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News



The new action plan on the "Development of biotechnologies and genetic engineering" for 2018-2020 was approved by the Russian Government decree.

The plan aims at developing domestic demand, manufacturing and exports of biotech products, and building institutional environment in order to modernize the technology base of the industry through mass introduction of biotech methods and products.

It provides for further expansion of production potential and cooperation in the area of biomedicine and biopharmaceuticals, agricultural and industrial biotechnology, bioenergetics, forest and environmental biotechnology, and genetic engineering.

The goals and indicators for the development of the biotechnology have been established, to evaluate the implementation of the plan.

<http://government.ru/docs/31566/>



Russia's financial contribution to implement the Interreg Baltic Sea Region transnational cooperation programme

The 2014-2020 Interreg Baltic Sea Region transnational cooperation programme is an instrument the implementation of joint cross-border projects between regions of the Russian Federation, states of the European Union and Norway that promote balanced socioeconomic development in the Baltic Region. Implementation of the Programme helps to foster ties between regions of Russia and EU countries, support environmental safety, and develop infrastructure.

For the Russian regions that are part of the Northwestern Federal District, this format of interregional cooperation is an effective tool for addressing regional issues, as well as an additional source of funding regional initiatives.

Funds in the amount of 4.4 million euros will be allocated from the federal budget to implement the Agreement after its ratification as Russia's contribution to the Programme (1.5 million euros in 2017, 1.5 million euros in 2018, 1.4 million euros in 2019). These funds are provided for in the federal budget for 2017 and for the planning period of 2018 and 2019.

<http://government.ru/en/docs/31980/>



The first meeting of the Interdepartmental Council on the formation of CRP "Modern problems of aquaculture"

March 22, 2018 in the Federal Agency of Scientific Organizations held the first meeting of the Interdepartmental Council on the formation of a comprehensive research plan "Modern problems of aquaculture" (CRP "Modern problems of aquaculture").

The main directions of the implementation of this CRP were approved during the meeting. This aims at the development of the fundamental foundations of biotechnology of aquaculture, genetic methods and breeding, fodder base, as well as working out the influence of aquaculture on the state of aquatic biological resources and the environment.

http://fano.gov.ru/ru/press-center/card/index.php?id_4=39773



Finalists of the Agro & MedTech GenerationS track presented new varieties of rice and biodegradable packaging

The track Agro & MedTech of the federal startup accelerator GenerationS from the Russian venture company in the field of agrotechnology has come to the end. The jury selected the 3 best start-ups who will take part in the GenerationS final and compete for the prize fund of 16 million rubles.

The winners in the track were three projects: "New varieties of black and red rice" Super Food", "Production of bio-packaging from algae" and "EcoPak "

Participants in the startup "New varieties of black and red rice" Super Food "managed to bring out a new grade of black rice. "Superproduct", which was presented by the team, is 20 times richer with antioxidants than conventional round-rice rice, and the content of microelements and vitamins in it is 5-8 times higher.

<http://generation-startup.ru/news/articles/43463/>



Draft law on legal regulation of bioethanol production

The draft federal law "On Amendments to the Federal Law" On State Regulation of Production and Turnover of Ethyl Alcohol, Alcohol and Alcohol-Containing Products and on Restriction of Alcohol Consumption "was prepared by the Russian Ministry of Finance. The document introduces the definition of the concept of "bioethanol".

The procedure for licensing the production, storage and supply of bioethanol, as well as the cancellation of the relevant license, is determined.

Specific requirements are stipulated for equipping the main process equipment used for bioethanol production with automatic means for measuring and accounting for the concentration of denaturing substances in bioethanol.



A ban on the production of ethanol from food raw materials by enterprises producing bioethanol is being established.

<http://government.ru/activities/selection/301/31750/>



“Evalar” obtained a Certificate of Russian GMP compliance

Pharmaceutical company Evalar CJSC pursuant to the Order of the Ministry of Industry and Trade of the Russian Federation received a Certificate of compliance with the requirements of Russian GMP.

Certificates for GMP compliance were issued for manufacture of non-sterile medicinal products: solid (tablets, capsules, powders) and liquid dosage forms for external and internal use, biological and herbal medicinal products, as well as pharmaceutical substances.

In 2016, the company increased size of its business units responsible for pharma technologies and medicinal products introduction in manufacturing. The number of clinical trials has grown, and the leading scientific organizations have become the partners, among them: Pirogov Russian National Research Medical University, I.M. Sechenov First Moscow State Medical University, Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakov and others — more than 30 sites.

<https://gmpnews.net/2017/02/evalar-obtained-a-certificate-of-russian-gmp-compliance/>



Russian-German scientific discussion "Life Sciences - a bridge between science and business"

February 21, 2018 in Moscow was a Russian-German scientific discussion on the cooperation of science and business in life sciences (Life Sciences) in Germany and Russia.

The event was organized by the German Embassy in Moscow in cooperation with the German House of Science and Innovation (DWIH), the Helmholtz Association, and the Bayer and Merck companies.

About 200 participants attended the event, the aim of which was to present successful models of cooperation between science and business in Russia and Germany, and to give impetus to new partnership relations.

In the first part of the event, representatives of the Embassy of the Federal Republic of Germany in Moscow, the Ministry of Education and Science of the Russian Federation, Helmholtz and the Federal Research Center "Fundamental Foundations of Biotechnology" of the Russian Academy of Sciences made presentations on programs of scientific research in the field of life sciences.

