

International Cooperation in the Thematic Area «**B**iotechnology»

**BILAT RUS Advanced Innovation Policy and Practice Workshop
Integrating Russian Innovation Actors into European Networks: Facilitating Cooperation
between Russian and European Technology Platforms**

Dr. Irina Sharova

International Cooperation Working Group
Russian Technology Platform «BioTech2030»

A.N. Bach Institute of Biochemistry, RAS, Moscow,
Russia



Moscow, May 20 2014

Background

2003 - 2011

National Contact Point of Russia “Biotechnology”

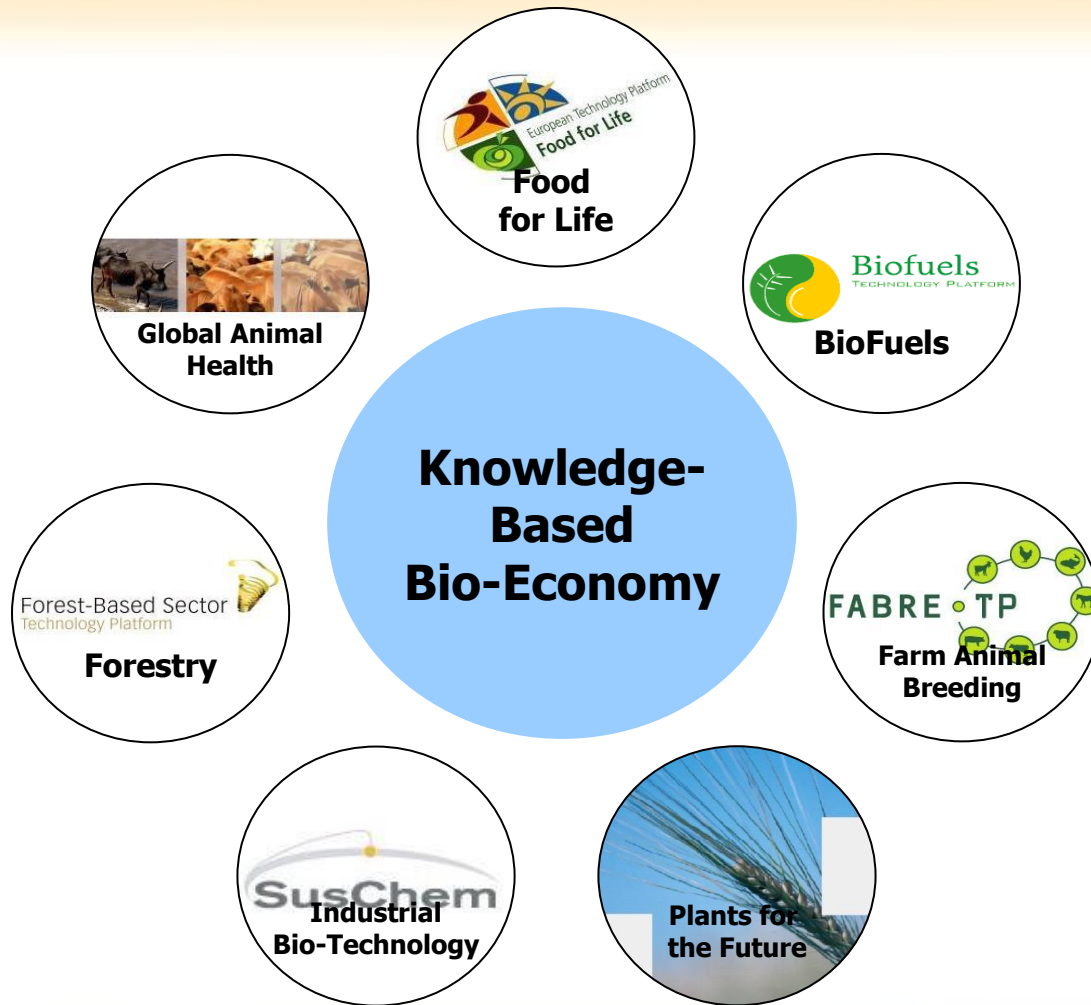


Bio-NCP of Russia was established by the Ministry of Science and Education of the RF on the basis of A.N. Bach Institute of Biochemistry of Russian Academy of Sciences in May 2003

