researcher, SSRILDVSE, Kyiv, Ukraine;

Eric Bortz – PhD, prof., Assistant Professor, University of Alaska Anchorage, USA;

Enciu V.Z. – PhD, ScD, Prof., Dr Habil. in Med.-Vet. Sci., Prof., Agrarian State University of Moldova, Republic of Moldova.

Bulletin of Veterinary Biotechnology is the online scientific professional publications edition in the field of veterinary science, which is included to the **category B** of the list of scientific publications, approved by the Ministry of Education and Science of Ukraine (order № 920 of 26.06.2024).

Bulletin of Veterinary Biotechnology is registered by the National Council of Television and Radio Broadcasting of Ukraine. Media identifier R40-03174. Decision No. 1278, protocol No. 13 of 11.04.2024.

Bulletin of Veterinary Biotechnology is included in the scientometric databases Index Copernicus and Google Scholar.

Editorial address: Institute of Veterinary Medicine of the NAAS, 30, Donetska Str., Kyiv, 03151.

Tel. +38(044) 245-78-05, **e-mail: vetbiotechnologia@gmail.com**.

Website of the Bulletin of Veterinary Biotechnology: **www.vetbiotech.kiev.ua**.

Electronic Scientific Journal

VETERINARY BIOTECHNOLOGY

BULLETIN

ISSUE 44

Founder:

Institute of Veterinary Medicine of the NAAS
Editorial address: 30 Donetska St., Kyiv, 03151
Ph/fax: +38 (044) 245 78 05
Website: <http://vetbiotech.kiev.ua/en/main>
Editorial e-mail: vetbiotechnologia@gmail.com