The final section of the event was devoted to the opportunities and tools for supporting Russian-German cooperation in science and innovation. German and Russian scientific organizations and foundations presented their programs to support scientific and innovative projects and answered questions from participants.

<http://www.dwih.ru/de/meropriyatiya/deutsch-russisches-symposium-lebenswissenschaften-als-eine-br-cke-zwischen-wissenschaft-und-wirtscha/>



Open Calls



Call for the best fundamental scientific research projects, conducted jointly by the Russian Foundation for Basic Research and the Austrian Scientific Foundation

The task of the Contest is to support fundamental scientific research, to develop international cooperation in the field of basic scientific research, to promote the inclusion of Russian scientists in the world scientific community, and to create conditions for the implementation of joint scientific projects by scientists from Russia and Austria. The competition can be submitted to the projects of fundamental scientific research in the following scientific areas:

- (03) chemistry and materials science;
 - (04) Biology;
 - (15) fundamental principles of medical sciences;
 - (16) fundamental principles of agricultural sciences.
- The project implementation period is 3 years or 4 years.

http://www.rfbr.ru/rffi/ru/contest/o_2058186

<http://www.fwf.ac.at/>



Continuous Competition for Joint Russian and French Research Projects within the Framework of International Associated Laboratories (LIA) and International Joint Units (UMI)

The Russian Foundation for Basic Research (RFBR) in accordance with the Agreement on scientific cooperation with Centre National de la Recherche Scientifique (CNRS) proceeds with continuous competition NCNIL_a (with no time limit for submitting an application) of joint research projects conducted by groups of Russian and French scientists in the following knowledge areas:

- (01) Mathematics, Informatics and Mechanics
- (02) Physics and Astronomy
- (03) Chemistry
- (04) Biology and Medical Sciences
- (05) Geosciences
- (06) Humanities and Social Sciences
- (07) Information and Telecommunication systems
- (08) The Fundamentals of Engineering Sciences

The Competition supports research being conducted by Russian and French scientists in the research areas of mutual interest.

Attention! A requirement for participation in the Competition is to include the scientific organization, which employs the Russian supervisor of the project, in the Agreement on the establishment of the LIA/UMI, as well as the availability of financial support from the CNRS, which is necessary for work on the project in France. In coordination with the CNRS, within the framework of the Competition “NCNIL_a” the RFBR funds no more than 5 projects from each LIA or UMI during the term of the respective Agreement on the establishment of the LIA/UMI.

http://www.rfbr.ru/rffi/eng/contests_international_announcement/o_1782797



Events



XII International forum "Green economy" 21-23 May 2018

Russian Federation, St. Petersburg, Konstantinovsky Palace

The International Forum "Green Economy" includes a plenary session, a working program with reports and presentations, an exhibition of modern technologies, products and services announced by the Forum topics, as well as a visit to existing enterprises. As a result, problems that would impede the introduction of innovative technologies and the development of the sectors under consideration will be formulated, and proposals for an integrated approach to solving these problems will be developed.

<http://greeneconomy.pro/>



International Forum "Biotechnology: state of the art and perspectives. Life Sciences" International specialized exhibition "Biotech World & Life Sciences", 23 - 25 May, 2018

Ilyinka, 4, Gostiny Dvor, Moscow

The Forum participants include businesses and organizations from 40 Regions of the Russian Federation, as well as international companies and organizations. The Forum is organized by Russia's Ministry of Industry and Trade, Ministry of Economic Development, Federal Agency for Scientific Research Organizations, and Moscow City's Department of Nature and Environmental Protection, Department of Science, Industrial Policy and Entrepreneurship.

Technological Platform «Bioindustry and Bioresources»* invites you to take part in the sections:

- ✓ "Scenarios for the transition to a new agriculture and functional nutrition: in search of ways to implement the priority of scientific and technical policy of the Russian Federation".
- ✓ "Biotechnology for the modern cosmetic industry"

** Technological Platform «Bioindustry and Bioresources» is a key expert organization in biotechnology sector in Russia.*

<http://eng.biomos.ru/index.htm>

<http://biotech2030.ru/about-us/>



Partner Search



GROUP OF MATHEMATICAL STUDY OF AMINO ACID AND DNA SEQUENCES (Federal State Institution «Federal Research Centre «Fundamentals of Biotechnology» of the Russian Academy of Sciences»)

1. The GROUP has developed the mathematical method for search and annotation of promoter sequences. The GROUP proposed a new solution to the NP-complete problem, which occurs when a multiple alignment of both amino acid and nucleotide sequences is created. The found mathematical solution allows us to align weakly similar sequences. The developed method was applied for multiple alignment of promoters from *Arabidopsis thaliana* genome. The resulting multiple alignment is used to search for promoter sequences from different genomes. The developed algorithms allow efficient search of promoters in eukaryotic genomes.

2. Search for reading frame shift mutations in genes from different species.

A new mathematical method has been developed to search for frame shifts in genes. The method does not require tuning and training sets. We applied an approach for studying eukaryotic genes and showed that more than 20% of known eukaryotic genes contain mutations of the frame shift type.

3. Search for highly eroded repeats in nucleotide or amino acid sequences.

A mathematical method for searching for blurred repeats in genomes or in amino acid sequences has been developed. It is shown that more than 10% of the eukaryotic genome contains previously unknown tandem repeats. To find the database please follow the link: <http://victoria.biengi.ac.ru/cgi-bin/indelper/index.cgi>

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