



BIOPHARMACEUTICAL  
*CLUSTER*

OF NOVOSIBIRSK REGION



An aerial night photograph of a city, likely Novosibirsk, showing a dense grid of streets illuminated by warm yellow lights. A river is visible on the left side of the image. The sky is a deep blue.

Novosibirsk region innovative territorial cluster of information and biopharmaceutical technologies is a historical and constantly developing complex of interacting enterprises and organizations holding first-hand scientific, technological, educational and entrepreneurship skills allowing new economies to develop.



The cluster is based near Novosibirsk city south east border in Novosibirsk Akademgorodok, the Science town of Koltsovo and sputnik city Berdsk.



# *REGIONAL CLUSTER SUPPORT*





**ZNATKOV**  
VLADIMIR MIKHAILOVICH



*POSITION*

First Deputy Chair of the Government of  
Novosibirsk region

*TOTAL PERIOD OF SERVICE*

34 years

*CIVIL SERVICE*

15 years



**MOLCHANOVA**  
OLGA VITALIEVNA



*POSITION*

Deputy Chair of the Government of  
Novosibirsk region, Ministry of economic  
development of Novosibirsk region

*DEGREE*

PhD in Economics

*ACADEMIC TITLE*

Associate professor

*TOTAL PERIOD OF SERVICE*

31 years

*CIVIL SERVICE*

21 years



**NELUBOV**  
SERGEY ALEXANDROVICH



*POSITION*

Ministry of education, science and  
innovation policy of Novosibirsk region

*DEGREE*

Doctor of pedagogics

*ACADEMIC TITLE*

Associate professor

*TOTAL PERIOD OF SERVICE*

28 years

*CIVIL SERVICE*

14 years

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OF NOVOSIBIRSK REGION

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# BIOPHARMACEUTICAL CLUSTER OF NOVOSIBIRSK REGION



Development of clusters in Russia is one of the economic priorities, as established in the concept of long-term socio-economic development of the Russian Federation for the period up to 2020.

The strategy for socio-economic development of Novosibirsk region for the period until 2025 establishes that the cluster policy is the most important in development of competitive advantages and regional growth points of the region.

This is why in 2013 a program supporting the development of innovation cluster of information and biopharmaceutical technologies Novosibirsk region was launched.

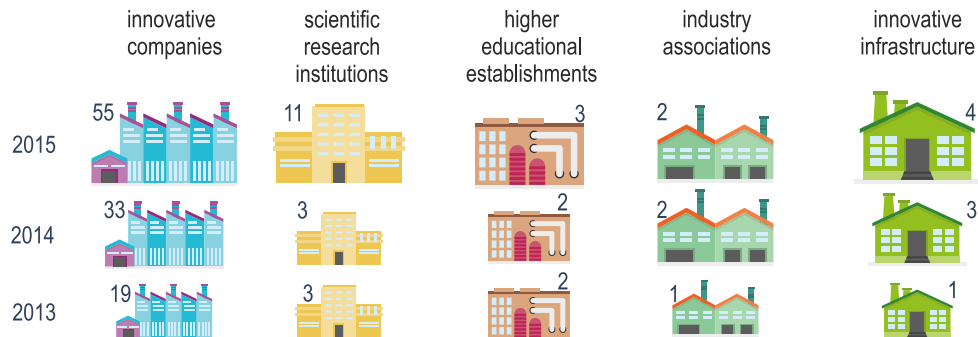
Territory of the IT segment of cluster is Akademgorodok. As for biotech, the cluster companies are located in Krasnoobsk, Novosibirsk, Koltsovo, Berdsk.

The core has historically formed around the Vector institute of virology and biotechnology and so located in Koltsovo.

The science town Koltsovo is a territory with high concentration of capabilities in biotech and sectorial innovation infrastructure. The unique feature is that Koltsovo has a full-cycle production organizations, as well as R&D and educational establishments all on one territory.

The cooperation links between Siberian institutes of Russian academy of science, Novosibirsk State University, Novosibirsk State Medical University, enterprises of Novosibirsk and Berdsk provide a synergy necessary for growth in production rate, commercialization of development, investment attraction, and as a result more taxes generated for the regional and federal budget.

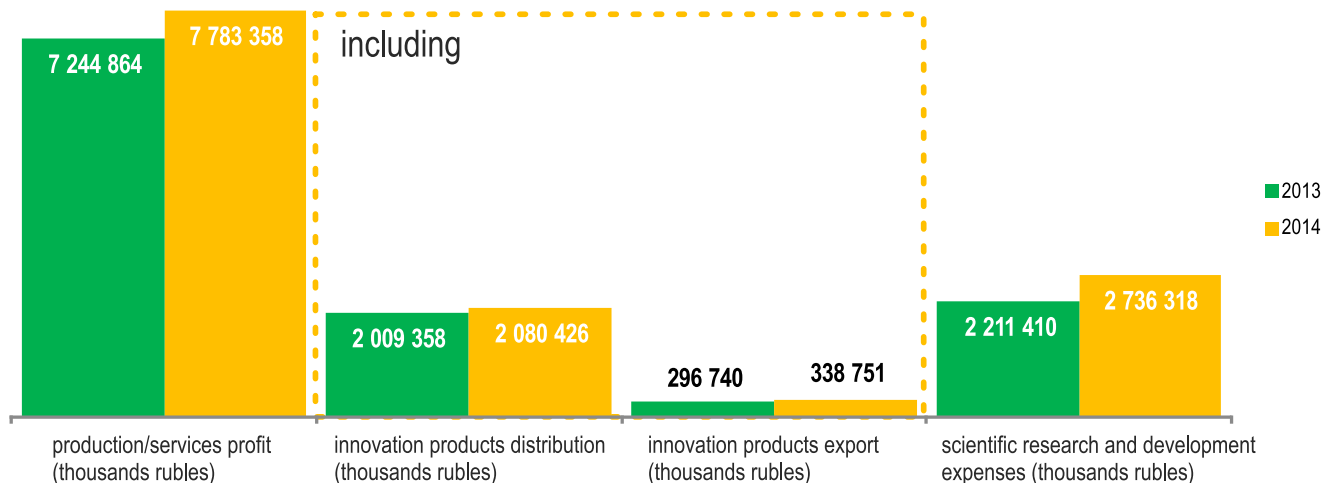
## CLUSTER STRUCTURE





Development of a regional cluster is designed to increase the effectiveness of the implementation of economic policy by increasing competitiveness of cluster members in the framework of mutually beneficial cooperation on the one hand, and the participation of the state in the implementation of measures for the development of clusters through the mechanism of public-private partnerships, on the other.

The vast majority of biopharmaceutical cluster companies are members of either one or both of business associations: non-profit partnership for the development of innovative territorial cluster of Novosibirsk region in biopharmaceutical technologies "Biopharm" (est. 2010) and non-profit partnership "Center of Biotechnology and Medicine SibBioMed" (est. 2013).