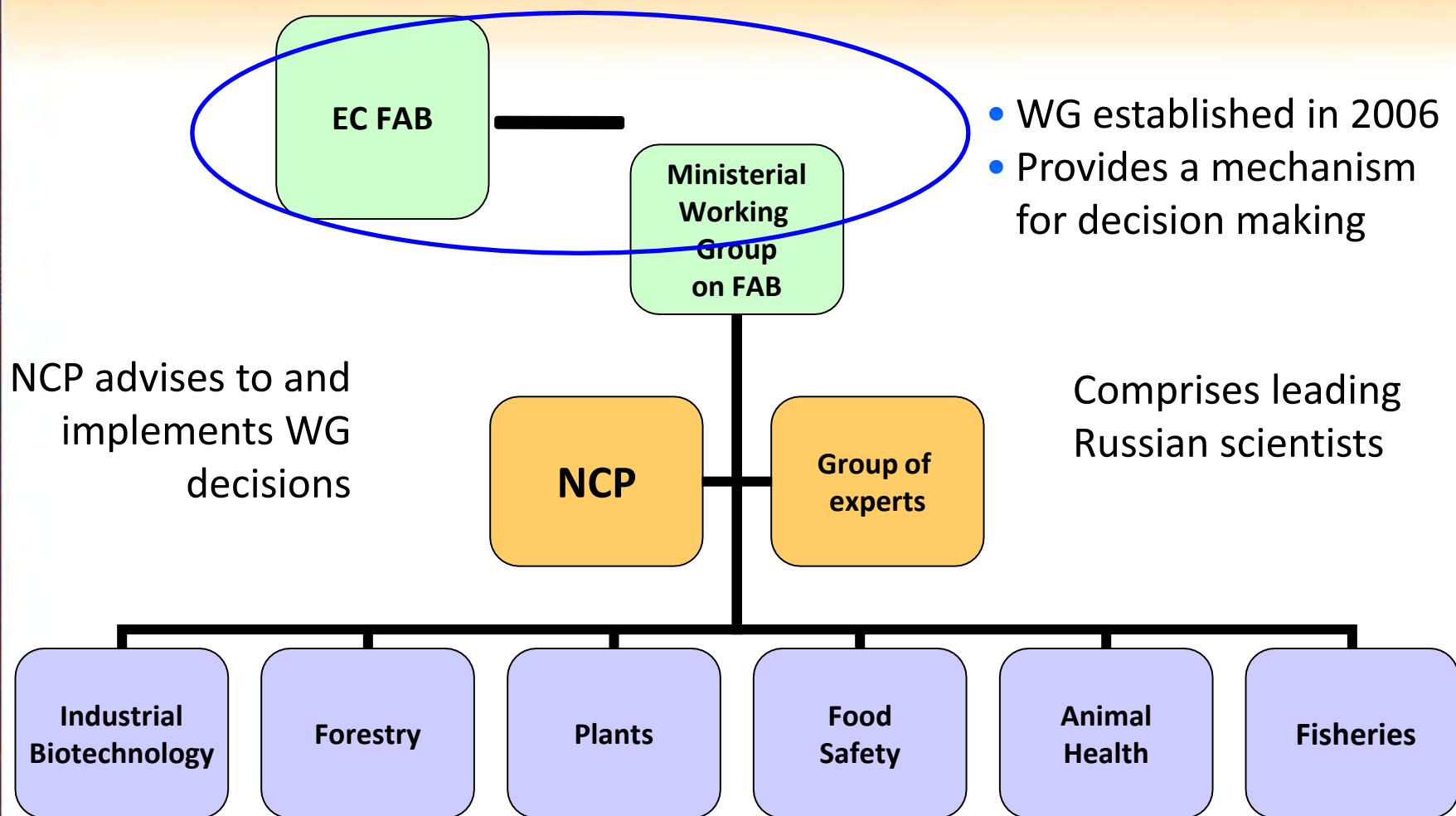
The main objective of Bio-NCP of Russia is promotion of Russian science integration into the European Scientific Area by participation in the FP 6, 7 in the field of Biotechnology and Food

