

Requirements for the authors of the journals of the National academy of sciences of the Republic Kazakhstan

Articles are sent to reviewer for examination.

ATTENTION! OBLIGATORY! To post an article on Internet-resource, you should specify the sixteen-digit ORCID code of each author. In the absence of this code, you should register on the site <https://orcid.org/>, registration will take 1 minute. Screenshots are not accepted, in the beginning of the article, specify the author's name with the full ORCID iD identifier and a link to the public record, for example: <https://orcid.org/0000-0000-0000-0000> Full name, e-mail. The number of authors in the article is allowed in the case of participation in the topic. It has been substantiated that deviations from the ethical standards arise in the areas of addressing such issues as: (1) who should be included in the co-authors and how to determine the personal contribution of each co-author? (2) in what sequence should the names of the co-authors be given? (3) Who should not be included in co-authorship, but to be expressed a gratitude?

NAS RK proceeds from the understanding that tracking the publication ethics is an important aspect of the editorial work and the review process. Measures against such unfair practices such as deception, plagiarism and other forms are the responsibilities of each author, as well as the institutions that participate in the publication process.

Authorship

Authors should indicate the contribution of each author. This is indicated at the end of the article, in the Information about the authors.

Authorship should be based on the following criteria: 1) the author made a significant contribution to the concept and design of the research, data acquisition or analysis and interpretation, 2) the author wrote the first version of the article or critically revised it for important intellectual content, 3) the author approved the final version of the article before submitting it for publication. All authors must meet all three criteria 1, 2 and 3.

Obtaining financing for research, data collection, or general management of the research group separately is not a sufficient contribution to identifying a person as an author for works presented in the NAS RK.

Acknowledgements

All persons who have contributed to this study but who do not meet the listed criteria for authorship should be listed in the "Acknowledgment" section. Examples of persons to whom appreciation can be expressed include those who have provided technical assistance, assistance in writing the text. Appreciation can also be expressed to the head of the department or chair who provided general support.

Conflict of interest

It is expected that the authors take into account known and potential sources of conflict of interest. Authors should indicate their place of work and source of

research funding. If there is no conflict of interest, this should also be clearly indicated. In addition to payment for publication, the payment of the admission fee for registration in DOI will be 9,000 tenge for each author.

Giving the links to recently published articles, self-citing are allowed in a minimum quantity. There are obligatory to indicated references to articles from the journal of NAS RK to which the article is submitted (see the Table below).

In the article it is necessary to refer to the previously published articles in our journals and indicate the DOI:

News of NAS RK. Series of geology and technical sciences – http://www.geolog-technical.kz/index.php/en/archive	https://doi.org/10.32014/2018.2518-170X ISSN 2518-170X (Online), ISSN 2224-5278 (Print)
News of NAS RK. Series of chemistry and technology http://chemistry-technology.kz/index.php/en/arhiv	https://doi.org/10.32014/2018.2518-1491 ISSN 2518-1491 (Online), ISSN 2224-5286 (Print)
News of NAS RK. Series of physico-mathematical http://physics-mathematics.kz/index.php/en/archive	https://doi.org/10.32014/2018.2518-1726 ISSN 2518-1726 (Online), ISSN 1991-346X (Print)
Bulletin of NAS RK http://www.bulletin-science.kz/index.php/en/arhive	https://doi.org/10.32014/2018.2518-1467 ISSN 2518-1467 (Online), ISSN 1991-3494 (Print)
Reports of NAS RK http://reports-science.kz/index.php/en/archive	https://doi.org/10.32014/2018.2518-1483 ISSN 2518-1483 (Online), ISSN 2224-5227 (Print)
News of NAS RK. Series of biology and medicine http://biological-medical.kz/index.php/en/archive	https://doi.org/10.32014/2018.2518-1629 ISSN 2518-1629 (Online), ISSN 2224-5308 (Print)
News of NAS RK. Series of social sciences and humanities http://soc-human.kz/index.php/en/arhiv	https://doi.org/10.32014/2018.2224-5294 ISSN 2224-5294
News of NAS RK. Series of agrarian sciences http://agricultural.kz/index.php/en/arhiv	https://doi.org/10.32014/2018.2224-526X

	ISSN 1991-3494 2224-526X
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In an article **it's required** to add references to the previously published articles in our journals №5, No. 6 – 2018, and the following publications of 2019. Addresses of sites used to search for articles are listed in the left column of the table below; in the headline of an article it's also required to add DOI, ISSN (Example **1**), list of authors in the list of literature, theme, full title of journal, volume, number, year and pages(Example **2**). (underlined in bluecolor):