# «SIBERIAN BIOTECHNOLOGICAL INITIATIVE» INTERREGIONAL PROGRAM



Interregional program "Siberian Biotechnological Initiative" (SBI) brings together enterprises and organizations operating in the fields of biotechnology and pharmaceuticals. The initiative unites organizations from Novosibirsk, Tomsk, Kemerovo, Omsk, Irkutsk regions, Altai and Krasnoyarsk krai.

Development of the program is carried out by Siberian regions together with:

- "Russian Venture Company",
- Foundation "Center for strategic research",
- Association of innovative regions of Russia,
- "Investment agency of Novosibirsk region",
- Center for cluster development of Novosibirsk region,
- Center for cluster development of Altai krai,
- Center for cluster development of Tomsk region,
- Technopark of Novosibirsk Akademgorodok,
- Biotechnopark Koltsovo,
- Novosibirsk regional government,
- Koltsovo municipality,
- Innovation center Koltsovo,
- NP "Biofarm",
- Ministry of Economic Development (under the Program of development of pilot innovative regional clusters).

### *THE PURPOSE*

The purpose of SBI is restoration and modernization of the Russian biotechnology industry with the potential of Siberian scientific and technological, industrial and educational facilities in the sectors of:

biotechnology and agriculture

pharmaceuticals

food industry

forestry and ecology

### *THE OBJECTIVES*

The objectives of SBI is to give a new impetus to the biotechnology industry, to efficiently attract public resources, increase production volume, became more notable on the federal level.

The projects are implemented in accordance with government objectives for the development of biotechnology as one of the main areas of high-tech economy. The tasks correlate with existing state programs for biotechnology industry "Bio-2020", "Pharma 2020" and "Development of industry and increase of competitiveness".

### *WHY IN SIBERIA?*

In Soviet times the Siberian regions collected Russia's largest industrial, scientific and educational base in the field of biotechnology.

This base is not lost, and achievements of the Siberian scientists in fundamental biology, agriculture and forestry, medicine are known. The production base was well preserved. As significant examples one can name "Sibbiopharm" company in Novosibirsk, "Vector" institute and its spin-offs in Koltsovo, companies "Microgen" in Tomsk, "Altai" in Altai krai.

### *THE UNIQUENESS*

The project is unique in the simultaneous involvement of organizations of different profiles: educational institutions, Academy of sciences institutes, industrial enterprises, high-tech companies and innovation infrastructure (of science towns Koltsovo and Biysk, parks, engineering centers). The project approach is implemented by formation of investment projects aimed at industrial production, infrastructure, R & D for development of new products, as well as educational programs.

With the support of Ministry of Economic Development some of the key elements of SBI are funded through the program of regional biopharmaceutical clusters.

Projects of SBI will be presented at federal level, using the mechanisms of different federal programs and relevant ministries (Ministry of Economic Development, Industry and Trade of the Russian Federation, the Ministry of Agriculture of the Russian Federation, Ministry of Education of the Russian Federation).





# *CLUSTER STRUCTURE:*

*SPECIALIZED ORGANIZATION  
FOR CLUSTER DEVELOPMENT  
AND SECTORIAL PARTNERSHIPS  
UNITING THE CLUSTER  
MEMBERS*

*CLUSTER DEVELOPMENT SPECIALIZED ORGANIZATION -  
NOVOSIBIRSK REGION STATE AUTONOMOUS ESTABLISHMENT  
«ARIS INNOVATION PROJECTS FORMING AGENCY»*

*CLUSTER DEVELOPMENT SPECIALIZED ORGANIZATION -*

is an organization providing methodological, organizational, marketing and other support of cluster policy realization, cluster development union participants interaction coordination, cluster projects development coordination (in accordance with Novosibirsk region cluster policy concept for 2012 – 2015, and for the period till 2020, approved by Novosibirsk region government statutory instrument dated 16.04.2012 # 187-p)

Novosibirsk region state autonomous establishment “ARIS innovation projects forming agency” (NRS AE “ARIS”) was created in 2011 with the initiative of Novosibirsk region Ministry of education, science and innovation policy. The main establishment's tasks were defined as following: education programs organization in the area of innovations control, innovation development commercialization consultation support, assistance in innovation project formation for receiving state and regional co-financing and funding.

In 2013 Novosibirsk region governor's order defined NRS AE “ARIS” as Novosibirsk region innovation cluster development specialized organization in information and bio-pharmaceutical technologies..



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Contact person -  
Trubacheva Anna (Director)



## NON-PROFIT PARTNERSHIP ON THE DEVELOPMENT OF INNOVATIVE TERRITORIAL CLUSTER OF NOVOSIBIRSK REGION IN THE FIELD OF BIOPHARMACEUTICAL TECHNOLOGIES «BIOPHARM»

The goal of partnership is the improvement of interaction effectiveness between members of the Partnership, federal authorities and local government.

The partnership interacts with education and science institutions, non-profit and non-governmental organizations, private and institutional investors in order to develop the territorial cluster and Partnership members. This interaction provides creation and realization of joint cluster projects by Partnership members which are participants of cluster.

Founded in 2010.

Non-profit partnership on the development of innovative territorial cluster of Novosibirsk region in the field of biopharmaceutical technologies " BIOPHARM»

|                                                          | HIGH TECHNOLOGY BUSINESS | RESEARCH ORGANISATIONS | INNOVATION INFRASTRUCTURE  |
|----------------------------------------------------------|--------------------------|------------------------|----------------------------|
| Municipal authority<br>of the cluster location territory | LARGE – 3                | RDI SB RAS             | Biotechnopark Koltsovo     |
|                                                          | MEDIUM – 10              | NSU                    | Business incubator         |
|                                                          | SMALL - 31               | NSMU                   | Innovation center Koltsovo |

## NON-PROFIT PARTNERSHIP "SIBERIAN CENTER FOR THE DEVELOPMENT OF BIOTECHNOLOGIES AND MEDICINE «SIBBIOMED»

The partnership was established on the basis and unites the complex of research institutions of the Siberian branch of the Russian Academy of Sciences located in Novosibirsk Akademgorodok, small innovative companies in the area of biotechnologies and biomedicine, as well as representatives of large business.

Founded in 2013.



