



**RUSSIAN NATIONAL
CONTACT POINT ON FP7
BIOTECHNOLOGY,
AGRICULTURE & FOOD**

**RUSSIAN
FP7 TECHNOLOGY PLATFORM
“INDUSTRIAL BIOTECHNOLOGY”**



MEMORANDUM OF UNDERSTANDING

12 November 2009

Memorandum of Understanding

This memo describes the intent of Cluster Industrielle Biotechnologie 2021 and Technology Platform “Industrial Biotechnology” to work together in the field of research & development and further implementation of novel high-tech biotechnology projects, including the technologies in the area of bioconversion of biomass and lignocelluloses, renewable raw materials into sugars, basic chemicals, and second generation biofuels.

Article 1. Introduction

Recognizing the key elements of the German and Russian government’s development strategy, including the Concept of innovation clusters and development of the Technology Platforms the Russian FP7 Technology Platform “Industrial Biotechnology”, Russia, (hereinafter referred to as “the TP “Industrial Biotechnology””) and the Cluster Industrielle Biotechnologie 2021, Germany, (hereinafter referred to as “the CLIB2021”), have decided to explore the possibilities of cooperation as Partners in order to accelerate commercialization of hi-tech achievements and to facilitate the internationalization of their scientific and technological results.

CLIB2021 is a research and industrial cluster organization that aims at turning research & development for innovative processes and products into commercial success.

TP “Industrial Biotechnology” works on implementation of a number of high-tech biotechnology projects, including the technologies in the area of bioconversion of biomass, lignocelluloses and renewable raw materials into sugars and further to the second generation of biofuels.

Article 2. Subject of cooperation

TP “Industrial Biotechnology” and the CLIB2021 agreed to work together to promote cooperation and information exchange, to provide project management and investor relations support in the field of research & development and further implementation of novel high-tech biotechnology projects, including the technologies in the area of

bioconversion of biomass and lignocelluloses, renewable raw materials into sugars, basic chemicals, and second generation biofuels.

Priority areas for research cooperation were tentively identified as:

- a) Lignocellulose biorefinery including enzyme system optimization and metabolic engineering of microorganisms for biofuels (butanol) production;
- b) Anaerobic processes to access building blocks for chemical industry including metabolic engineering of microorganisms.

Article 3. Approach to cooperation

To ensure further development and commercialization of strategic and/or high impact projects, the Parties will work together to identify and support the development of the best innovative projects in the field of biotechnology, to attract investors, including biotechnology companies and state investors and promote competitive next generation biotechnological products to Russian and German markets. This cooperation will also contribute to building enablers for scientific community development, including sharing of knowledge and best practices, organizing seminars and scientific conferences, attracting and developing of young talents, development of joint educational programs in the field of industrial biotechnology and wide communication of scientific results.

Article 4. Information exchange

The Parties agree to be open and exchange extended information about their organizations, participants and their cooperation networks within the interests of the joint projects. They also agree to act professionally vis-à-vis received information and to preserve confidentiality of the other party.

Article 5. Costs responsibilities

The two Parties will be responsible for their own costs for establishing and conducting the cooperation, including their own expenses for visits, business trips, participation in meetings, etc

Article 6. Working group

Parties agreed to create a working group, which will lead and coordinate joint activities and interactions between the CLIB2021 and TP “Industrial Biotechnology”. The working group will be responsible for screening and identification of the attractive projects, facilitating the information and knowledge exchange platform between Russian and German scientific and industrial organizations, for attracting the necessary expertise for project evaluation and promotion and supporting project initiators in finding the necessary financial resources. Working group will consist of representatives from both parties.

This Memorandum of Understanding (M.O.U.) is written in English. Each Party shall keep the original copy.

Article 7. Duration and Termination

- (a) The term of this M.O.U. shall commence on the Effective Date set forth below and shall continue for a period of 3 years.
- (b) Either Party may terminate this M.O.U. by written notification not less than two (2) months in advance of its desire to do so. Unless otherwise agreed, the termination of this M.O.U. shall not affect the implementation of projects or programmes established under it prior to such termination. This M.O.U. may be extended by mutual agreement of the Parties in writing.

Article 8. Confidentiality

The exchange of the confidential data between specific partners needs the separate Confidentiality agreement between them.

Article 9. Non-Binding Nature of the M.O.U.

The Parties acknowledge that the provisions of this M.O.U. represent their common intentions to explore business linkages between the CLIB2021, its participants, and the TP "Industrial Biotechnology", its participants. Except for Article 7, this M.O.U is not intended to create a legally binding contractual relationship between the Parties.

Article 10. Non-Exclusive

The parties may work on, participate for any projects with other potential joint venture partners. However such participation shall not be detrimental to the spirit of this M.O.U.

Article 11. Effective Date

The Effective Date of this M.O.U shall be the **12th of November 2009**

For and on behalf of

The Russian FP7 Technology Platform
"Industrial Biotechnology", Russia



Signed by : **Prof. Vladimir POPOV**,
Director of A.N. Bach Institute of Biochemistry,
RAS, Head of the Russian National Contact Point
on FP7-TP2 Food, Agriculture and Biotechnology

12.11.2009

For and on behalf of

The Cluster Industrielle Biotechnologie
2021, CLIB2021, Germany



Signed by: **Dr. Manfred KIRCHER**,
Chairman of the Board

12.11.2009