- Exchange of information between representatives of science, business, ministries of Russia and the EU for development of S&T cooperation.
- Database, NEWS letters, Information materials
- Website in English and in the Russian - <http://www.fp7-bio.ru>
- Providing with information on international programmes of S&T cooperation and promote Russian integration to the European Research Area.
- Coordination and harmonization of the priorities of the RF and the EU in field of biotechnology.
- Regional Infrastructure formation.
- Acting as the International Working Group of Russian Technology Platform “Bio-industry and Bio-resources - BioTech2030”
- Thematic events organization
- Implementing FP projects, guidelines on proposal writing;
- Assistance in partner search for joint participation in research projects;

Knowledge-Based Bioeconomy, KBBE



Structure of Russian R&D Community



Activities



EU-Russia Symposia & Partnering Events:

/ Moscow -2004, 2005 / St.Petersburg -2006 / Suzdal -2007 /
/ Pushchino -2008 / Moscow -2010, 2012 /

- EU Technology Platforms in the field of Biotechnology
 «Mirror» Russian Technology Platforms and Regional Info Centers
- EU-Ru Working Group on AgroBioFood (MES-EC)
- Joint **priority** and **Co-ordinated Calls**



EU-Russia Co-ordinated and co-funded projects



Seventh Research Framework Programme (FP7) Important Legal Notice

CORDIS

Europe > CORDIS > FP7 > Find a Call > FP7-KBBE-2008-2B

Cooperation : Call for Proposals

Food, Agriculture and Fisheries, and Biotechnology

Electronic Proposal Submission Service (EPSS) | Information Package
Additional Documents | Get Support | Build Your Consortium

General call 3

Identifier: FP7-KBBE-2008-2B

Publication date: 30 November 2007

Budget: € 96 850 000

Deadline: 26 February 2008 at 17:00:00 (Brussels local time)

DJ Reference: [QJ C288 of 30 November 2007](#)

Specific Programme: [Cooperation]

Theme: [Food, Agriculture and Fisheries, and Biotechnology]

Restrictions to Participation: see eligibility criteria in the Work Programme

главная | история | контакты | карта сайта | форум | поиск

МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ РОССИЙСКОЙ ФЕДЕРАЦИИ
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО НАУКЕ И ИННОВАЦИЯМ

Приоритетные направления развития науки, техники и технологий

Живые системы

© / Главная страница / Федеральные целевые программы / ЦП "Исследования и разработки..." / Конкурсы / Мероприятие 1.2 "Проведение... / 2007 год

Мероприятие 1.2 - VII очередь: **открыто** (10.09.07)

Мероприятие 1.2 - VI очередь: **открыто** (10.09.07)

Мероприятие 1.2 - V очередь

Мероприятие 1.2 - IV очередь

Мероприятие 1.2 - III очередь

Мероприятие 1.2 - II очередь

Мероприятие 1.2 - I очередь



Food, **A**griculture and **F**isheries, and **B**iotechnology
Knowledge - Based Bio - Economy (KBBE)

Federal Targeted Programme
“Research and Development
in priority areas of science and
technology of Russia
for 2007-2012”

33 Russian partners in 19 KBBE projects in 2007-2013



ACTIVITY 2.2 FOOD

Food,

BASEFOOD
Sustainable exploitation of b
Area traditional foods

BASEFOOD aims to promote sustainable development and exploitation of traditional foods containing emerging bioactive compounds, with putative health effects in the Black Sea Region (BSR).

The Consortium includes 13 partners covering the BSR, Euro II partners with experience in traditional foods and bioactive compounds, at the pan-European level, and one representing 11 European Food and Drink Federations.