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Chief executive:  
Linyushin A.P  
[i@ick.ru](mailto:i@ick.ru)

[info@sibbiomed.ru](mailto:info@sibbiomed.ru)  
<http://sibbiomed.ru/>





# MEMBERS

*OF THE BIOPHARMACEUTICAL  
CLUSTER OF NOVOSIBIRSK REGION*



*INNOVATION  
COMPANIES*





### Abies, Innovation and production company, LLC

Development and production of functional food, cosmetic products and feed supplements based on bioactive substances of coniferous plants, sea algae and probiotics

pyhta.ru  
3541103@mail.ru  
+7 (383) 363-05-36,  
mobile +7 (913) 917-32-51  
(Mrs. Tatyana Gahokidze)



### AvaxisBiotherapeutics, LLC

Development of vaccines and medical preparations for cancer treatment

amaksyutov@yandex.ru  
mobile +7 (913) 905-98-75  
(Maksyutov Amir Zakievich)



### AGRO-VESTA, LLC

Development, production and introduction of probiotics into livestock and poultry breeding

agrv2013@mail.ru  
+7 (383) 306-64-24,  
mobile +7 (983) 314-65-65  
(Mr Oleg Kutashev)



### Angiolain, LLC

Production of medical instruments for endovascular X-ray surgery

www.angioline.ru;  
info@angioline.ru;  
+7 (383) 213-1875,  
fax 306-1794

### Beta Bio, LLC

Creation of natural raw material based product line for cytostatic chemotherapy side effects correction among oncology patients

nioch.nsc.ru  
dabashev@nioch.nsc.ru  
+7 (383) 330-96-6



### Bioavanta, LLC

Products and active substances for food, cosmetics, medicine and health industries

bioavanta@mail.ru  
mobile +7 (913) 914-01-56  
(Kargaplov Yuri Sergeevich)



### Bio-Vesta®, CJSC

Development and production of dietary supplements and biobased products on the basis of pure culture of probiotic microorganisms

www.biovesta.ru  
+7 (383) 306-44-59,  
363-18-64, 363-18-65  
om@biovesta.ru



## BIOKOR, LLC

Production of biobased products – probiotics for healthy nutrition

laktomir.ru  
+7 (383) 306-38-98  
biokor@laktomir.ru



## Biolabmix, LLC

Research product development in molecular biology, biochemistry and genetic engineering.

www.biolabmix.ru  
e.v.rihter@gmail.com  
+7 (383) 363-51-91  
+7 (383) 363-51-91



## BIOLINK, LLC

Development and production of test systems for molecular diagnostics in oncology

biolinklab.ru  
+7 (383) 334-86-14  
info@biolinklab.ru



## Biomineral, LLC, Research and production laboratory

Cosmetic and care products development based on modern research results in the area of herbal and mineral ingredients dermal exposure system influence

biomecosmetics.ru  
info@biomecosmetics.ru  
+7 (383) 214-25-23



## Biooil, JSC

Development and manufacture of bioproducts for cleansing of soil and water basins from oil and other types of pollution.

zabelin53@mail.ru  
mobile +7 (913) 946-98-77  
(Mr Vladimir Zabelin)



## Biosan, LLC

Biochemical reagent creation and distribution based on research results in the area of molecular biology, PCR detection system and immunobiology

www.biosan-nsk.ru  
richter@niboch.nsc.ru;  
e.v.rihter@gmail.com  
+7 (383) 363-51-91

## Biosinteks, LLC

Innovation company working in the area of medicine, veterinary medicine, agriculture and science production.

www.biosyntec.ru  
mlfilipenko@gmail.com  
+7 (383) 213-64-81





Biosset, LLC

Development, production and delivery of equipment for DNA and RNA fusion.

www.biosset.com  
sredin@biosset.com  
+7 (383) 335 -62-25,  
330-35-16

Biotest, LLC, Research and Manufacturing Association

Development and production of modern diagnostic immuno chromatographic express-tests

www.biotst.ru  
info@biotst.ru  
+7 (383) 332-94-33,  
363-36-18

Biotechnology Center, Ltd.

Production of nutritional supplements and products obtained by means of pyrolysis of wood, equipment for the preparation of such additives and products. Heat treatment of wood.

biotechcentr@mail.ru



VECTOR-VIRIN, LLC

Agricultural sector, biological protection of plants

kolosov@vector.nsc.ru  
+7 (383) 306-41-00,  
mobile +7 (913) 380-35-03  
(Kolosov Alexey  
Vladimirovich)

Vector-Fortis, LLC

Manufacture of pharmaceuticals

gleb-tit@yandex.ru



Vector-BiAlgam, CJSC

Production of pharmaceutical immunobiological preparations, probiotic products

www.bialgam.ru  
+7 (383) 336-51-51,  
336-75-50  
office@bialgam.ru



Vector-Vita, LLC RDC

Development and production of pharmaceutical and veterinary preparations with nanosilver.

vector-vita.com  
+7 (383) 345-30-65  
vector-vita@ngs.ru



## Vector-Invest, LLC RDC

Development and production of medicinal preparations and cosmetic products based on chitosan and snake venom.

+ 7 (383) 306-13-22  
vasilenko37@yandex.ru



## Vector-Medica, JSC

Development and production of pharmaceutical drugs

www.vector-medica.ru  
+7 (383) 363-32-96  
office@vector-medica.ru



## Vertical M, LLC

Development and production of medical devices

ptrl@mail.ru  
7 (913) 398-69-83  
(Mr Petr Larionov )



## Vitagor, LLC

Development of pharmaceutical drugs for oncological diseases treatment

vitagor@biosib.ru  
+7 (383) 381-45-13,  
м.т. +7 (913) 946-98-77  
(Zabelin Vladimir  
Arkadievich)



## GoGroup, LLC

Genetic testing

mygenetics.ru  
info@mygenetics.ru  
8 800 500 11 02



## Dia-Vesta, LLC

Production of healthy food

www.dia-vesta.ru  
dia-vesta@mail.ru  
+7 (383) 293-89-03,  
м.т. +7 (923) 233-00-05  
(Ms Svetlana Khomicheva)

## Diaprocess, LLC

Development and production of automatic enzyme multiplied immunoassay including ELISA

info@mbu.ru  
+7 (383) 363-77-10



### Diagen, LLC

Development and production of test systems for early detection of oncological diseases.

se2004@yandex.ru  
м.т. +7 (913) 985-02-77  
(Zaitsev Sergey Alekseevich)

### Green Technologies, LLC

The use of colloidal solutions of metals in feed production and manufacture of diagnostic systems

an40035@gmail.com  
+7 (952) 918-35-28



### ImDi, CJSC

Production of medical diagnostic test systems

www.imdi.ru  
imdi2010@yandex.ru  
+7 (383) 336-51-08

### Innet, LLC Financial Company

Production and delivery of farm livestock nutriment based on brewer's grains

innet2006@inbox.ru  
+7 (383) 263-38-71

### Medial Biological Union, LTD

Science driven projects development and realization in the area of biotechnology and medicine;

Production and distribution of reagents for transmissible diseases enzyme immunoassay diagnostics.

