

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

LUHANSK TARAS SHEVCHENKO NATIONAL UNIVERSITY, UKRAINE  
FACULTY OF NATURAL SCIENCES

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SAINT CLOUD STATE UNIVERSITY, USA

NATIONAL BOTANICAL GARDEN (INSTITUTE) «ALEXANDER CIUBOTARU», REPUBLIC OF  
MOLDOVA

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OF OPOLE, POLAND

STATE ENTERPRISE INSTITUTE OF GRAIN CROPS OF NATIONAL ACADEMY OF AGRARIAN  
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ALL-UKRAINIAN ENVIRONMENTAL LEAGUE, UKRAINE

STATE ENVIRONMENTAL INSPECTION IN LUHANSK OBLAST, UKRAINE

UKRAINIAN AGRIBUSINESS CLUB, UKRAINE

### III INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE

#### "NATURAL SCIENCES: PROJECTS, RESEARCHES, PROSPECTS"

*to the 100th anniversary of the Faculty of Natural Sciences*



**15-16 December 2022**  
**Myrhorod, Ukraine**

<b>CONFERENCE ORGANIZERS</b>	
<b>Chair of the Conference</b>	
<b>Olena KARAMAN</b>	Doctor of Pedagogical Sciences, Professor, Rector of Luhansk Taras Shevchenko National University, Ukraine
<b>Co-chairs</b>	
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<b>CONFERENCE PROGRAMME COMMITTEE</b>	
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<b>Anatolii HATSKO</b>	Head of the State Environmental Inspection in Luhansk Oblast - Chief State Inspector for Environmental Protection of Luhansk Oblast, Ukraine
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<b>Ion ROSHKA</b>	Doctor of Biological Sciences, Director of National Botanical Garden (Institute) 'Alexander Ciubotaru', Republic of Moldova
<b>Tetiana TYMOCHKO</b>	Head of the All-Ukrainian Environmental League, Ukraine

<b>Vladyslav CHERCHEL</b>	Doctor of Agricultural Sciences, Corresponding Member of the National Academy of Sciences Director of the State Enterprise Institute of Grain Crops of National Academy of Agrarian Sciences of Ukraine, Ukraine
<b>Iryna TSYMBAL</b>	Candidate of Pedagogical Sciences, Associate Professor, Director of the Luhansk Regional Institute of Professional Development, Ukraine
<b>Anatolii TSYRKUN</b>	Director General of UCABevent and UCABtravel agencies of the Ukrainian Club of Agrarian Business, head of the 'Agrokebety' program, Ukraine
<b>Vitaliy ZELYUK</b>	Candidate of Pedagogical Sciences, Associate Professor, Director of the Poltava akademy of continuing education M. V. Ostrogradsky, Ukraine
<b>Malgorzata YAZHVA</b>	Assistant Professor, Faculty of Natural Sciences and Technologies, Institute of Biology, University of Opole, Poland
<b>ORGANIZATION COMMITTEE</b>	
<b>Iryna KYRPYCHOVA</b> (Head of the Organization Committee)	Candidate of Biological Sciences, Associate Professor of the Department of Horticulture and Ecology, Luhansk Taras Shevchenko National University, Ukraine
<b>SECRETARIAT OF ORGANIZATION COMMITTEE</b>	
<b>Kateryna BEREZENKO</b> (Head of the Secretariat)	Senior Lecturer of the Department of Horticulture and Ecology, Luhansk Taras Shevchenko National University, Ukraine

### DEAR COLLEAGUES!

You are invited to participate in the **III INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE "NATURAL SCIENCES: PROJECTS, RESEARCHES, PROSPECTS"**, which will be held on **December 15-16, 2022** at the Faculty of Natural Sciences of the Luhansk Taras Shevchenko National University, Myrhorod, Ukraine. The conference is dedicated to the 100-th anniversary of the Faculty of Natural Sciences of SE 'Luhansk Taras Shevchenko National University'.