The objectives of BASEFOOD are:

1. To investigate the knowledge base of traditional foods of the BSR in order to identify those foods to be collected and analysed.
2. To define, characterise and collect nutrient and bioactive data for a...

PROJECT COORDINATOR

- Luigi Filipe Di Antonio
- UNIVERSITA DI BOLOGNA (IT)
- www.unibo.it
- antonio@agrin.unibo.it

PROJECT NUMBER 227118

EC CONTRIBUTION

- 2,500,123 EURO

FUNDING SCHEME

- CP-SCA



ACTIVITY 2.1 SUSTAINABLE PRODUCTION

Food,

MYCORED
Novel integrated s
the food and feed

MYCORED aims at developing alternative solutions to reduce contamination of mycotoxins of major concern in agriculturally important food and feed chains.

The following teams and commodity groups are involved in the project:

- **AFRICANA**, **TRICHOTHICES**, **AVAILANT** **FUNGUS** in what maize food and chains are affected. A. In grape wine, wheat, cheese and aflatoxins in diet chain.

Novel methodologies, efficient harvest procedures and information, storage and educational strategies are considered in a context of multidisciplinary integration of knowledge and

PROJECT COORDINATOR

- Antonio Ferraro Loggia
- CONSIGLIO NAZIONALE DELLE RICERCHE (IT)
- www.cnr.it
- antonio.ferraro@ipcc.cnr.it

PROJECT NUMBER 226990

EC CONTRIBUTION

- 5,750,000 EURO

FUNDING SCHEME

- CP-SCA



ACTIVITY 2.1 SUSTAINABLE PRODUCTION

Agriculture and Fisheries,

NTB-IMPACT
Assessment of the impacts of non-tariff barriers
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5. Policy recommendations from case studies on the impacts of EU private and public standards in LDCs.
6. Dissemination of project results to key stakeholders. This will be achieved:
 - By optimizing complementarities of the project with ongoing NTB research on the TRANS data base at UNCTAD.
 - By organizing the research work in research, database, management and dissemination work packages.

PROJECT COORDINATOR

- Guy Henry
- CENTRE DE COOPERATION INTERNATIONALE EN RECHERCHE AGRICOLAQUE ET POULE DEVELOPPEMENT (FR)
- ghenry@ccm.univ-guyane.fr

PROJECT NUMBER 227292

UNDER NEGOTIATION

EC CONTRIBUTION

- 3,380,918,000 EURO

FUNDING SCHEME

- CP-PP



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PROJECT COORDINATOR

- Chien POCATELERA
- AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA
- pocatelera@epa.it