Development, production and distribution of reference-materials for quality control of diagnostic examination.

www.mbu.ru  
info@mbu.ru  
+7 (383) 332-54-78,  
332-52-75



### Medical Biological Union - Technology, LTD

Research organization offering scientific developments (cloning, expression, proteins purification, biochemical analysis), and production services (development, raw material production, process scaling, lyophilization).

mbu-tech.com  
info@mbu-tech.com  
+7 (383) 363 77 14

## Medical genetic technologies, LTD

Development of genetic risk pathology calculation methods based on results of molecular genetic analysis

www.mgtnsk.narod.ru  
mgtnsk@gmail.com  
+7 (383) 332 97-28



## Medikraft, LLC

Modern medical equipment development and production with the use of latest scientific achievements and cooperation with leading Russian Academy of Sciences, Siberian branch Research and Development Establishments

medikraft.ru  
sales@medikraft.ru  
+7 (383) 213-63-91,  
fax: +7 (383) 209-21-43



## Medin, LLC

Develops, produces, and has official distribution rights for biological adhesive "Sulfacrilat".

www.sulfakrilat.ru  
medin2004@mail.ru  
+7 (383) 330-07-31



## Mycopro, LLC

Development and production of biological preparations for plant protection and growth stimulation

mycopro.ltd@gmail.com  
mobile +7 (913) 711-57-62  
(Ms Anna Mishina)

## Neopant - Scientific Technological Production Laboratory, LLC

Pantohaematogen-based cosmetic products manufacture

www.neopant.ru  
greal@mail.ru  
+7 (383) 341-42-42

## Scientific and agrarian center "Oblepikha", LLC

Production of raw materials and ingredients for food, cosmetic and pharmaceutical industries

berries@ngs.ru  
mobile +7 (913) 725-10-48  
(Mr. Vadim Kolpakov)



## Laboratory VID, LLC

Production of cosmetics, concentrates for balneal procedures

dmarket@detsina.com  
+7 (951) 377-43-05,  
mobile +7 (913) 730-71-11  
(Markhaeva Elena  
Vladimirovna)

Russian natural products, OOO

kielcatgreen@yandex.ru

Manufacture of food products, oil extracts, teas and balsams

SIBAF, LLC

Agricultural sector, development and production of feed additives for animal

www.sibaf.ru  
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+7 (383) 363-02-67  
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SibBioGas, group of companies

Environment, processing of organic waste, renewables

pav@sibbiogas.ru  
7 (383) 209-10-67,  
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(Mr Artem Porshnev)



SibBioPharm, LLC

Industrial production with microbiological synthesis

www.sibbio.ru  
sibbio@sibbio.ru  
+7 (38341) 5-80-00,  
5-80-23

Siberian biotechnological company, OOO

Manufacture of test-systems and blood serums

ravls@yandex.ru

Siberian innovation center, LLC

Development and production of medical equipment

rubinvn@mail.ru  
+7 (383) 332-48-21,  
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(Mr. Valery Zarubin)

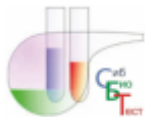


Siberian Serpentarium, Ltd.

Development and production of medicinal preparations and cosmetic products based on chitosan and snake venom.

www.sibserpent.ru  
info@sibserpent.ru  
+7 (383) 217-74-43





### Sibitech, LLC

Production of veterinary diagnostic test-systems and pharmaceutical drugs

www.sibitec-nsk.ru  
sibitec@mail.ru  
+7 (383) 336-50-91



### Sibenzyme, LLC

Production and disposal of ferments of metabolism of nucleic acids and concomitant drugs used in molecular biological researches and genetically engineered works.

+7 (383) 306-19-701  
evgeny.dubinin@sibenzyme.ru



### SFM Pharm, LLC

Production of pharmaceutical preparations

sterilize.ru  
pharm@scpb.ru  
+7 (383) 354-07-87



### Pharmogel, LLC

Creation of products based on recombinant angiogenine – blood vessel's growth factor for preventive treatment, skin and mucosal treatment during vascularization imbalance

purtov.alexey@gmail.com  
mobile +7 (913) 945-95-42  
(Purtov Alexey Anatolyevitch)



### The center of vortex technologies, LLC

Development and production of gas-vortex bioreactors for various industrial and medicine sectors.

vortexreactor.com  
lapshine@gmail.com  
+7 (383) 306-15-96



### New Medical Technologies Center, Independent Noncommercial Organization

Network of multi-field and specialized medical clinics

www.cnmt.ru  
info@cnmt.ru  
+7 (383) 363-01-83

### Ecological security, LLC Research and Manufacturing Association

Development and production of biological products for land, water zones from pollutants

zabelin53@mail.ru  
mobile +7 (913) 946-98-77  
(Zabelin Vladimir Arkadyevitch)



ECO-TECH, LLC

j.khripko@gmail.com

Manufacture of cosmetic products for intensive rejuvenation based on hyaluronic acid

Epitech, LTD

e.a.ryzhikov@gmail.com;  
+7 (913) 924-99-81

Innovation projects in biotechnology and pharmacology



*EDUCATIONAL  
ESTABLISHMENTS  
AND SCIENTIFIC  
RESEARCH  
INSTITUTIONS*



# EDUCATIONAL ESTABLISHMENTS



FEDERAL STATE AUTONOMOUS HIGHER EDUCATION INSTITUTION

«NOVOSIBIRSK STATE NATIONAL RESEARCH UNIVERSITY»

University's general scientific research field is participation in solving tasks of fundamental science and critical technologies developed by SB RAS (the Siberian Branch of Russian Academy of Sciences) and Russian Ministry of Education. The main goal of the University is specialists' preparation for science.

The most important goals in this field are:

- to create environment for consistency and interaction of educational processes in scientific research for training highly professional scientific specialists
- to support growth of scientific schools based on the university platform and in SB RAS Novosibirsk science center institutions
- to provide Novosibirsk State University scientific and technical potential wider usage and development
- to provide students, Master's degree students and postgraduate students' participation in scientific research at all stages.



[www.nsu.ru](http://www.nsu.ru)  
[nauka@nsu.ru](mailto:nauka@nsu.ru)

+7 (383) 330-22-42

## «NOVOSIBIRSK STATE MEDICAL UNIVERSITY»

The main activities of the University are:

- highly qualified specialists preparation in educational programs of secondary, higher, postgraduate and vocational professional education
- medical, biological and pharmaceutical science development by means of scientific research, usage of obtained results in educational process and practical public health service.

Novosibirsk State Medical University scientific research is held in 6 fields (medical, biological, pharmaceutical, sociological, economical, philosophical).