1)

ISSN 2224-5278 Series of Geology and Technical Sciences. 6. 2018

NEWS
OF THE NATIONAL ACADEMY OF SCIENCES OF THE REPUBLIC OF KAZAKHSTAN
SERIES OF GEOLOGY AND TECHNICAL SCIENCES

ISSN 2224-5278

<https://doi.org/10.32014/2018.2518-170X.34>

Volume 5, Number 431 (2018), 47 – 54

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2)

[19] Ivashov V.I., Kapovsky B.R., Plyasheshnik P.I., Pchelkina V.A., Iskakova E.L., Nurmukhanbetova D.E. (2018) Mathematical simulation of one-stage grinding of products frozen in blocks. News of the National Academy of Sciences of the Republic of Kazakhstan. Series of geology and technical sciences. Volume 5, Number 431 (2018), PP.48–65. <https://doi.org/10.32014/2018.2518-170X.9> ISSN 2518-170X (Online), ISSN 2224-5278 (Print)

Dear authors,

In accordance with the Decree of the President of the Republic of Kazakhstan No. 205, dated March 1, 2016, "On approval of the State Program for the Development of Education and Science of the Republic of Kazakhstan for 2016-2019" (hereinafter referred to as the Program), the Presidium of the National Academy of Sciences of the Republic of Kazakhstan enacted the amendments to the Rules and requirements for articles published in the journals of the NAS RK (Resolution of the Presidium of NAS RK No. 3 dated 22.10.2018).

In pursuance of the aims and objectives of the Program, NAS RK is working on the inclusion of the journals in the databases of Scopus, Springer Nature, Clarivate Analytics. At present, the journals of NAS RK is passing the evaluation stage by the Content Scopus Advisory board (CSAB), Springer Nature and Clarivate Analytics.

National academy of sciences of the Republic of Kazakhstan informs:

The following 4 publications of NAS RK have been selected for indexing and abstracting by Clarivate Analytics in **Emerging Sources Citation Index** since January 2018 the indexing for the whole 2017.

1. **Bulletin of NAS RK**
2. **News of NAS RK. Series of Chemistry and Technology**
3. **News of NAS RK. Physico-mathematical series**
4. **News of NAS RK. Series of Geology and Technical sciences**

News of NAS RK. Series of Geology and Technical sciences has been indexed in the Elsevier Scopus database since July 2016.

In this regard, since January 1, 2018, all articles for publication are accepted in state or Russian languages with the **mandatory translation of the whole article into English**. Papers without English version **will be rejected**.

Also, considering the requirements of the CSAB on the internationalization of authors and audience, the editorial board of the journals recommends publishing articles in **co-authorship with scientists from the far and near abroad**.

Scientific articles and notes, express messages on the results of research in the various fields of natural, technical and social sciences are published in the journals.

The decision to publish is taken by the editorial board of the journal after peer review considering scientific importance and relevance of the submitted materials. Articles, rejected by the editorial board, are not reaccepted or reconsidered. Manuscripts not following the rules, are returned to the authors without review.

Upon delivery of the manuscript to the editors the authors are encouraged to specify the three potential reviewers (if any, with full names and e-mail addresses) of the number of specialists in this field of research.

The manuscript is sent for review to a member of the editorial board, and one of the named reviewers; in the disputed case the editorial board attracts additional reviewers; on the basis of the expert opinion the editorial board decides the fate of the manuscript: accepted for publication in the present form, the need for revision or rejection. If necessary, the manuscript is sent to the authors for revision on the comments of reviewers and editors, after which it is reviewed again, and the editors decide on the acceptability of the manuscript for publication. The revised manuscript should be returned to the editor within one month after receipt of reviewers; otherwise the manuscript is considered as a new submission. Manuscript got not enough scores by reviewers, is rejected as not corresponding to the level or profile of the journal.

Authors are responsible for the authenticity and relevance of the scientific results and the topicality of the scientific content of the work. **PLAGIARISM is not accepted at all.**

The editors accept manuscripts in Kazakh, Russian and English, sent by e-mail in the form of attachments (Aytbaev.doc) to the edition address akadem.nauk@mail.ru. At all stages of work with the manuscripts, as well as for communication with the authors, the editorial office uses e-mail communication,

therefore, authors should **be very alert to the specified email address in the manuscript** and promptly inform about its changes.

