



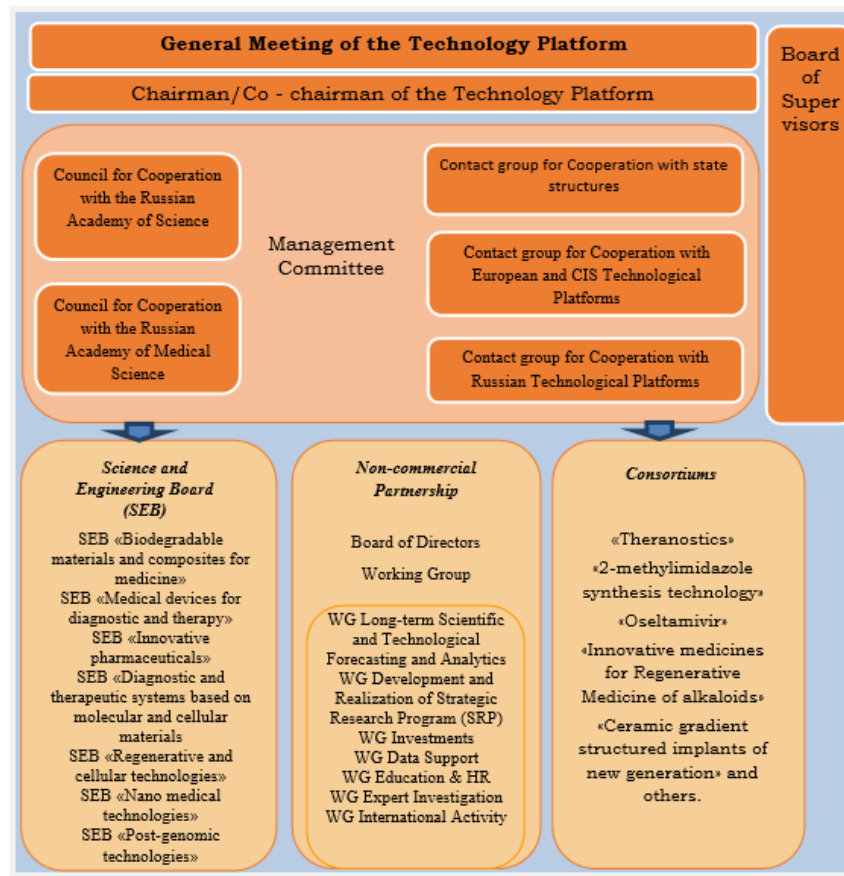
TECHNOLOGY PLATFORM «MEDICINE OF THE FUTURE»

The role of the technology platform «Medicine of the Future» in biomedical innovations development

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21 May 2014, Moscow

Organizational Structure

The strategic target of the Technology platform "Medicine of the Future" -is the creation of a segment of medicine of the future, based on a set of "breakthrough" technologies, determining the possibility of the appearance of new high-tech products and services markets, and the extensive use of advanced technologies in the medical and pharmaceutical industries.



Participants of the Platform

Participants of the Platform – more than 350 organizations, among them:

- higher professional educational institutions,
- manufacturing plants,
- academic institutions including institutions of Russian Academy of Medical Sciences.



Key Areas of Activity

Predictive and analytical activities including foresight, strategic planning of biomedical and pharmaceutical research development, creation and realization of road map, priority identification with the help of new Internet-based tools, expertise of different level projects, consulting government organizations according to the platform profile.

Educational work, up-grading of curriculums and educational programs focused on the needs of business and science, staff training and personnel recruitment.

Informational activity, information distribution in this field, information support, communication with Russian and European Technology Platforms. Organizing conferences, meetings, seminars and other performances.

Organizational and financial activity, involvement of private and corporate capital to the programs and projects realization, foundation of funds for project development and its constant functioning.



Basic competences of the Technology Platform

- Biocatalytic, biosynthetic and biosensor technologies
- Biomedical and veterinary technologies
- Genomic, post-genomic and proteomic technologies
- Cell technologies
- Nano-, bio-, information and cognitive technologies
- Bioengineering technologies
- Technology for production and processing of structural nanomaterial
- Technology for production and processing of functional nanomaterial
- Technology and software of distributed and high performance computing
- Technology to reduce losses from socially significant diseases
- Technology of creating electronic allocated baseline and energy-efficient lighting devices



Strategic research program

SRP is a fundamental mechanism for the implementation of medium- and long-term priorities of biomedicine based on cross-industry technology development, coordination of participants in the development and implementation of complex programs of a full cycle.

Full cycle complex programs

The results of the project activities of TP "Medicine of the Future" – is implementation of 164 projects at various levels, with funding or 6742 mln. rub. (including extra-budgetary 3011 million rubles) in the Platform competence areas



Full cycle complex programs

funding

**Federal Program, Pharma 2020,
RFBR, Skolkovo, Rusnano, RusTechnologies**

realization

Full Cycle Project

Research

Development

**Production & market
promotion**

monitoring

**Science Advisory
Groups
SEB**

**Centers for
Prognosis**

Clusters

support

**Science and
Education
Ministry**

**Health Care
Ministry**

**Trade and Industry
Ministry**

Forecast branch centers network of Technology platform 'Medicine of the Future'



*Molecular diagnostics
(Kaliningrad)*



*Devices for
medicine
(Saratov)*



ПушГЕНИ

*Biopharmacy
(Pushchino)*



Tomsk

НАЦИОНАЛЬНЫЙ
ИССЛЕДОВАТЕЛЬСКИЙ
Томский
государственный
университет

*Medicine
materials*

Veterinary

*Genomic
technologies*

*Pharmaceutical
drugs*

*Regenerative
medicine*



Moscow

Consortiums

Open 8 pilot productions (2011-2014гг.)

Consortium «2-methylimidazole synthesis technology»	Production on the basis LLC "Novohim", 2013г.
Consortium «Tremanti»	Production on the basis LLC "Medical-biological Union", 2013г.
Consortium «Theranostics»	The production start is planned for 2017.
Consortium «The development of technology and organization of production of biodegradable polymers, medical materials and products based on them»	Production on the basis LLC "Bioplast", 2013г.
Consortium «The development of technology and the organization of new generation production of multi- functional bioactive wound dressings and health aids»	Production on the basis Aqvelite Company LLC, 2011г.
Consortium «Oseltamivir»	Production on the basis of JSC "MoskChemPharmDrugs", 2014г.

Cooperation with Innovative territorial clusters

Up to 90% of pharmaceutical and biomedical products of Russia are concentrated in the perimeter of the 10 largest pharmaceutical and medical territorial clusters



Pharmaceuticals, medical equipment and information technology of Tomsk oblast



Priority technological platforms

- 60 - 70% of competences;
- Scientific and technological forecast;
 - Development priorities;
- Creating a technological advance in the horizon, medium-, long-term perspective;
 - Planning for Business

Information and communication engineer
New materials and designs
Medical and biotechnology
Avia & Space technologies
Industrial technologies
Energetics





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