[www.ngmu.ru](http://www.ngmu.ru)  
[rector@ngmu.ru](mailto:rector@ngmu.ru)

+7 (383) 222-32-04

NOVOSIBIRSK REGION STATE FUNDED PROFESSIONAL EDUCATIONAL ESTABLISHMENT

## «NOVOSIBIRSK CHEMICAL TECHNOLOGICAL COLLEGE NAMED AFTER MENDELEEV D. I.»

College main activity fields::

- main educational programs for general secondary education in chemistry and chemical technologies
- experimental and research activity in the area of technical regulation, standardization, product and services certification, ecological certification;



Государственное бюджетное профессиональное  
образовательное учреждение Новосибирской области  
Новосибирский химико-технологический  
колледж им. Д.И. Менделеева

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# SCIENTIFIC RESEARCH INSTITUTIONS



FEDERAL STATE FUNDED SCIENTIFIC INSTITUTION

«VECTOR» STATE VIROLOGY AND BIOTECHNOLOGY SCIENTIFIC CENTER»

Federal state funded scientific institution “Vector” state virology and biotechnology scientific center” is one of the largest scientific centers in Russia in the area of virology and biotechnology. Its fundamental scientific research activities are targeted towards obtaining new scientific knowledge in virology, biotechnology, molecular biology, epidemiology, ecology, bacteriology and bio security. Applied researched are aimed to develop effective methods of diagnostics, prevention and treatment of virulent diseases, to create and to improve its production biotechnologies.

Federal state funded scientific institution “Vector” state virology and biotechnology scientific center” possesses a unique scientific experimental base, which has no equivalents in the system of Russian and FSU countries civil institutions, and allows the most up-to-date research with the most hazardous viruses for humans (viruses which are not under preventive and treatment measures at present) at absolute safety conditions for personnel and the environment.



[www.vector.nsc.ru](http://www.vector.nsc.ru)  
[vector@vector.nsc.ru](mailto:vector@vector.nsc.ru)

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336-60-10

## CHEMICAL BIOLOGY AND FUNDAMENTAL MEDICINE INSTITUTE SB RAS

www.niboch.nsc.ru  
niboch@niboch.nsc.ru

Institute's main activities:

- genomics, proteomics, structure and functions of biomolecules and premolecular complexes, gene targeting
- bioengineering, biopolymer synthesis and synthetic biology
- biotechnologies: gene therapy, regenerative medicine cell technologies, nanobiotechnology
- clinical and translational medicine, genetic basis of personalized medicine, physiology, molecular bases of immune system and oncogenes
- organism's and society ecology, extremophile association, virus and bacterial agents in mammal's organism;

+7 (383) 363-51-50

Institute has study and science centers, providing effective usage of scientific potential and possesses special academic equipment for students, postgraduates, and highly qualified scientific specialists training. A particular attention is paid to preparation of young scientific specialists. It provides education and internship for NSU students; post gradual studies are also available.

## INSTITUTE OF SOLID STATE CHEMISTRY AND MECHANOCHEMISTRY SB RAS

www.solid.nsc.ru  
root@solid.nsc.ru

Institute main research fields and activity:

- solid's reactivity, including molecular crystals and supramolecular systems
- solid-phase transformation, including under high pressures and temperatures, burning and bursting
- organic and nonorganic substance, mineral and renewable material' mechanochemistry
- chemical materials science. Modification and design of new structures and materials, biologically active substances and products. Nanoobjects and nanocompositions' chemistry
- development of research methods for high-speed processes with synchronous radiation usage.

+7 (383) 332-40-02

## Main scientific activities:

- study of organic compounds reaction mechanisms, molecular regrouping, compounds and active intermediate particles structure and properties including quant chemical structure and properties calculation methods
- synthesis methods of aromatic, fluoroorganic, heterocyclic and heteroatomic compounds (containing nitrogen, sulfur, etc) including stable residuals, polymers and monomers
- development of analytical and instrumental methods of organic compounds structure definition, environment objects control
- synthesis, properties and formation study of organic, hybrid and polymer materials. Scientific base technology development for important substances and specimen production
- definition methods and technologies, chemical nature, reactivity and biological activity of hybrid and polymer materials. Targeted synthetic transformations, active natural and synthetic agents pharmacological properties and mechanism.

+7 (383)330-88-50

Institute also develops important practical applications and technologies in the frames of the mentioned fields, and provides highly qualified training for specialists.

## Institute priority field directions:

- Research in the area of molecular genetic mechanisms of immune system cell's activation process regulation, proliferation and differentiation within norms and under immunopathological condition, immunocorrection new methods development based on cell biotechnologies and genetic engineering products
- Stem cell and progenitor regulation mechanism research and development of highly effective biotechnological methods for main disease cure
- Investigation of molecular – genetic mechanisms forming immune system polymorphism as foundation for health evaluation, development and treatment of immune pathologies methods development.

+7 (383) 222-26-74,

«MOLECULAR BIOLOGY AND BIOPHYSICS SCIENTIFIC RESEARCH INSTITUTE»

imbb.soramn.ru  
office@niimbb.ru

Institute's main scientific activities are:

- study of molecular biology and metabolism system gene expressions in xenobiotics, and tumor suppression genes
- study of molecular genetic formation bases in socially meaningful multifactor medical conditions
- personalized medicine technologies development in prevention, diagnostics and treatment of socially meaningful medical conditions based on individual system diversity responsible for medical reaction and sensitivity towards xenobiotics damaging action
- study of neural plasticity cellular and molecular genetic bases and function regulation adaptive methods
- optimal functioning technology development in bio control paradigm (normal, pathological and in extreme situations).

+7 (383)333-58-89

«A. L. TSIVYAN NOVOSIBIRSK TRAUMATOLOGY AND ORTHOPEDICS SCIENTIFIC RESEARCH INSTITUTE»

www.niito.ru  
niito@niito.ru

+7 (383) 224-54-74

Institute has longstanding successful experience in the area of diagnostics and treatment of musculoskeletal system disorders, central and peripheral nervous system. Institute clinical departments provide full spectrum of modern medical services and treatment methods based on the latest scientific developments in the area of traumatology, orthopedics, and neurosurgery, starting from pathology diagnostics to a full medical rehabilitation course. At present the Institute is also the largest scientific establishment and methodical center in Russia in the area of traumatology and orthopedics. It is also a large study center leading a licensed educational activity and offering educational postgraduate professional training programs in traumatology and orthopedic, neurosurgery, anesthesiology and intensive care medicine.

«NOVOSIBIRSK BLOOD CIRCULATION PATHOLOGY SCIENTIFIC RESEARCH INSTITUTE  
NAMED AFTER MESHALKIN E.N.»

+7 (383) 347 60 58

One of the largest multi-field scientific, clinic and educational and specialized medical assistance establishment of Ministry of Health of the Russian Federation. Besides cardiovascular surgery the Institute develops oncology, neurosurgery, pedonology, cyesiology and gynecology, and transplantology. Center's developments – new diagnostic and treatment methods creation are successfully implemented in many local and international clinics. The Institute also provides training of health care highly qualifies specialists as an educational center..