Sending article to the editors means that the authors have not passed similar material (original or translated into or from other languages) to another journal (s) that this material has not been previously published and will not be sent to the press in another publication or not accepted for publication in another journal. If during the work on the manuscript it turns out that the same material (perhaps under a different name and with a different order of authors) has been sent to another journal, the article immediately returns to the authors, the incident reported to the journal, accepted this paper, with a recommendation to reject the article for copyright infringement of Editorial board and Publishing house.

Material of the articles - text, including summary in Kazakh, Russian and English languages, references, drawings, figure captions and tables made out a single file in the **RTF format** as there are no spaces between the words because of the different versions of MS Word; additionally each figure issued as a separate file. If the forwarded material is large in size, you should use the program for archiving. All pages of the paper, including tables, references, figures and and captions should be numbered.

Submitted for publication materials should meet the following requirements:

1. To have the results of original research on current issues in the such fields as physics, mathematics, mechanics, computer science, biology, medicine, geology, chemistry, ecology, social sciences and humanities, not previously been published and are not intended to be published in other publications. The article is accompanied by a security clearance from the institution, in which the study is carried out.

2. The volume of the article is 7-10 pages (article review - 15-20 pages), including abstract in the beginning before the main text, which should reflect the aim of the work, method, or methodology of work, results of the work, application field of the results, conclusion (abstract no less than 20 proposals (150-300 words) - (in English) through 1 computer space), tables, figures, references (through 1 computer spacing, font size - 14), printed in Word, Times New Roman, field - top and bottom - 2 cm, left - 3 cm, right - 1.5 cm. Number of figures - 5-10.

Design

- Title of the article
- Names of the authors
- Place of paper performing
- Abstract (structured)

Structure of the article

Структура статьи

I	Introduction
M	Methods
R	Results
A	(and)
D	Discussion

- Acknowledgements
- Funding!
- Список литературы

The structure must correspond to the international IMRAD formula, where I is introduction, M is Methods, R is Results, A is and, D is conclusion + discussion (conclusion, discussion of results and conclusions).

Title • displays the essence of the work • Short • No abbreviations

Clarify the spellings of surnames.

It is necessary to formalize the name of the organization in English and the abbreviation.

Abstract • Structured • No abbreviations • Transmits the structure of the article - Why (relevance) - What methods? - What is received - How it changed the picture of knowledge It is read, first of all, only a good abstract can attract attention!

Introduction • Relevance of work • What is the task • Why

Methods • Enumeration • If known - give a link • If modified - specify how • Describe so that they can repeat • Statistics!

Results • Not chronological but logical narrative is allowed • Basic, not all that has been done • Illustrated by the minimum necessary summary data (the original can be in additional materials)

Discussions • Do not repeat the results • Compare the findings with the available data • Discuss possible causes and consequences

Functions of the list of references: • Argument the idea • Compare with existing analogs • Mark the place of this research • Avoid plagiarism • For the journal and the scientist = recognition • Often only own works or very old ones are indicated (only 10-15% of the total list of references is allowed) • Migratory errors

Distinguish • References • List of References • Bibliography

What can be cited • Books (monographs, chapters) • Articles of the scientific journals • Conference proceedings • Patents • Dissertations • Unpublished data • Media • Web resources (protocols, web pages) The source should be reliable and easily accessible

Critical moments for correct auto-indexing f references list

- Format (Author is indicated only once)
- Presence of // and ibid makes it impossible for auto-indexing
- In Roman alphabet (transliteration, not translation)
- Names of publications and their abbreviations)
- accuracy of references

Homoglyphs – “a letter mix” or Cyrillic font in English words

Омоглифы ⇒ “буквенный микс”
или кириллица в текстах на английском



А О С Е Н Т Р И М В Х - буквы какого алфавита?

- NAUKOVETS
- **NAUKOVETS**– смешанные буквы
 - Cyrillic
 - Roman
- **N■U■V■S**– так это слово “увидит” робот!
- Приводит к некорректному распознаванию, и индексированию авторов, статей организаций.
- Переключать клавиатуру!!!

The article begins in English. At the beginning, at the top left the index of UDC, IRSTI, DOI should be indicated. In the middle of the page initials and names of the authors in usual bold type, of the article in capital bold letters, then on the next line - name of the organization (s) in which the work is done, next to the surname of the author the index should be indicated with the figure of the organization, the same figure should be indicated in the name of the organization, city, country, then on the new line - the authors' e-mail addresses, the next line is the title of the article in capital bold letters, the title of the article should be short and capacious, according to the analysis - about 30-40 characters in English.

