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22-24.04.2009 Białystok-Białowieża, Poland  
ICT • ECO-ENERGY • ENVIRONMENT •  
HEALTH • TRANSREGIONAL CO-OPERATION**

## **Laboratory on Biological Testing of Chemical Compound, Drugs and Bionanostructures**

*State Research and Innovation Center “Institute of  
Pharmacology and Biochemistry of the National Academy of  
Sciences of Belarus”, Grodno*



**KAPITAŁ LUDZKI**  
NARODOWA STRATEGIA SPÓJNOŚCI

**UNIA EUROPEJSKA**  
EUROPEJSKI  
FUNDUSZ SPOŁECZNY



*Projekt współfinansowany przez Unię Europejską w ramach Europejskiego Funduszu Społecznego*

*State Research and Innovation Center “Institute of Pharmacology and Biochemistry of the National Academy of Sciences of Belarus”, Grodno*



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- **Institute for Pharmacology and Biochemistry is one of research institutes of the National Academy of Sciences of Belarus.**
- **Institute for Pharmacology and Biochemistry has more than 30-years experience in experimental and clinical studies in the field of molecular mechanisms of development of diseases of liver and thyroid gland, neuroimmuneendocrine interactions, cancerogenesis, the pathological conditions related to micronutrients deficiency, stress, alcohol abuse and development of methods of their correction.**

## ***Major research vectors of Institute of Pharmacology and Biochemistry***

- *To develop a number of amino acids-containing medical drugs and other natural biologically active compounds*
- *To study in the field of molecular mechanism of development liver and thyroid gland diseases, carcinogenesis and pathological conditions related to deficiency of micronutrients, stress, alcohol abuse*
- *To develop methods of diagnostics and human diseases corrections*
- *To develop and produce test-systems for medical application*

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*Institute consists of three large parts:*



- ***Department of Bioregulators***
- ***Department of Biochemical Pharmacology***
- ***Department of Vitaminology and Nutriciology***
- ***Laboratory of Biochemical Toxicology and Narcology***
  
- ***Laboratory on Biological Testing of Chemical Compound, Drugs and Bionanostructures***

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- ***International Laboratory on Biological Testing of Chemical Compound, Drugs and Bionanostructures (Belarussian-Polish):***



- *1. Selective tests of preparations.*
- *2. Full-scale screening of preparations using cell cultures and laboratory animals.*
- *3. Tests on preparations using special model systems.*
- *4. Development of novel highly screening tests for preparations.*

- *We are offer to create of modern high-equipped Belarussian-Polish laboratory of pre-clinical testing of bioactive compounds, drugs and nanopreparations using cell cultures and lab animals.*

- *It is supposed a usage of standard methods of drug testing and development of new high-specialized tests.*



- *There are areas, personals and partly equipments.*
- *Investment and personal training are wanted.*

# *Laboratory on Biological Testing of Chemical Compound, Drugs and Bionanostructures*

- *Advantage of cooperation*



- 1. Reduction of expenditures on preclinical research drugs.
- 2. Joint standardization and registration of preparations.
- 3. Intensification of collaborative research.

# *Laboratory on Biological Testing of Chemical Compound, Drugs and Bionanostructures*



- Available facilities
  - 1. Spaces and rooms to establish laboratories.
  - 2. Partial equipment to carry out research on cell cultures.
  - 3. A vivarium to carry out research on laboratory animals.
  - 4. A bank of cell species and a collection of laboratory animals are being created.
  - 5. The laboratory staff that requires further training.



• ***Thank You!***

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