PROJECT NUMBER 227204

EC CONTRIBUTION

- 1,412,000 EURO

FUNDING SCHEME

- CP-SCA



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Ru-EU TPs Meeting



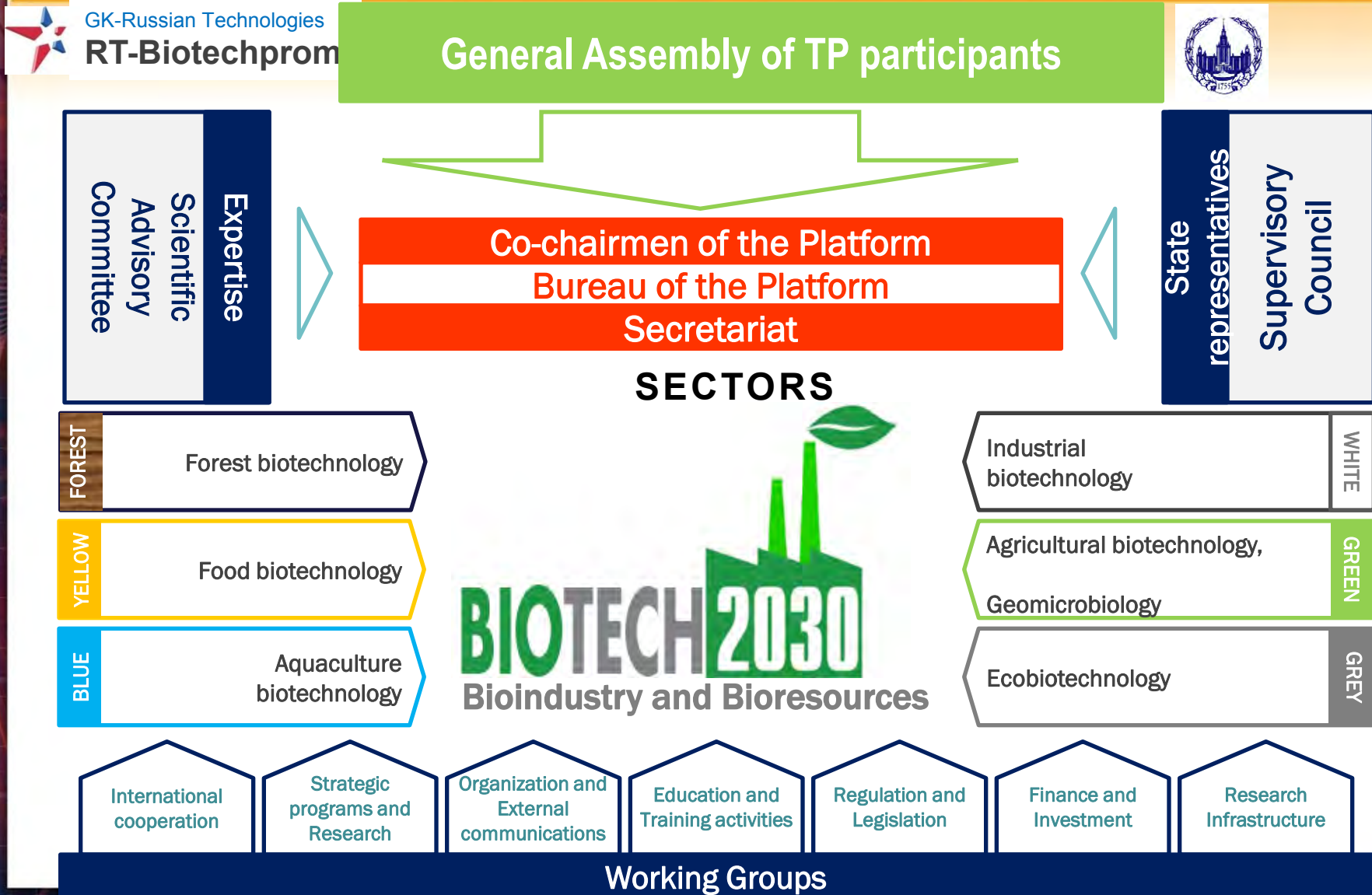
- Extensive direct contacts
 - Food – 4 meetings a year
 - Forestry – 3 meetings
 - Industrial Biotech – 3 meetings
 - Plants – 3 meetings
 - Fisheries – 2 meetings
- Strategic Research Agendas,
- ETP «Food for Life»: Vision of for 2020 and beyond

Russian Technology Platform “BioTech 2030”

2011-2014

Russian Technology Platform

“BioTech 2030”



Program «BIO 2020»



Summary

STATE COORDINATION PROGRAM
for the Development of Biotechnology
in the Russian Federation until 2020
"BIO 2020"



Co-ordinated Program of Biotechnology Development in the Russian Federation to 2020 (BIO-2020)