On the next line from the red line - Abstract - not less than 150-300 words), on the new line - key words.

Similarly, translations are made in Russian and Kazakh languages at the end of the article.

Spacing one line and the article itself begins. Following the article is a list of references. The references are given by numbers in square brackets as they mention (at least 20).

Since 2018, for each article **DOI (Digital Object Identifier)** is required - this is the digital identifier of the document. The DOI serves as a hyperlink, which always helps you find the document you need, even if the site where it has been earlier, was later changed. Thanks to this index, the search for scientific information on the Internet has become easier and more efficient. Each issue, journal posts on its Internet resources both current and archival issues and materials. Thus, in open access, you can see the summary, which includes the title of the article, the name of the authors, abstract and keywords, the place of work, as well as the output of published articles (journal title, year of publication, volume, page). This necessary information allows you to instantly find the desired article under the normal structure of the publication resource. In another way, it looks like searching by keywords, for example, in Google or Yandex. There are a lot of unnecessary information and articles that are far from scientific periodicals. To avoid this, scientists use thematic databases. Due to the DOI, the number of citations of published works increases. DOI helps to significantly reduce the loss of links. All this together allows us to understand why the world community no longer recognizes electronic articles that do not have a DOI index. Without it, the publication does not have sufficient stability on the Internet, is subject to change, even to the point of extinction. And this, in turn, negatively affects the citation index.

Giving the links to recently published articles, self-citing are allowed in a minimum quantity. There are obligatory to indicated 1 reference to articles from the journal of NAS RK to which the paper is submitted, the DOI should be indicated.

List of references is as follows:

In references to books it is indicated ISBN (10- or 13-digit). Cut only the names of those journals which are specified:

http://images.webofknowledge.com/WOK46/help/WOS/0-9_abrvjt.html

For all references to articles published in international peer-reviewed journals there should be indicated the DOI (DigitalObjectIdentifier). DOI are specified in the PDF version of the article and / or on the main page of the article online, you can also use the search engine CrossRef: <http://www.crossref.org/guestquery/>.

Here are the examples of references:

Article in international journal:

Campry TS, Anders T. (1987) SNAP receptors implicated in vesicle targeting and fusion, Environ Pollut, 43:195-207. DOI: 10.1016/0269-7491(87)90156-4.

Article in the Russian language Journal, which has no English version:

Ivanova TV, Samoilova NF (2009) Electrochemical Energetics [Elektrohimicheskayaenergetika] 9:188-189. (In Russian).

Books:

Timrat TA (2008) Soil pollution: origins, monitoring and remediation, second edition. Springer, Germany. ISBN: 978-3-540-70777-6.

Proceedings of the conferences:

Monin S.A. (2012) Treatment techniques of oil-contaminated soil and water aquifers. Proceedings of International Conference on Water Resources and Arid Environment, Riyadh, Saudi Arabia. P.123.

Patents:

Barin AB, Mukamedzhan NT (2000) A method for determination of 1,1-dimethylhydrazine and nitrosodimethylamine [Metodopredeleniya 1, 1 - dimetilgidrazinainitrosodimetilamina]. Preliminary Patent of the Republic of Kazakhstan [Predvaritelnyi patent Respubliki Kazakhstan]. (In Russian).

Standards, GOSTS:

RMG 61-2003. Indexes of accuracy, precision, validity of the methods of quantitative chemical analysis, methods of evaluation [GSI.Pokazateli tochnosti, pravilnosti, retsizionnos time todik kolichestvennogo himicheskogo analiza. Metodyi otsenki]. Moscow, Russia, 2003. (In Russian).

The site <http://www.translit.ru/> provides an opportunity to make free use of the program transliteration of Russian text into Latin, using a variety of systems. The program is very simple, it is easy to use for ready reference. For example, selecting the system variant of the Library of Congress (LC), we get an image of letter correspondence. Put full text of bibliography in Russian in a special box and press the button "в транслит". The resulting converted text of references should be inserted under the original list, at the end of each transformed point it is necessary to specify in parentheses the original language of the source, in the English language. For example: (in Russ.), (In Kaz.). Transform the transliterated link:

- 1) remove the transliteration of the title of article;
- 2) remove the special dividers between fields ("//", "-");
- 3) select the source name in italics;
- 4) select the year in bold;
- 5) indicate the language of the article (in Russ.).

3. The articles are published in Russian, Kazakh and English languages.

4. In the case of processing of articles at the request of the Editorial Board the receipt shall be the date of getting the final edited version. If the article is rejected, the editors reserve the right not to have a discussion based on the deviation.