FEDERAL STATE FUNDED ESTABLISHMENT

centercem.ru  
sck@centercem.ru

«EXPERIMENTAL AND CLINICAL MEDICINE SCIENTIFIC RESEARCH CENTER»

+7 (383) 333-64-56

Experimental and clinical medicine scientific research center's main research area is the study of molecular, cellular, system and intersystem compensation and adjustment processes in pathological conditions, including Siberia and far North ecological conditions, development of new methods and technologies for diagnostic, prevention and treatment of infectious and noninfectious diseases. Educational activity of research center also provides professional postgraduate training.

FEDERAL STATE FUNDED ESTABLISHMENT

physiol.ru  
iph@physiol.ru

«SCIENTIFIC RESEARCH INSTITUTE OF PHYSIOLOGY & BASIC MEDICINE»

Institute's main research area:

+7 (383) 335-98-55

- study of molecular genetics, endophenotype, neurophysiological, neurochemical and neuroimmune bases of brain's integrative functions, development of personalized preventive, diagnostic and treatment measures
- study of organism's functional state dynamics under sub-extreme and extreme factors in normal and pathological, personalized development of preventive technologies and correction of disorientation.

«FEDERAL RESEARCH CENTER, CYTOLOGY AND GENETICS INSTITUTE SB RAS»

"Federal research center, cytology and genetics Institute SB RAS" is a multi-disciplinary, multi-field biology institute leading research in key areas of hereditary background phenomena (at genes, genomes, cells, organisms and population levels).

Cytology and genetics Institute SB RAS is rightfully considered as one of the leading biological institutes in Russia.

Institute's main research areas:

- molecular and general genetics of humans, animals and plants
- cellular biology and its theoretical base
- basic medical and biological research
- plant breeding—locating, mobilizing and preserving Siberian genetic plant resources, creation of agricultural species' new breeds, cultivar growth methods development, optimization of seed and nursery breeding methods.

Cytology and genetics Institute SB RAS offers postgraduate studies, and possesses a union for thesis defense. The institute serves as a scientific research base for several Novosibirsk State University departments (cytology and genetics, physiology, molecular biology, informative biology) and Novosibirsk State Agricultural University.



[www.bionet.nsc.ru](http://www.bionet.nsc.ru)  
[icg-adm@bionet.nsc.ru](mailto:icg-adm@bionet.nsc.ru)

+7(383) 363-49-80







# *INNOVATIVE INFRASTRUCTURE*

*OF BIOPHARMACEUTICAL CLUSTER  
OF NOVOSIBIRSK REGION*



NOVOSIBIRSK AKADEMGORODOK  
TECHNOPARK



# NOVOSIBIRSK AKADEMGORODOK TECHNOPARK



Join Stock Company "Novosibirsk Akademgorodok Technopark" (Academpark),  
academpark.com | info@academpark.com  
+7 (383) 344-93-13

Academpark is a complex technological park with unique scientific, technological and business structure allowing for creating of the best conditions for generation and development of innovation companies and successful development of high tech enterprises, a place where scientific developments are implemented into industrial technologies.

At present Academpark has 340 companies-residents, 118 of which are located on the territory of incubator with an area of 87 000 square meters. Annual revenues of residing companies is equal to 17,4 billion rubles, the total number of employees is 8 850.

## ACADEMPARK BIOTECHNOLOGY AND BIOMEDICINE CLUSTER

Academpark biotechnology cluster foundation is anchor local companies, which operate in the following directions:

- Industrial biotechnology (development and production of biological products for agriculture, health care, ecology)
- Development and production of health problems diagnostic tools, diagnostic sets biological components
- Bioinformatic technologies, targeted to develop new medical products
- Medical and biotechnological equipment
- Medical surgery tools.

Academpark biotechnology cluster possesses all the necessary infrastructural, communicative and informative recourses for project realization, starting from the early stages (ideas) to production organization and introducing the products to the market.

## ACADEMPARK INCUBATOR

Academpark technological incubator offers support to innovation projects at "the valley of death" stage when the idea and the core team are already formed and the project requires assistance in attracting intellectual, financial and technical resources necessary for business

development.

Fully functioning biotechnological business incubator with a total area of 1 200 square meters has been created in Academpark for placement of new companies with activity in biotechnology and biomedicine. Premises are equipped with chemical and biological laboratories, technological zone for practicing the production of pharmaceuticals, office buildings for starting companies.

## ACADEMPARK INNOVATIVE SCHOOLS

Academpark innovative summer and winter schools are the most effective acceleration programs for Russian starting entrepreneurs. The core study field for biological and pharmaceutical cluster is "Biotechnologies and medicine".  
school.academpark.com

Address:  
630090, Novosibirsk, Inzhenernaya st., 20





BIOTECHNOPARK KOLTSOVO



Management company «Science and Technology Park in The Field of Biotechnologies»,  
1, Technoparkovaya street, Koltsovo, Novosibirsk region, Russia, 630559  
Contact person – Mr. Vladimir Kozhevnikov  
director general of "Management company "Biotechnopark"  
[www.btp-nso.ru](http://www.btp-nso.ru) | [info@btp-nso.ru](mailto:info@btp-nso.ru)

Biotechnopark is a complex of business units and business processes, which together provide the conditions for commercialization of innovative solutions and expansion of resident companies' businesses.

Biotechnopark Koltsovo is a basic object of support infrastructure for territorial biopharmaceutical cluster.

The work of Biotechnopark is based on the principles of public-private partnership with attraction of investments and organizational resources of Novosibirsk region, Koltsovo municipality and private companies.

Biotechnopark is a system integrator of the services of innovative infrastructure located in Koltsovo. It provides the package of the following specialized services to resident companies:

- quick (not more than one month) long-term leasing of land with utility lines;
- free connection to the networks of electricity, gas, water and sewage;
- services of the Center for collective usage;
- access to international research and scientific network, contacts of researchers and developers of Institutes of the Siberian branch of the Russian academy of sciences, Novosibirsk State University, the State Research Center of Virology and Biotechnology "Vector" and use of their scientific potential;
- consulting services of Innovative center Koltsovo;
- services of EEN-Russia, regional partner in Novosibirsk region;
- services of business incubator;
- a complex of state support measures for resident companies, according to the regional program of Novosibirsk region



## THE CENTER FOR COLLECTIVE USAGE OF BIOTECHNOPARK KOLTSOVO



Contact person – Mr. Vladimir Kozhevnikov,  
Director general of “Management company Biotechnopark”, JSC  
[www.btp-nso.ru](http://www.btp-nso.ru) | [info@btp-nso.ru](mailto:info@btp-nso.ru)

The center for collective usage of Biotechnopark Koltsovo (CCU) provides to the members of the regional biopharma cluster and Biotechnopark residents, a complex of services that optimize technological processes. They include certification tests of products, introduction of new technologies into manufacture and research into commercialization practice, promotion of high-tech products to the market. Specialized consulting services are rendered in collaboration with Innovation center Koltsovo.

