

In November 2002 the I. M. Sechenov Moscow Medical Academy together with ten Russian leading biotech and biomedical organizations initiated the foundation of a Non Commercial Partnership – Center of Modern Medical Technology «TEMPO». **The Partnership has brought together intellectual, material and organizational resources, targeted at improving health state of the Russian nation through the consolidation and optimization of efforts made by scientists, engineers, manufacturers, experts in public health organization, and practicing physicians in the design and introduction of innovative technologies in the area of public health.**

5 Years of Non Commercial Partnership – Center of Modern Medical Technology «TEMPO» is an evidence of organization's maturity. During 5 years the potential of our Partnership has grown and nowadays «TEMPO» is an evolving and growing partnership, bringing together 17 governmental, educational, and private entities. The teams working in «TEMPO» organizations are able to tackle current scientific and industrial tasks at the cutting-edge level.

We are proud that a Non Commercial Partnership – Center of Modern Medical Technology «TEMPO» is assisting its members at presenting the Partnership's activities both in Russian and international community. The implementation of unique educational programs in the field of GXP, developed in accordance with the international standards, enabled not only improve the competencies of more than 350 specialists of Partnership, but also to involve governmental authorities in Russia. «TEMPO» Commercialization Center began its activity under the support of the European Community and aims to expertise research projects and assists «TEMPO»'s members in searching the potential investors in Russia and abroad.

A new and complicated Partnership's activity is the international cooperation in the area of biosafety and biosecurity. To implement this activity the International Advisory Group (IAG) on Biosafety and Biosecurity was created together by joint efforts of Global Partnership Program, Ministry of Foreign Affairs and International Trade Canada and International Council for the Life Sciences. The IAG is a standing group of international and Russian experts interested in enhancing biosafety and biosecurity and presenting 10 countries.

We are open for cooperation and confident that, relying on help and support of its member-organizations and partners, Non Commercial Partnership «Center of Modern Medical Technology «TEMPO» will achieve new successes in fulfilling its mission.

**M. A. Paltsev**, M.D./Ph.D., D.Sci.  
Rector of the I. M. Sechenov Moscow  
Medical Academy  
RAMS First Vice-President  
RAS and RAMS Academician, professor  
«TEMPO» Scientific and Technical Council Chairman





programs of quality improvement in clinical, pre-clinical trials and production of bio-preparations in Russia  
 international educational projects in regulatory affairs  
 commercialization of scientific innovation projects, technology, transfer  
 projects in international biosafety area

[www.nptemp.ru](http://www.nptemp.ru)

## Non Commercial Partnership «TEMPO» Objectives:

- Development of innovative medical technologies
- Commercialization of research projects, technology transfer
- Enhancing of integration of Russian biotechnologists into global scientific community
- Attraction of Russian and Western entities to the Russian biotechnology sector
- Partnering with Western Industry and Academia
- Organization of conferences, workshops, and roundtables for «TEMPO» members
- Training of specialists in GXP areas and biosafety and biosecurity

## Non Commercial Partnership «TEMPO» Activities:

- Coordination of Research & Development
- Educational training programs for competency building of «TEMPO» members specialists
- Quality improvement of preclinical drug studies
- Development of biotech products. Pilot production
- Clinical trials
- Creation of educational platform in GXP areas and the base for regulatory affairs service
- Providing research support and coordination for «TEMPO» members in preclinical studies, bioprocessing, licensing, marketing and implementation of new drugs, biopharmaceuticals and technologies in compliance with the international standards
- Biosafety and biosecurity issues



## «TEMPO» Chronology

**2002 November** – the I. M. Sechenov Moscow Medical Academy together with ten Russian leading biotech and biomedical organizations initiated the foundation of a Non Commercial Partnership – Center of Modern Medical Technology «TEMPO»

**2003** – Strategy design, assessment of the Partnership's potential

**2004** – «TEMPO» provided leadership to the BII-sponsored Russian delegation at BIO in 2004, San Francisco, USA

- M.M. Shemyakin & Yu.A. Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences joined the Non Commercial Partnership «TEMPO»
- Co-organizer of the 1st International Conference on Molecular medicine and Biosafety, Moscow