Authors are requested to submit all the article materials in one document (one file), and just follow the Requirements.

Полезные ссылки



webofscience.com



my.endnote.com



researcherid.com



incites.thomsonreuters.com



clarivate.ru



youtube.com/WOKtrainingsRussian

Полезные ресурсы

- <https://youtu.be/AKmpFbPF0h0>
- <http://info.clarivate.com/rcis>
- <http://webofscience.com/>
- <http://crossref.org/>
- <http://www.researcherid.com/>
- <https://orcid.org/>

Dear authors!

Currently, about 250 Kazakh universities and research organizations have access to the information resources of prestigious international companies such as Clarivate Analytics and Springer. Over the past four years the number of Kazakh subscribers complaints, according to the statistics of Web of Science Core Collection has increased in 4 times. Access to global databases of scientific knowledge has been defined by President Nursultan Nazarbayev as one of the priority development of science instruments at the First forum of scientists in December 2011.

Publications of Kazakh scientists are included in 1% of the highly cited articles in the world.

When referencing rely on more recent data, own writings indicate as less as possible, use the international sources of information.

The references are given by numbers in square brackets as they are referenced (at least 20).

Tel. 8(727)272-13-19 (18), +7-777-394-33-89

Website: <http://nauka-nanrk.kz/>

E-mail: akadem.nauk@mail.ru (for submission of articles). Acceptance to the 3rd issue until February 15, to the 4th - until April 15, No. 5 - June 15,

No. 6 - August 15), from gylym2015@mail.ru dispatch to the authors of the information on the publication of the journals, payment.

Payment is made after the approval of the article and inclusion in the journal issues, the author is sent a letter with details about payment.

According to the Resolution of the Presidium of NAS RK, No. 4, dated 15.05.2018

For publication in the journals:

1. Reports of NAS RK.
2. News of NAS RK. Series of Agrarian Sciences.
3. News of NAS RK. Series of Biology and Medicine.
4. News of NAS RK. Series of Social Sciences and Humanities – 10000 tenge.

For publication in the journals:

1. Bulletin of NAS RK.
2. News of NAS RK. Series of Chemistry and Technology.
3. News of NAS RK. Physico-mathematical series – 20000 tenge.
4. Series _____ 10 000 tenge.

For publication in the journal

News of NAS RK. Series of Geology and Technical sciences – 70000 tenge.
Articles are accepted in English in all journals.

SAMPLES of the article design

NEWS **REPORTS** **BULLETIN**
OF THENATIONAL ACADEMY OF SCIENCES OF THE REPUBLIC OF KAZAKHSTAN
SERIES _____
ISSN
Volume 0, Number 000 (2018), PP.000 –000

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PROTECTIVE EFFECT OF HYBRID ENTOROSORBENTS ON BIOCHEMICAL INDICATORS OF BLOOD OF EXPERIMENTAL ANIMALS INTOXICATION BY CHLORIDE CADMIUM

Abstract. It was shown that protein cadmium intoxication reduces glucose levels and transported in the blood plasma of 25-30% on the membranes of red blood cells by 50-60%, increases the level of cholesterol by 25% in the plasma and 2.5 times washings with erythrocytes. Application of new hybrid enterosorbents neutralize the toxic effects of cadmium and the amount of protein and glucose carried into the plasma was on average 90-93% already in erythrocytes washings with – from 75 to 80% of the targets. The most effective sorbents exerting a protective effect

in the blood system when transferring protein, glucose and cholesterol are pectin containing composites – 2% Pec/TS and 2% Pec+PEG-6000/TS.

Keywords: intoxication, cadmium, blood biochemistry, erythrocytes, plasma, adsorption, enterosorbents.

Статья на английском языке. Токсический эффект кадмия состоит в том, что он связывает все серосодержащие аминокислоты и ферменты в крови, по сути обрекая организм на голодную смерть. Происходит поражение центральной нервной системы, печени, почек, нарушается фосфорно-кальциевый обмен, из-за чего разрушаются кости, развивается анемия, поражаются цитоплазма и ядра клеток. Для анемии, вызванной интоксикацией кадмием, характерно снижение содержания гемоглобина и кислород-транспортирующей способности эритроцитов, как результата их незрелости, что приводит к гемической форме гипоксии в организме [1, 2].

ЛИТЕРАТУРА

[1] Урсова Н.И., Горелов А.В. Современный взгляд на проблему энтеросорбции. Оптимальный подход к выбору препарата // Росс. Медич. журн. – 2006. – № 19. – С. 1391-1396.