#### AIM OF THE CONFERENCE

Discussion of topical theoretical and practical issues in the fields of Biology, Natural and Agricultural Sciences, substantiation of promising directions of research for the purpose of their further development, establishment of professional contacts, encouragement of young people to scientific research

#### TOPICS OF CONFERENCES

Biology, Natural and Agricultural Sciences, Education (Natural Sciences)

#### THEMATIC AREAS (SECTIONS) OF THE CONFERENCE\*

1. Achievements, problems and perspectives of research in the fields of Biology and Natural Sciences
2. Agricultural Sciences and Food: traditions, problems and prospects
3. Education: issues of theory and practice (Natural Sciences)

\* under the conditions of submission of reports on a common topic, subsections will be created

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#### PARTICIPANTS TO BE INVITED

scientists, post-graduate students/students of education, employees of research institutions, educational administrations/institutions, representatives of enterprises/farms according to the profile of the conference

#### WORKING LANGUAGES OF THE CONFERENCE / FORMAT OF THE CONFERENCE/ FORM OF PARTICIPATION

- ✓ conference languages: Ukrainian, English
- ✓ off/on-line
- ✓ off/on-line participation with an oral report (up to 10 minutes) and publication of theses
- off/on-line participation without a report with the publication of theses

publication of theses

### MATERIALS OF THE CONFERENCE

- ✓ conference program
- ✓ electronic collection of materials (abstracts of reports)
- ✓ printed collection of materials (abstracts of reports)
- ✓ electronic certificates of the speaker/participant

### ORGANIZATIONAL CONTRIBUTION

participation in the conference and publication of report abstracts, receipt of electronic materials

- ✓ *posting abstracts of reports in the electronic collection of conference materials.* The collection will be published in the repository of Luhansk Taras Shevchenko National University <http://dspace.luguniv.edu.ua/xmlui/>
- ✓ *distribution of electronic materials* (conference program, collection of materials (abstracts of reports), speaker/participant certificate).  
*For foreign participants, participation in the conference and receiving electronic materials of the conference is free*  
*Payment of the commission for bank transactions is not included in the amount of the organizational contribution and is carried out at the expense of the conference participant*

### IMPORTANT DATES: ACCEPTANCE OF MATERIALS, PUBLICATION, DISTRIBUTION

<b>until 1 December 2022 18<sup>00</sup></b>	<b>materials are accepted</b> electronically via e-mail <b>fpn.conf@gmail.com</b> : application form ( <a href="https://docs.google.com/forms/d/1RuE_poXqrASTf6HsY3QScUt0_eMT84ILHzdwwgdABO0/edit">https://docs.google.com/forms/d/1RuE_poXqrASTf6HsY3QScUt0_eMT84ILHzdwwgdABO0/edit</a> ), materials (theses) for publications, scan/photo of payment receipts In the subject of the e-mail, it is necessary to indicate the surname of the speaker and the number of the section to which the materials are submitted, for example: <b>Shevchenko (1)</b> The name of the file must correspond to the last name of the speaker with the following indication: for the application - Application; for article - Article; confirmation of payment org. contribution - Contribution For example: <b>Shevchenko_Article</b> (format (.rtf, .doc), <b>Shevchenko_Contribution</b> (format (.rtf, .doc, .pdf, png, jpg), <b>Shevchenko_Application</b> (format (.rtf, .doc) <b>WARNING!</b> Notification of receipt of application and materials for publication will be sent to participants by e-mail within three days. If there is no confirmation, please send the materials again and contact the organizers.
<b>until 5 December 2023</b>	<b>sending a second information letter</b> with the conference program, tips about your trip and other important information to all participants who have paid the organizational fee
<b>until 1 January 2023</b>	<b>distribution of electronic conference materials</b> (conference program, collection of materials and certificate of participant/speaker)
<b>until 10 January 2023</b>	<b>mailing of a printed collection</b> (upon prior order and payment)

**ATTENTION!** The Organization Committee reserves the right not to accept materials (theses for printing) that do not meet the specified requirements or are sent after the deadline. The authors are responsible for the content of the materials

### CONTACT PERSONS FOR PARTICIPATION IN THE CONFERENCE

<b>Kateryna Berezenko,</b> Head of the Conference Secretariat	<b>Iryna Kyrpychova,</b> Head of the Organization Committee	<b>Natalia Matsai,</b> Co-chair of the Conference
+380505270957 Viber, Telegram, WhatsApp	+380954850545 Viber, Telegram, WhatsApp	+380507671066 Viber, Telegram, WhatsApp

### AUTHOR GUIDELINES

1. The size of the conference materials, fully prepared for printing, is 1 to 4 **full** pages.
2. All papers should be developed with the help of MS Word, 12 points (\*doc, \*docx, \*rtf), Times New Roman

font, single row spacing. Page format is A4; all margins – 2.0 cm.