**2004–2005** – Development and implementation firstly in Russia the educational training program on GLP with RAPS participation

**2005–2006** – Implementation of the Program «Biotechnology Entrepreneurial Competition»

- Co-organizer of the 2nd International Conference on Molecular medicine and Biosafety, and International Workshop «Bioterrorism: possible objects for affections and counteraction methods», Moscow

**2006** – Research-and-Production Union «Microgen», St. Petersburg State Medicine University named by I.P. Pavlov, Institute of Toxicology in St. Petersburg, D. I. Ivanovsky Institute of Virology, N. F. Gamaleya Institute of Epidemiology and Microbiology joined the Non Commercial Partnership «TEMPO»

- «TEMPO» provided leadership to the BII-sponsored Russian delegation at BIO in 2006, Chicago, USA
- Co-organizer of the «3<sup>rd</sup> Working International Group – Cooperation on Bio-Initiatives in Russia and the NIS: Toward a True Partnership», Como, Italy
- Co-organizer of the special session in the frame of the 3rd International Conference on Molecular medicine and Biosafety: «Strengthening the Global Biosafety System Against Infectious Diseases»
- Co-organizer of the International Workshop «Enhancing Biosafety and Biosecurity: an Agenda for Global Action Seminar for Experts from G-8 Countries», Moscow
- Co-organizer of the International Workshop «Enhancing Biosecurity and Biosafety: Developing National and International Strategies», Moscow
- Creation of the International Advisory Group on on Biosafety and Biosecurity, Moscow

**2006–2007** – Implementation of educational training programs on GMP

**2007** – 1<sup>st</sup> IAG Meeting, Heidelberg, Germany

- 2<sup>nd</sup> IAG Meeting, Moscow, Russia
- Co-organizer of the International workshop-training «Urgent Issues in Protecting Against Biological Threats», Moscow
- Implementation of the educational training program on biosafety and biosecurity





## Non Commercial Partnership «TEMPO» Members

I. M. Sechenov Moscow Medical Academy	<a href="http://www.mma.ru">www.mma.ru</a>
St. Petersburg State Medicine University named by I.P. Pavlov	<a href="http://www.spmu.runnet.ru">www.spmu.runnet.ru</a>
State Research Center of Virology and Biotechnology VECTOR	<a href="http://www.vector.nsc.ru">www.vector.nsc.ru</a>
State Research Center of Applied Microbiology and Biotechnology	<a href="http://www.obolensk.org">www.obolensk.org</a>
State Research Institute of Highly Pure Biopreparations	<a href="http://www.hpb-spb.com">www.hpb-spb.com</a>
State Research Institute of Biological Instrument-Making	<a href="mailto:niibp@dol.ru">niibp@dol.ru</a>
Research Center for Toxicology and Hygienic Regulation of Biopreparation	<a href="http://www.toxicbio.org">www.toxicbio.org</a>
Institute of Toxicology	<a href="http://www.toxicology.sp.ru">www.toxicology.sp.ru</a>
M. M. Shemyakin and Yu.A. Ovchinnikov Institute of Bioorganic Chemistry /Puschino Branch	<a href="http://www.ibch.ru">www.ibch.ru</a> <a href="http://www.fibkh.serpukhov.su">www.fibkh.serpukhov.su</a>
Institute of Physiologically Active Compounds of the Russian Academy of Science	<a href="http://www.ipac.ac.ru">www.ipac.ac.ru</a>
Open Joint Stock Company All-Russian Research Center for Molecular Diagnostics and Therapy	<a href="http://www.rrcmdt.narod.ru">www.rrcmdt.narod.ru</a>
Joint Stock Company Biochim mash - Institute of Applied Biochemistry and Machine Building	<a href="http://www.bioplaneta.ru">www.bioplaneta.ru</a>
Open Joint Stock Company - Institute of Immunological Engineering	<a href="mailto:imeng@tdn.ru">imeng@tdn.ru</a>
D. I. Ivanovsky Institute of Virology	<a href="http://www.virology.ru">www.virology.ru</a>
N. F. Gamaleya Institute of Epidemiology and Microbiology	<a href="http://www.gamaleya.ru">www.gamaleya.ru</a>
BIOCAD and Center of Immunological Engineering	<a href="http://www.biocad.ru">www.biocad.ru</a>
Research-and-Production Union «Microgen»	<a href="http://www.microgen.ru">www.microgen.ru</a>

