



Mid-Atlantic - Russia Business Council

Pennsylvania-Russia Business Council

Country Profile of the Russian Federation for BIO-2006

Historically, Russia has had a well-developed biology and biotechnology industry and it is currently a leading producer of many biotechnology items including immunobiological medications, veterinary products, and environmental protection technology. Russia has been experiencing significant growth in the field of analytical instrument manufacturing and increasing demand for its advanced technical skills. As global concern for biosafety and for the preservation of biodiversity has increased, there has been a greater demand for Russian expertise in cell technologies, bioinformatics, post-genome technologies (proteomics, metabolomics), and nanotechnologies.

Both the Russian government and private industry have recognized the need to improve the legal and economic environment for the biotechnology industry. In order to improve coordination between the public and private sectors, the Russian state has launched a national program entitled “Biotechnological Development in Russia in 2006 – 2015.” This program aims to combine both government and private-sector efforts to foster the further development of fundamental and applied biotechnology. Included in the program are plans to support science centers and to support regions of Russia that emphasize biotechnology and other scientific endeavors.

Russia provides significant opportunities in the fields of manufacturing, research and development, and in innovative biotechnologies. Russian specialists in the physicochemical biology and biotechnology industries are extremely well-qualified and over 1,000 Russian institutions and organizations conduct research in these areas.

The Mid-Atlantic – Russia Business Council (MARBC) continues its efforts to make the Mid-Atlantic region a center of Russian-American biotechnological cooperation, and will host the 4th Semi-Annual Biotechnological Russian-American Innovation Technology Week (RANIT) in April 6-12, 2006. The 4th RANIT will open in Philadelphia as BIO 2005 did, and will conclude with BIO 2006 in Chicago with an extensive Russian program. During the first day of the conference, dedicated to international programs, MARBC will conduct a Country Seminar on Russia and a presentation of the Russian biotechnology industry.

The BioIndustry Initiative (BII), a nonproliferation program of the U.S. Department of State, is sponsoring a 60-member delegation of leading life sciences researchers and bio-entrepreneurs from Russia, Ukraine, Kazakhstan, Azerbaijan, Uzbekistan and Georgia. The delegation has been organized in cooperation with the International Science & Technology Center, Moscow, the Science & Technology Center of the Ukraine, Kiev, and TEMPO, Moscow, a consortium of Russian biomedical research institutes and companies. A Eurasian booth will display the most promising achievements of Russian and other Eurasian scientists and manufacturers in the field of biotechnology. Highlights of unique capabilities and novel technologies:



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- Preclinical toxicology research, including GLP compliant studies
- Unique compound libraries and high throughput screening technology for drug discovery
- Next generation antibacterial, antifungal and antiviral agents
- Immunomodulators and immunotherapeutics
- Novel therapies in oncology
- Probiotics
- Veterinary products – unique vaccines, biologics, antibiotics and feed supplements
- Agrobiotechnology – plant growth stimulators and plant protection technologies
- Environmental remediation
- Biosecurity applications
- Monoclonal antibodies specific to antigens of low immunogenicity
- Plant-based biologically active substances for novel therapeutics
- Novel stentless xenoaortic prosthesis
- Biochip technology for diagnostics
- Nanotechnology based delivery systems and novel biopolymers
- Production of specialty peptides
- Protein expression technologies
- Plant cell culture based production technologies for manufacturing pharmaceuticals
- Custom organic synthesis
- Large-scale production of industrial enzymes, antibiotics and animal feed supplements
- Nutrient media production

BIO 2006 Russian Participation:

- **The 4th Semi-Annual Biotechnological Russian-American Innovation Technology Week (RANIT)**, April 6-12, 2006, Philadelphia – Chicago
- **Country Seminar on Russia**, Room S404D at the South Building of the McCormick Place Convention Center; 2:40 pm - 3:30 pm, April 9, 2006
International Program: International Country Seminar
- **Russian Exhibit at the International Marketplace**, Level 400 Hallway at the South Building of the McCormick Place Convention Center, 11:30 am – 6:30 pm, April 9, 2006
- **Issues in International Biotechnological Technology Transfer: Russia**
Track: Doing Business Globally, April 11, 2006, <http://www.nptemp.ru>
- BII-sponsored Delegation and Booth #1889: **Biotechnology Russia and Eurasia**
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