3. The surname and initials of the author(s) are indicated in the center of the text field (bold font, center alignment, no paragraph).

4. Across the line from the last name (font not bold, aligned in the center, without a paragraph) - academic degree, rank, position, place of work; e-mail

5. The name of theses is printed across the line in capital letters (bold font, center alignment, no paragraph)

6. ATTENTION! References to cited sources in the text are drawn up as follows:

- the last name of the author and the year of publication of the work are indicated in round brackets (for example, Shumska, 2010)

- if it is necessary to refer to several sources, they should be presented through semicolons (for example, Afanasyeva, 2016; Bogdanova, Sannikova, 2015; Moore, 2006)

- if quotations, direct references, etc. are used, the page number of the reference should be indicated (Afanasyeva, 2016, p. 46; Bruner, 2012, p. 24)

7. Graphic materials (diagrams, photos, drawings, schemes, formulas, etc.), tables and other non-textual components are placed in the text and formatted in accordance with generally accepted requirements (numbers of drawings, tables, etc., their names, decoding of numerical designations are indicated). It is advisable not to tear the tables. Graphic materials and tables are separated from the text by a free line

8. The bibliographic description and, if necessary, notes are given at the end of theses after the heading "List of used literature" (through a line after the end of the text, center alignment, without paragraph and colon, normal font) in the order of citation. Bibliographic sources are presented consecutively, without paragraph separation; the name of the author of the work (or the first word of its title) is highlighted in bold. We suggest drawing up a list of literature in accordance with **DSTU 8302:2015 (State standard)** or in the format **Vancouver Style**

**PLEASE KINDLY SEE THE EXAMPLE:**

**Shevchenko E.S.**

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**THE NANOPREPARATIONS IMPACT ON PLANT GROWTH AND DEVELOPMENT OF *ZEA MAYS*  
*SACCHARATA* IN THE INITIAL STAGES OF ONTOGENESIS**

Text.....

Text.....

Text.....

Text.....

The use of the drug on sugar corn plants led to an increase in seed germination energy by an average of 6-8% (Table 1).

Table 1

*Energy of germination of seeds of sugar corn plants*

Variants of the experiment	Germination energy, %
Control	82,50 (± 3,2)
Epin-extra	90,00 (± 2,2)
Nano-Gro	95,75 (± 2,1)

Text.....

Text.....

Text.....

Text.....

The different drugs effect on the germination energy is shown in Fig. 1.

Thus, the use of Nano preparation “Nano-Gro” improves the germination conditions, growth and development of sugar corn plants.

References

**1. Growth** regulators based on natural raw materials and their application in crop production / V.K. Yavorskaya, I.V. Dragovoz, L.O. Kryuchkova at al. Kyiv: Logos, 2006. 176 p. **2. Kots S.Y.**, Peterson N.V. Mineral elements and fertilizers in plant nutrition. Kyiv: Logos, 2009. 182 p. **3. Mamchur O.V.** Physiological bases of productivity of corn plants under the action of growth regulators Zeastimulin and Emistim C: author's ref. dis. on achiev. Science. degree of Cand. biol. Science: special. 03.00.12 "Plant Physiology". Uman, 2010. 18 p. **4. Masliiov S. V.**, Macai N. Y., Beseda O. O., Stepanov V. V. Control of Broomrape *Orobanche cumana* Wallr. *Ukrainian Journal of Ecology*. 2018. № 8 (2). P. 74-80. URL: <https://www.ujecology.com/articles/control-of-broomrape-orobanche-cumana-wallr.pdf>