## Non Commercial Partnership «TEMPO» Programs:

### EDUCATIONAL PROGRAMS

The main goal of «TEMPO» educational programs is to create the basis for quality assurance of preclinical and clinical trials of drugs and vaccines in Russia in accordance with GLP standards.

The implementation of this goal is to be accompanied by standardization and harmonization of R&D in «TEMPO» members and the following activities: development of internal quality standards of R&D based on GLP, GCP, GMP, GPP regulations; training of specialists for preclinical studies and clinical trials; organization and monitoring of quality of preclinical studies and clinical trials; independent assessment of preclinical studies and clinical trials.

«TEMPO» is being successfully performing the program on implementation of international GXP standards in the Russian Federation in past four years, particularly by organizing trainings for specialists in regulatory affairs area. The main goal of «TEMPO» educational programs is to create the educational platform as the hub for quality assurance system of preclinical and clinical trials of drugs and vaccines in Russia in accordance with GLP, GCP and GMP standards.

The specialists from «TEMPO» members and in coordination with the leading international organization RAPS (Regulatory Affairs Professional Society) have developed the first in Russia educational program on drug preclinical studies in compliance with GLP international standards and requirements. RAPS aims to create and upholding standards of ethics, credentialing and education for the regulatory affairs profession within the health product sector, maintain informational support and education. In 2004 the specialists from Russia for the first time became RAPS members, and namely «TEMPO» specialists. Currently negotiations on creation of RAPS division in Russia on the base of «TEMPO» and under the close participation of «TEMPO» are being carried out as the follow-up of long-term collaboration between the Partnership and RAPS.

The curriculum of the education program on GLP was approved by the Educational-Methodical Association of Medical and Pharmaceutical Insti-



«If say about the Partnership's activity is being performed for benefits of its members, these benefits are more fully accomplished in educational projects, because each organization is interested in improving the professional skills of its personnel. We are glad that the collaboration between our institute and NP «TEMPO» in the area of development the educational program and training of specialists, engaged in preclinical studies, was very successful. We are always ready to share our experience and do understand that development of the valuable educational program and training of more than 130 specialists is tremendous work that had happened due to the consolidated efforts of NP «TEMPO» and international collaboration».

**Anatoly Miroshnikov,**  
**RAS Academician, Deputy Director,**  
**M.M. Shemyakin &**  
**Yu.A. Ovchinnikov Institute**  
**of Bioorganic Chemistry RAS**





«Our institute was one of the organizers of NP «TEMPO» and nowadays is an active participant of its projects. It is significant to mention NP «TEMPO» educational programs which aim to improve professional skills of specialists in drug development and production. The educational programs are performed on high professional level. More than 50 specialists passed through these trainings and were issued the state diplomas in the frame of GMP project – practically all research and technical staff working at our production facility. We are ready to closely assist in further development of NP «TEMPO» activities in educational area and support its initiatives on implementation of GXP educational system in Russia».

**Valery Dobritsa, Professor,  
Director, State Research Institute of  
Highly Pure Biopreparations FMBA**



НП «ТЭМП»

## GMP: Стандарты производства лекарственных средств



U.S. CIVILIAN RESEARCH & DEVELOPMENT FOUNDATION

tutes that allowed issuing appropriate Russian state diplomas and state certificates to the successful trainees in accordance with established Russian legislation. To date 4 sessions were conducted, 130 specialists were trained. «TEMPO» educational program on preclinical trials was recognized by RAPS as the program that is in compliance with the international standards. The program is listed on [www.raps.org](http://www.raps.org) among other international training programs on regulatory affairs that officially approved and conducted by RAPS.