[2] Рачковская Л.Н., Бгатова Н.П., Бородин Ю.И., Коченков В.И. Протекторные свойства сорбентов, возможности применения в лимфологии // В кн.: Лимфология. – Новосибирск: Манускрипт, 2012. – С. 1063-1094.

[3].....

[4].....

[5] Ivashov V.I., Kapovsky B.R., Plyasheshnik P.I., Pchelkina V.A., Iskakova E.L., Nurmukhanbetova D.E. (2018) Mathematical simulation of one-stage grinding of products frozen in blocks. News of the National Academy of Sciences of the Republic of Kazakhstan. Series of geology and technical sciences. Volume 5, Number 431 (2018), PP.48–65. <https://doi.org/10.32014/2018.2518-170X.9> ISSN 2518-170X (Online), ISSN 2224-5278 (Print)

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REFERENCES

[1] Ursova N.I., Gorelov A.V. Sovremennyj vzgljad na problemujenterosorbicii. Optimal'nyj podhod k vyboru preparata // Ross. Medic. zhurn. 2006. N 19. P. 1391-1396.

[2] Rachkovskaja L.N., Bgatova N.P., Borodin Ju.I., Kochenkov V.I. Protektornyesvojstvasorbentov, vozmozhnostiprimenenija v limfologii // V kn.: Limfologija. Novosibirsk: Manuscript, 2012. P. 1063-1094.

[5] Ivashov V.I., Kapovsky B.R., Plyasheshnik P.I., Pchelkina V.A., Iskakova E.L., Nurmukhanbetova D.E. (2018) Mathematical simulation of one-stage grinding of products frozen in blocks. News of the National Academy of Sciences of the Republic of Kazakhstan. Series of geology and technical sciences. Volume 5, Number 431 (2018), PP.48–65. <https://doi.org/10.32014/2018.2518-170X.9> ISSN 2518-170X (Online), ISSN 2224-5278 (Print)

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КАДМИЙ ХЛОРИДІ МЕНИНТОКСИКАЦИЯЛАУКЕЗІНДЕГІ ГИБРИДТІК ЭНТЕРОСОРБЕНТТЕРДІҢ ТӘЖРИБЕЛІК ЖАНУАРЛАР ҚАНЫНЫҢ БИОХИМИЯЛЫҚ КӨРСЕТКІШТЕРІНЕ ПРОТЕКТОРЛЫҚ ӘСЕРІ

Аннотация. Кадмийлік интоксикация қан плазмасында тасымалданатын ақуызбен глюкозамөлшерін 25-30%-ға, эритроциттер мембранасында 50-60%-ға азайтатын және қан плазмасындағы холестерин деңгейін 25%-ға, эритроциттер шайындысында 2,5 есе арттыратыны көрсетілген.

Түйінсөздер: интоксикация, кадмий, қан биохимиясы, эритроциттер, плазма, адсорбция, энтеросорбенттер.

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ПРОТЕКТОРНЫЙ ЭФФЕКТ ГИБРИДНЫХ ЭНТЕРОСОРБЕНТОВ НА БИОХИМИЧЕСКИЕ ПОКАЗАТЕЛИ КРОВИ ЭКСПЕРИМЕНТАЛЬНЫХ ЖИВОТНЫХ ПРИ ИНТОКСИКАЦИИ ХЛОРИДОМ КАДМИЯ

Аннотация. Показано, что кадмиевая интоксикация снижает уровень белка и глюкозы, переносимых в плазме крови на 25-30%, на мембранах эритроцитов крови на 50-60%, повышает уровень холестерина на 25% в плазме и в 2,5 раза в смывах с эритроцитов крови. Применение новых гибридных энтеросорбентов нейтрализовало токсический эффект кадмия и количество белка и глюкозы, переносимых в плазме крови в среднем уже составляло 90-93%, в смывах с эритроцитов – от 75 до 80% от контрольных показателей. Наиболее эффективными сорбентами, оказавшими протекторное действие в системе крови при переносе белка, глюкозы и холестерина были пектин-содержащие композиты – ПК/ТС и 2% ПК+ПЭГ-6000/ТС.

Ключевые слова: [интоксикация](#), [кадмий](#), [биохимия крови](#), [эритроциты](#), [плазма](#), [адсорбция](#), [энтеросорбенты](#).

Сведения об авторах: Ф.И.О., Место работы, должность, звание, эл. почта
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