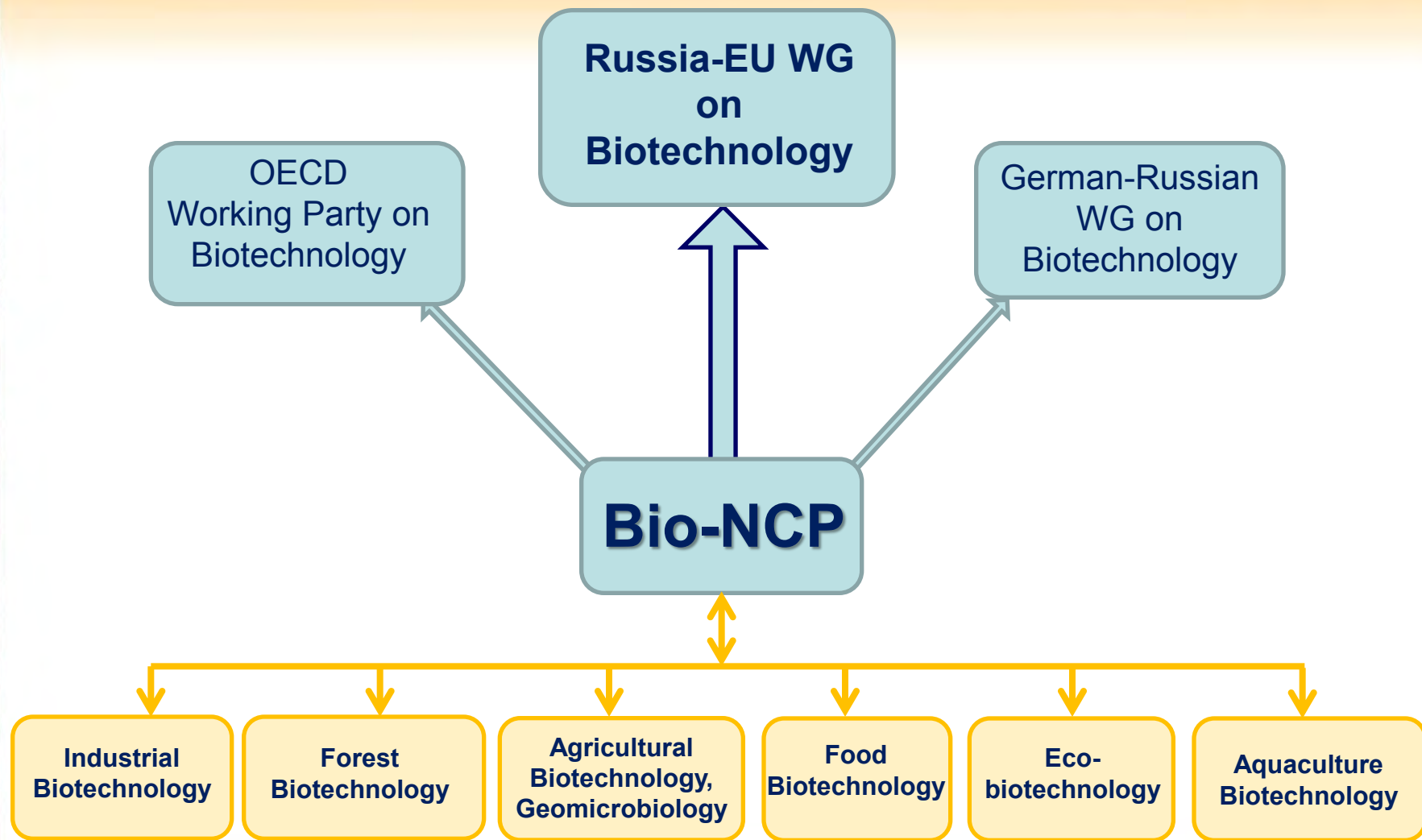
signed on 24.04.12

УТВЕРЖДАЮ
Председатель Правительства
Российской Федерации



" 24 " апреля 2012 г.
№ 1853п-П8

Advising and implementing decisions



International Cooperation

- **Ministry of Economic Development of the Russian Federation**

Development of bilateral economic cooperation:

- Department of Europe,
- Department of Innovative Development
(Business Missions, Joint Commission, Innovation WG)

- **International Cooperation Working Group**

- **International Advisory Board:**

- Advising on S&T, Investments and Markets
- International networking
- Increasing visibility
- Providing independent view

Bilateral activity

German-Russian Co-operation Network Biotechnology



- Development of an effective and sustainable **transfer system for co-operation** between small and medium sized German and Russian scientific institutions and enterprises
- Combination of **information** and **consultation** by professional partners
- Development of **qualification modules** for subjects as:
 - Project co-operation
 - Country-specific frameworks
 - Foundation of German-Russian Start-ups



German cluster of industrial biotechnology

CLIB2021

CLIB 2021 has over **70 members** from academia, SME and chemical industry amongst them Altana, Bayer Material Science, Bayer Technology Services, Cognis, Evonik Industries, Henkel and LanXess.