Non Commercial Partnership «TEMPO» started to implement a new project in February 2006 that aims at development of educational programs in GMP area and audit of biopharmaceutical manufacture, as well as training of specialists working on production of drugs, vaccines and biologics. The Working Group, consisting «TEMPO» and the I.M. Sechenov Moscow Medical Academy experts, has developed two novel training programs for the general course «Organization, preparation, manufacturing, quality assurance of drugs in accordance with GMP requirements» and for the special course «Audit of drugs, biopharmaceuticals and biologically active compounds manufacturing». The programs were approved by the Educational-Methodical Association of Medical and Pharmaceutical Institutes that allowed issuing appropriate Russian state diplomas and state certificates to the successful trainees in accordance with established Russian legislation. Gaining the experience of successful cooperation with RAPS on training of regular affairs specialists in





GLP area, «TEMPO» specialists accomplished the revision of GMP educational programs according to the recommendations of RAPS experts. This enables to bring the developed programs into line with international educational standards in regulatory affairs area. RAPS experts took part in conducting training and developing of training materials, as well as in auditing of the courses. Nowadays 3 sessions of the general GMP course were performed and more than 110 specialists were trained (in Moscow, Puschino of Moscow Region and Novosibirsk Region for Vector's personnel), as well as the session for auditors in which 20 top managers of production facilities from «TEMPO» members attended. The one of a very important key point of GMP course, which is conducted by «TEMPO», is practical training on the base of modern pharmaceutical factories, which operating in accordance with GMP standards (Research-and-Production Unit «PetrovaxPharm», Moscow, and «ABOLmed» Ltd Company in Novosibirsk). The practical training includes introductory presentation made by the company/the factory and GMP policy. A special interest was raised by the excursion at factory with visiting of restricted production (technical) areas, laboratories and storage facilities.

In addition to the regular training, «TEMPO» started to develop distance learning courses in the area of GXP based on elaborated education programs. Currently, interactive distance learning of «TEMPO» members specialists on the general GMP course, using modern Internet technologies, is performed. The tutors participate; training materials are used that allow trainees to get qualified education by self-learning.



«For us NP «TEMPO» is an informational ground for different biotech companies, international and governmental organizations where intensive information exchange takes place. Many of BIOCAD's employees raised their professional skills after completing the trainings on GLP, GMP and audit of drug manufacture. Such trainings are the connecting-link between BIOCAD and other manufactures for exchanging its valuable experience on GMP implementation. Participation in NP «TEMPO» organized conferences Silicon Valley Open Doors and BIO 2004-2006 allowed us to extend our business contacts with foreign partners in biotechnology area».

Eugene Topchiev,  
General Director, BIOCAD





## Commercialization Support

«TEMPO» is engaged in the solicitation and evaluation of innovations in biotechnology and public health to develop a database of potential investment opportunities for prospective investors. In support of this, «TEMPO» established a business plan competition, modeled on those at Stanford and MIT, called the Biotechnology Entrepreneurship Competition. The Competition Program aims to enhance participants' knowledge level in technology commercialization, stimulate interest of business entities to the most promising medical, pharmaceutical and biotechnological developments, attract investments and promote investable deals. Also it creates a 'learning-by-doing' experience for researchers at «TEMPO» member institutions to bridge the gap from the laboratory to the market. Three roundtables in Moscow, Novosibirsk, and St. Petersburg were carried out. They allowed attendees (representatives from academia and business, students-economists) to enhance the level of knowledge in commercialization and technology transfer, as well as face-to-face meet with foreign and Russian experts in venture capital, business development. The distinctive feature of the competition program is that students of Economic Faculties of Moscow and Novosibirsk State Universities and St. Petersburg State Technical University were matched with researchers on writing a joint business plan. The interactive training «How to write a business plan», developed by the International Science and Technology Center, was carried out among «TEMPO» member institutions.