The components of CCU include:

- Siberian center for certification and declaring of drugs, dietary supplements, creams, ointments, medical devices;
- testing laboratory for drugs, dietary supplements, creams, ointments, medical devices to be tried for compliance with standards;

- certificated scaling-up of the technologies and producing of pilot batches of drugs, dietary supplements, creams, ointments, medical devices;
- Master's program in Biotechnology implemented by Novosibirsk State University.

For biotech start-ups CCU provides:

- Research, experimental and industrial equipment;
- Clean rooms certificated under international standards.

CCU provides organizational and technological pipeline for bringing developments from the stage of research and development to commercial prototypes and preproduction stages.

In 2016-2017 new areas for the purposes of CCU will be allocated. Those new specialized areas will be launched with the use of the existing innovation infrastructure in Koltsovo:

- an area for medium scale production of injection form of pharmaceutical drugs (operator – Vector-Bialgam, JSC);
- an area for cultivation of producer strains for microbial cultures (operator – Institute of virology and biotechnology Vector).

### ALLOCATION OF CCU SPACE IN ACCORDANCE WITH THEIR FUNCTIONAL PURPOSE (M2)

| Space                                                     | Occupied area | Share |
|-----------------------------------------------------------|---------------|-------|
| Laboratory and research, experiment and industrial space  | 4 562,5       | 68,7% |
| Offices for residents and innovation infrastructure       | 1 170,3       | 17,6% |
| Auxiliary and other spaces (including exhibition grounds) | 793,6         | 12,0% |
| Conference hall and classrooms                            | 113,6         | 1,7%  |
|                                                           | 6 640         | 100%  |



*THE MASTER IN BIOTECHNOLOGY,  
THE PROGRAM OF NOVOSIBIRSK STATE UNIVERSITY (NSU)  
IN THE CENTER FOR COLLECTIVE USAGE IN BIOTECHNOPARK KOLTSOVO*



1, Technoparkovaya St., Koltsovo, Novosibirsk region, Russia, 630559  
Contact person – Mr. Sergey Netesov  
svn15@hotmail.com

The program of Master in Biotechnology was initiated by Novosibirsk State University. It is aimed at solving the issue of staff shortage in territorial biopharmaceutical cluster.

New educational courses, lectures and seminars in the fields of biotechnology are being developed. The purchases and installation of equipment for lectures, seminars and lab practices are initiated.

In 2015 the first admission of students for the faculty of natural sciences of NSU is completed. It is scheduled to attract 5 to 10 Master students in the first stage, with subsequent increase up to 20-30 students annually.

Staff potential for the participants of biopharmaceutical cluster will be created by involvement in educational processes of potential employers: enterprises and organizations of research and manufacturing complex of science town Koltsovo, key specialists of biopharmaceutical cluster and anchor resident companies of Biotechnopark and Academpark

*MASTER'S DEGREE PROGRAM  
"BIOTECHNOLOGY",  
MAJOR IN "BIOLOGY"*

Qualification: Master in Biology, specialized in the field of biotechnologies.

Upon completion of the Master's program the graduates will pursue professional activity in biotech. They will meet the requirements of employers from a real sector of economy, public sector management, science and education.

*MASTER'S DEGREE PROGRAM "  
BIOTECHNOLOGY",  
MAJOR IN "CHEMISTRY"*

Qualification: Master in Chemistry, specialized in the field of biotechnologies.



IVD Engineering Center is a part of Novosibirsk region innovation infrastructure targeted to offer consulting and technological support for small and middle size enterprises solving the tasks of production technology development, creation and preproduction tests, organization, modernization or diversification of diagnostic items production process and its promotion on market.

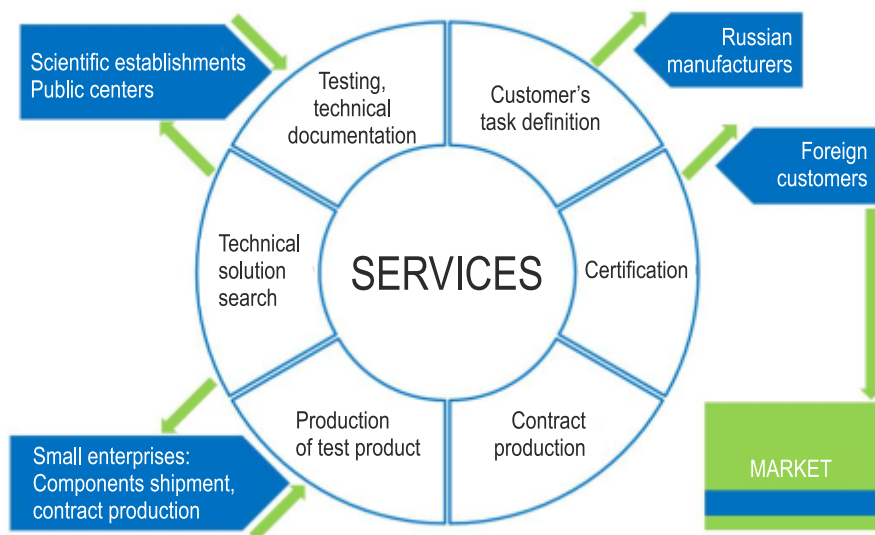
IVD Engineering Center specialization: diagnostic agents, components, instruments for clinical and laboratory diagnostics, agriculture, biosecurity.

IVD Engineering Center also provides services to small and middle size enterprises, which are not related to its main specialization.

IVD Engineering Center aspects of work:

- Pre-investment preparation and project evaluation;
- Project technical support;

- Enterprise and products preparation for certification process;
- Product promotion measures;
- Educational events organization.



IVD Engineering Center is located on Inzhenernaya st., 18,  
Technopark territory, in Akademgorodok, Novosibirsk.



PROMBIOTECH pilot center is a private Russian biotechnological company offering innovative services in complex engineering of science-driven tasks in the area of industrial technologies.

PROMBIOTECH pilot center possesses a specter of modern high-tech equipment and highly qualified specialist allowing to provide complicated research and to solve industrial matters from laboratory technologies to organizing manufacturing process.

#### OUR PARTNERS



"SibBioPharm"  
Production Association



Novosibirsk Akademgorodok  
Technopark



Russian Science Academy, Siberian  
branch



"Medical and biological Union"  
companies group

Advantages of cooperation with  
PROMBIOTECH Pilot Center:

- Ability to solve difficult science-driven matters which require a combination of unique competence, high qualification and high-tech equipment;
- Flexible operation system, individual approach in every task solving process;

- Responsibility for each project realization step;
- Minimization of client's expenses in product production;
- Product line increase without significant financial investment;
- Innovation technologies and approach implementation in a production process.