Technology Platforms:

- Polyomics
- Expression
- Biocatalysis
- Downstream

4 Russian members became a significant element of CLIB's international network

The goal is to increase the cluster's visibility in Russia and to simplify making contacts as well as managing joint research & development (R&D) projects.



CLIB
2 0 2 1
CLUSTER
INDUSTRIELLE
BIOTECHNOLOGIE

Dr. Manfred Kircher



CLIB2021 representation in Russia

The A.N.Bach Institute of Biochemistry became a member of CLIB²⁰²¹ and CLIB²⁰²¹ representative in Russia (2010)

CLIB
2 0 2 1
CLUSTER
INDUSTRIELLE
BIOTECHNOLOGIE



CLIB 2021 and TP «BioTech2030»



TP «BioTech2030»



INBI RAS



CLIB 2021
Moscow Office



Cluster "Industrial Biotechnology2021"





Joint Calls - 2014

«Strengthening STI links between Russia and the European Research Area»

www.eranet-rus.eu

- ☐ ERA NET specifically designed for fostering multilateral S&T cooperation between EU countries and Russia
- ☐ Calls: ONE, 1 step procedure
- ☐ Requirement: 3 participants: 2 MS/AC + Russia

„Common pot“- 24 mln EUR



- ERA-IB 2 (Towards an ERA in Industrial Biotechnology) – <http://www.era-ib.net>



- EuroTransBio – <http://www.eurotransbio.eu>.



- ERA-SME - <http://www.era-sme.net/>



- ERA NET Rus - www.eranet-rus.eu



- M-ERA - www.m-era.net



Federal Targeted Program

«R&D for priority areas of the development of S&T complex of Russia» for the 2014—2020

The Ministry of Education and Science of the Russian Federation

Activity Streams

Section 2

International cooperation

Activity 2.1

Research in the framework of international multilateral and bilateral cooperation

Activity 2.2

Support of R&D in the framework of cooperation with the **EU countries**

Activity 2.3

Participation in large-scale international scientific and scientific-technological events

Bioeconomy international 2014

Germany / Russia, Topics of the Call

- Development of new and improved biocatalysts (enzymes, cells) and microbial strains for innovative and more efficient bioprocesses by e.g. metabolic engineering, synthetic and systems biology approaches, directed evolution technologies and/or exploiting natural biodiversity
- Innovative fermentation and integrated biocatalytic processes including bioprocess engineering for platform chemicals, biomonomers, biopolymers and second generation and advanced biofuels
- Biotechnological processing (including strain development, separation and conversion) of different carbon sources like biomass, syngas and various side streams into value added products
- Sustainable and integrated utilization of biomass in bio-refinery concepts
- Development of novel, unique-performance biobased products
- Waste (agricultural, industrial, municipal) valorization via biotechnology means
- Foresighting in industrial biotechnology–bioeconomy area

Deadline : March 27th, 2014

- ❑ https://www.bioeconomy-international.de/lw_resource/datapool/items/item_23/topics_gerrus2014_module2_final.pdf
- ❑ http://2014.fcpir.ru/participation_in_program/contests/list_of_contests/

Possible ways of cooperation



- Within the upcoming Framework Programme “Horizon 2020”, (EU-Russia Joint S&T Committee and Thematic Working Groups)



- Support of Russian participation in thematic ERA-Nets: ERA-IB, EuroTransBio



- Bilateral programmes



- Regional dialogue

- Cooperation between individual Universities, research centers, companies



- Cooperation on the level of National Technology Platforms and Clusters



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