As a whole, 50 applications were submitted from «TEMPO» member organizations and organizations, having joint project with «TEMPO» institutions, to the competition program. The independent Corporative Commission, that include the representatives of American venture companies and Russian biotech companies, as well as leading scientists, identified 20 semifinalists. Among them such institutes, as State Research Center VB Vector (antitumor preparation, live influenza vaccine, etc.), Institute of Highly Pure Preparations (new immunomodulators, GMP-production of peptides, etc.), JSC Biochimash (antiseptic preparation, etc.), Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry (recombinant allergic vaccine, etc.), IMTEK Ltd. (antiulcer preparation), I.P. Pavlov State Medical University (xenoaortic devices for correction of aortic heart diseases), State Scientific Center of the Applied Microbiology (production of TB-tests). 20 Semifinalists were chosen and «the creative team», that includes students-economists and scientists (principle investigators) was set up.

The round table/Press conference «The prospective development of biotechnology market in Russia: analysis, trends, prognoses» was initiated by «TEMPO» and held on 14 February 2006 at I.M. Sechenov Moscow Medical Academy. There were representatives from 15 business, public and professional (pharmaceutical and medicine) media, and news agencies; 2 TV channels; a representative from Radio «Voice of Russia. 12 Semifinalists attended the international biotechnology exhibition «BIO2006» in Chicago, USA, in April 2006.

Two finalists were selected, among them State Research Institute of Highly Pure Biopreparations, St. Petersburg, with the project «Combined wound coverings with the properties of artificial skin» and SRC VB Vector, Koltsovo, with the project «Development of anticancer adenovirus preparation «Cancerolisin».

Creating a 'learning-by-doing' experience for researchers at «TEMPO» member institutions, the book «Commercialization of biotech product»

was prepared by Moscow Urban Center of Innovation and High-Tech under the request from «TEMPO» and with the support of BioIndustry Initiative Program (USA) and CRDF. 500 copies were disseminated among «TEMPO» member organizations. This publishing is addressed to scientists, which are conducting research in biotechnology and aiming at commercialization of results.

«TEMPO» Commercialization Center began its activity under the support of the European Community and aims to expertise research projects and assists «TEMPO»'s members in searching the potential investors in Russia and abroad.

## «TEMPO» Activities in the establishing the framework of international biosafety

The Non Commercial Partnership «TEMPO» is actively developing the international cooperation in the field of biosafety and biosecurity. «TEMPO» participated in 14 conferences, ad hoc groups, roundtables and workshops in 2003-2007 that held in Italy, Poland, USA, and Russia. Two international workshops were conducted in 2006 at the I.M. Sechenov Moscow Medical Academy on biosafety and biosecurity issues and infectious diseases with participation of the G8 experts, Sweden and Singapore. The Global Partnership Program of the Department of Foreign Affairs and International Trade (DFAIT) Canada supported the events through the International Science and Technology Center. By the end of the second meeting, which took place in November 2006, the International Advisory Group (IAG) on Biosafety and Biosecurity was established and the members agreed a terms of reference. The subgroups are:

1. General Issues of Biosafety and Biosecurity;
2. Education and Training and Public Awareness;
3. Specific Topics of Biosafety and Biosecurity;
4. Biosecurity and Biosafety at Biotechnological/Pharmaceutical Facilities;
5. Individual Biosecurity and Biosafety; and
6. Emerging and Re-emerging Infectious Disease.

The IAG is a standing group of international and Russian experts interested in enhancing biosafety and biosecurity. Its main objectives are to:

- Increase awareness of the importance of biosafety and biosecurity within the scientific community, government, industry (public-private cooperation) and society more broadly;
- Review, assess, and offer the expertise of national and international programs in biosecurity and biosafety according to international standards;
- Provide recommendations for use by federal agencies and other international entities as needed, on programs and activities to improve biosafety and biosecurity and enhance national and international security; and
- Assist, as needed, to help implement new programs and activities.

In addition to financial support, DFAIT contributed to the creation of the IAG and actively take part in its activities. IAG activities are coordinated by the Non Commercial Partnership "Center of Modern Medical Technology" (NP «TEMPO»), the I.M. Sechenov Moscow Medical Academy (MMA) and the International Council for the Life Sciences (ICLS).