#### SERVICES PROVIDED

Production technologies development and  
scaling of biotechnological products including  
bulk production

Creation of strain-producers, catalyzing and  
microbiological samples

Contact creation of biological liquids and  
microbiological fusion products

Regulations and normative documents  
development for products

#### TASKS SOLUTION

Engineering  
Transfer  
Production

Research  
Development  
Creation

Prototyping  
Fermentation  
Operation

Filtration  
Drying  
Packaging

Address: 630090, Novosibirsk, Inzhenerenayast., 16

PROMBIOTECH  
PILOT CENTER



LCC «PROMBIOTECH Pilot Center»  
pbteh.ru | info@pbteh.ru  
tel. +7 (383) 363-77-10



Novosibirsk region, Koltsovo, 1 Technoparkovaya St.  
Tel./fax: (+7 383) 233 37 03, 306-19-17  
Contact person: Mr. Andrey Linyshin, PhD in Politics  
WEB: [www.ick.ru](http://www.ick.ru) [www.rttm-sib.ru](http://www.rttm-sib.ru) [www.rirc.nsk.ru](http://www.rirc.nsk.ru)  
E-mail: [info@ick.ru](mailto:info@ick.ru)

ANO "Innovation Center Koltsovo" is a basic element of innovation infrastructure in the Science town of Koltsovo and biopharmcluster of Novosibirsk region.

#### SPHERES OF ACTIVITY



In the sphere of partner search, transfer and commercialization of technologies, ICK provides complex services to innovation and scientific organizations in finding partners for such types of cooperation as license agreements, joint venture, R&D, and participation in international science calls of the EU and FASIE (Horizon2020, Era.Net and others).

For partners search ICK uses a number of infrastructure projects of interregional and international levels.

Since 2015, ICK is a part of a regional consortium of organizations, together forming a regional contact point of EEN-Russia. Other members include Novosibirsk Chamber of Commerce and Industry (leader of consortium) and the Fund "Technopark of Akademgorodok".

The consortium provides consulting support and services of partners search (trade intermediaries, distributors, partners for joint venture or outsourcing, license agreements, joint research, etc.) in 60 countries, as well as provides consultancy services on technology transfer, IPR protection, international science calls participation, etc.





As a complex consulting for innovation companies and projects, the services of ICK are aimed at assistance in finding stage-by-stage solutions for the strategic tasks of an innovation company. The services are provided in complex, including:

- innovation audit of projects and optimization of business-processes;
- business-planning and investment attraction;
- strategy of intellectual rights protection;
- business-planning for investment projects and investment attraction;
- analysis of market potential of the projects and development of market strategy;
- elaboration of strategic documents

ICK has numerous partners among innovation infrastructure organizations; it ensures the best quality of the provided services. ICK is a:

- partner of the Novosibirsk regional fund of science and innovation support;
- partner of the annual Siberian Venture Fair;
- partner of Seed Fund of the Russian Venture Company;
- partner of "Entrepreneurship Support Fund of Novosibirsk Region".

ICK has a number of international partners for high-quality services in technology transfer, including the Shanghai International Technology Transfer Center Co-Way, IPI Singapore, National Technology Transfer Center of the Republic of Belarus, Kuopio

Innovations, University of Eastern Finland and others.

In marketing of territory ICK implements complex marketing of science-driven developments and enterprises of the Science town Koltsovo, underpins elaboration and implementation of municipal and regional programs and projects aimed at business support, ensures development of innovation infrastructure (biotechnopark and biopharmacluster).

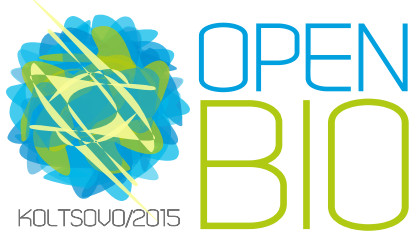
Management system introduced in Innovation Center Koltsovo guarantees that all services rendered are certified for compliance with international quality standard ISO 9001: 2008.





# MAIN EVENTS

*OF THE BIOPHARMACEUTICAL CLUSTER  
OF NOVOSIBIRSK REGION*



# OPEN COMMUNICATION PLATFORM

# OPENBIO



Open communication platform OpenBio is an annual biotech event and a basic event of Novosibirsk regional biocluster.

OpenBio is annually held in the Science town Koltsovo. In 2014 it was assigned with the status of EU-Russia year of science event.

OpenBio is aimed at assisting technology commercialization, stimulation of business development in life science, skills and opportunities formation for cooperation projects, and increasing effectiveness of innovation business, science, infrastructure and authorities interaction.

## THE EVENT HAS SEVERAL DIRECTIONS

- Discussion platform for infrastructure for innovative business support;
- Science and business infrastructure interaction, development of commercialization capabilities and cluster projects;
- Practical discussion around investment in life science;
- Scientific conference for young scientists in molecular biology, biotechnology, and virology;
- Biopharm and biotech companies exposition;
- Complex activities for popularization of innovations and biotech.

## OPENBIO PLATFORM MAIN PRINCIPLE

OpenBio platform main principle is an open dialog for science, business, infrastructure and authorities combined development and interaction.

Multi-field communication platform unites science specialists in the area of biotechnology, molecular biology, virology, biopharm and biotech companies, innovation infrastructure and development institutes (Skolkovo, Strategic innovations agency, and others) representatives, and administration representatives. In 2014 about 400 participants from Russia and other countries attended the event, in 2015—500 visitors.





# CONSULTATION SEMINAR ON MEDICAL PRODUCTS REGISTRATION ISSUES



IVD Engineering center in cooperation with Akadempark and Federal Service on Surveillance in Health Care and Social Development of the Russian Federation Expert organization traditionally holds consultation seminars dedicated to current issues of medical products registration.

The Expert organization and the partner in conducting seminars is Federal Government Budgetary Institution of Health Care and Social Development of the Russian Federation "Monitoring clinical and economical inspection center"

The discussion subjects are key issues in the area of requirements and recommendations for medical products registration documents preparation, normative and legal regulation in the area of medical products registration, latest legislation amendments referring to medical products registration. The experts willingly discuss specific issues of organizations producing medical products.

## MONITORING CLINICAL AND ECONOMICAL INSPECTION CENTER



Federal Government Budgetary Institution of Health Care and Social Development of the Russian Federation "Monitoring clinical and economical inspection center" leads consultation activity in the area of obtaining/ reissuing license in following spheres:

- Healthcare and medical activity
- Medical products usage and its medical application on the territory of Russian Federation.
- Medical products distribution, the issues of narcotic substances distribution, psychotropic substances and its precursors distribution, psychedelic plants cultivation
- Production and/or technical maintenance of medical devices except the situations when such maintenance is done due to private needs of organization of individual entrepreneur.