The 1st IAG meeting was convened in Heidelberg, Germany in March 2007. The IAG met senior representatives from the European Molecular Biology Organisation (EMBO) and the European Molecular Biology Labora-



International Advisory Group on Biosafety and Biosecurity

«Non Commercial Partnership has achieved significant results in area of biosafety and biosecurity. TEMPO initiated the establishment and standing work of the International Advisory Group on Biosafety and Biosecurity. NP «TEMPO» is the organizer of international workshops in this field, that include development and implementation of educational training programs in accordance with international standards. NP «TEMPO» is actively participating in the Scientific Council on Biosafety under RAMS Presidium. In that way, there is a unique chance for close and constant cooperation of experts, working in directions connected with securing of population biosafety».

**Alexander Gintsburg,**  
**RAMS Vice-president,**  
**RAMS Academician, Director,**  
**N.F. Gamaleya Institute**  
**of Epidemiology and Microbiology**  
**RAMS**



«Because of NP «TEMPO» activities in the area of biosafety and biosecurity, specialists and scientists from Russia and CIS got a unique opportunity to attend the international conferences and trainings on biosafety and biosecurity issues, organized by European and American Biosafety Associations. This direction is raising the effectiveness of the International Advisory Group on biosecurity and biosafety that was created by NP «TEMPO». Management and coordination of IAG by NP «TEMPO» gives opportunity for conducting of subgroup working meetings of IAG members for discussing different aspects and problems of biosafety and biosecurity».

**Petr Deryabin, Professor,  
Deputy Director, D.I. Ivanovsky  
Institute of Virology RAMS**

tory (EMBL) to discuss the potential for international collaboration and to exchange information regarding their respective fields and organisations. IAG members also participated in training workshops as part of the annual conference of the European Biosafety Association (EBSA). The group also reviewed the World Health Organization's Laboratory Biosecurity Guidance Document and submitted a written summary of comments to the WHO. The International Advisory Group (IAG) held its second meeting in Moscow on 18 and 19 October 2007 at the I. M. Sechenov Moscow Medical Academy (MMA), where a new strategy was agreed for the future activity of the IAG whereby one meeting of the full IAG (instead of two) will take place each year with more intersessional meetings of the sub-groups.

The international workshop-training «Urgent Issues in Protecting Against Biological Threats» was organized by «TEMPO», MMA, IAG, ICLS on 18 October 2007 in the frame of the 2nd Russian Medical Forum and the 4th International conference «Molecular medicine and biosafety» under the support of DFAIT and the ISTC. On 18 October 2007 an information exchange day was held at the MMA's Pharmacy Institute for more than 90 participants. During an information exchange day participants in addition to the IAG members were invited to present and discuss on topics in the following areas on two parallel sessions:

- Biosafety and biosecurity training and standards; and
- Communicable disease developments in the light of migration and climatic change (including avian flu virus, West Nile virus, tuberculosis and malaria).

75 Russian experts from 28 organizations and 17 International experts from 12 organizations, that represented 5 countries, including Canada, USA, UK, Kazakhstan, Kyrgyzia attended the Workshop.

Nowadays «TEMPO»'s initiative is to develop educational training programs in biosafety and biosecurity in according to the national standards and international requirements. The main stages of the programs' implementation are development of programs in biosafety and biosecurity, international audit of the programs, train the trainer programs, competency building programs for «TEMPO» members' specialists.



## Conferences/Workshop Activities

Since 2002, «TEMPO» has participated and presented its activities at 15 scientific conferences, workshops, roundtables and exhibitions, which took place in Finland, Italy, Poland, USA, Republic of South Korea. The most interesting in terms of commercialization of scientific developments, were the following events:

- Presentation of Russian institutions at the Investment Conference «Silicon Valley Open Doors» (SVOD) in 2005 and 2006
- «TEMPO» and the I.M. Sechenov Moscow Medical Academy have established their position as leading networking platforms for biosafety through the organization of four international conferences «Molecular medicine and biosafety» and International Workshops on Biosafety in 2004-2007 together with BII, ISTC, Global Partnership Program of Canada, ICLS.
- «TEMPO» is the member of Bio Industry Organization (BIO). TEMPO provided leadership to the BII-sponsored Russian delegation at BIO in 2004-2006. In 2006 «TEMPO» hosted a session entitled «Issues in International Biotechnological Technology Transfer: Russia» under the support of BII Program. 35 specialists from «TEMPO» member institutions and leading Russian biotechnology organizations were attended. «TEMPO» together with BII took part in developing the book «Biotechnology Russia 2006», that was issued and disseminated during BIO2006 in Chicago, USA, and then in Russia. The book contains the information on profiles, activities and new developments of «TEMPO» members and leading biotechnology entities in Russia.

## OUR PARTNERS

### **State «Moscow Urban Center of Innovations and High-Tech», Government of Moscow.**

The Center is supporting innovation activities and development of business programs among young people.

### **IFTI – [www.ifti.ru](http://www.ifti.ru) – International Foundation of Technology and Investment**

IFTI is promoting Russian inventions on the world market, assisting in commercialization of R&D, grants projects, scientific and technical consulting.

### **BII – [www.biistate.net](http://www.biistate.net) – BioIndustry Initiative (BII) Program of the U.S. State Department**

BII invests significant effort into matching the best research or production institute with the appropriate industry partner to develop a strategic plan optimized for success. BII is able to support all aspects of a given project, from intellectual property management to product launch. Initiative has instituted significant capacity building measures to support the emerging Eurasian biotechnology sector in development and production of drugs and vaccines.

### **CRDF – [www.crdf.org](http://www.crdf.org) – U.S. Civilian Research & Development Foundation**

CRDF is a nonprofit organization authorized by the U.S. Congress and established in 1995 by the National Science Foundation. This unique public-private partnership promotes international scientific and technical collabora-



«In its five years of existence NP «TEMPO» can truly record a number of significant achievements. It has created a vibrant network of the leading life science research organizations. Not only is the network they have created working in Russia but it has proved adept at working with international partners. Their efforts have brought benefits to all the participants. NP «TEMPO» has created lasting partnerships with organisations such as ICLS that has produced a standing International Advisory Group which is setting a fine example in international cooperation among leading experts on key issues in relation to biosafety and biosecurity. I am confident that the Russian life science community will benefit greatly».

**Terence Taylor, Director,  
International Council  
for the Life Sciences**



ration, primarily between the United States and Eurasia, through grants, technical resources, and training.

**ISTC – [www.istc.ru](http://www.istc.ru) – International Science & Technology Center**

ICTS was established by international agreement in November 1992 as a nonproliferation program. Through its political, legal, and financial frameworks, the ISTC contributes to Fundamental Research, International Programs and Innovation and Commercialization, by linking the demands of international markets with the exceptional pool of scientific talent available in Russian and CIS institutes.

**PIIPA – [www.piipa.org](http://www.piipa.org) – Public Interest Intellectual Property Advisors, Inc.**

PIIPA is an international non-profit organization that makes intellectual property counsel available for developing countries and public interest organizations who seek to promote health, agriculture, biodiversity, science, culture, and the environment.

**ICLS – [www.iclscharter.org](http://www.iclscharter.org) – International Council for the Life Sciences**

ICLS is a non-profit, membership-based organization, that dedicated to enhancing biological safety and security by safeguarding advances in the life sciences and facilitating partnerships between governments, international inter-governmental organizations and the life sciences community.

**RAPS – [www.raps.org](http://www.raps.org) – Regulatory Affairs Professional Society**

RAPS is the foremost worldwide member organization creating and upholding standards of ethics, credentialing and education for the regulatory affairs profession within the health product sector.

**Global Partnership Program, Foreign Affairs and International Trade Canada – [www.international.gc.ca](http://www.international.gc.ca)**

The GPP was created to implement projects in Russia and other countries of the former Soviet Union, in cooperation with these countries and/or other G8 nations, to reduce the threat posed by weapons and materials of mass destruction (WMD) to Canadians and the international community.

