

**INSTITUTE OF WORLD
AGRICULTURAL MARKETS**

MEDIA DIGEST

08.01 – 14.01.2024



THREE MAIN TOPICS

- **American Scientists Carried out the World's First Successful Regeneration of Wheat from a Single Cell**
- **Newcastle Disease Outbreak Detected in Türkiye for the First Time in 16 Years**
- **Bloomberg: 2024 Could Be the Hottest Year on Record**



EDUCATION

EDUCATION / 11.01.2024

ASAU Launched a Video Course on the Use of UAVs in Agriculture

The educational resource "Lecture Hall 20.35" posted an educational video course "Using UAS in Agriculture", prepared by specialists and graduates of the "Flight School" of the Altai State Agrarian University. The educational video course became the first joint educational project of ASAU and "University 20.35". It includes a series of 6 videos ranging from 11 to 20 minutes, each of which talks about a specific aspect of the operation of agricultural drones.

[Russian drones](#)



EDUCATION / 11.01.2024

Timiryazev Academy and Chinese Agricultural University Are Aimed at Cooperation

In Beijing, representatives of the two universities discussed issues of cooperation in the scientific and academic fields. Based on the results of the meeting of the RGAU-Moscow Agricultural Academy named after K.A. Timiryazev received a draft memorandum of understanding for approval. Negotiations on cooperation took place thanks to the participation of the Timiryazev Academy in a meeting of representatives of specialized associations of Russia and China, including the Russian-Chinese Association of Agricultural Scientific and Technical Innovations. [Timiryazev Academy](#)

EDUCATION / 13.01.2024

Khabarovsk Will Begin to Train Agronomists

In the summer, the Pacific State University of Khabarovsk will begin enrolling students in the field of "Innovative Agricultural Technologies," the press service of the Ministry of Agriculture and Food of the Khabarovsk Territory said. Cooperation with the Far Eastern Research Institute of Agriculture was also discussed. Cooperation with the Far Eastern Research Institute of Agriculture was also discussed. A basic department will be created on the territory of the institute, where classes in the disciplines of "genetics" and "breeding" will be conducted. A total of 25 budget places are provided for full-time study. [Voctok.Today](#)



SCIENCE / 09.01.2024

A Tomato-Based Vaccine Was Developed in Uzbekistan

Scientists in Uzbekistan have created an edible tomato-based vaccine against COVID-19, it is called TOMAVAC. This follows from data posted on the website of the research journal *Frontiers*. According to the journal, scientists inserted a gene fragment encoding the antigenic protein S1 of the coronavirus into special vectors and integrated it into the genome of tomato cells. From these cells, a tomato plant was obtained that reproduces the S1 antigen protein. As a result, it was shown that tomato fruits obtained from these plants synthesize a stable antigenic protein S1 and were selected as a new vaccine. [TASS](#)

SCIENCE / 11.01.2024

Chinese Scientists Learned to Extract Feed Protein from Coal

Chinese scientists have developed a technique that makes it possible to extract feed protein from methanol obtained during the gasification of coal. This is stated in a report from the *Hunan Daily*, which was reviewed by *sfera.fm*. Due to this development, in the future they hope to reduce China's dependence on imports of feed soybeans. Scientists expect that the development of this technology for the production of feed protein will reduce dependence on the supply of soybeans, which are currently imported in the amount of about 100 million tonnes per year. [Rambler](#)

SCIENCE / 15.01.2024

American Scientists Carried out the World's First Successful Regeneration of Wheat from a Single Cell

The *AgroXXI.ru* portal has read the release of Cibus, Inc., San Diego, USA, which reports the first successful regeneration of a whole wheat plant from individual cells. Such a mechanism is essential for the company's patented high-speed selection process, called the Trait Machine, which is designed for a key grain crop integral to food security around the world. [Grain Online](#)

SCIENCE / 15.01.2024

New Straw Processing Method Could Boost Crop Profitability by up to 65%

A scientist from the Don State Agrarian University has developed a new method for processing agricultural waste - wheat, sunflower, corn into grain. The production of building materials from recycled straw and crop residues will increase the profitability of these crops by 40-65%. In addition, scientists have developed an experimental drying press that will help speed up the drying process and reduce the consumption of impregnating materials. [Sfera](#)





INNOVATION

INNOVATION / 08.01.2024

Rosaviatsia Issued the First Certificates of Airworthiness to Agrodrones

For the first time in the history of Russian civil aviation, Rosaviatsia issued airworthiness certificates for unmanned civil aircraft (UCA) weighing more than 30 kg. Documents have been received for two agricultural drones - they have been assigned registration numbers RA-134EP and RA-135EP. This was reported on the website of the Federal Air Transport Agency (Rosaviation). It is noted that drones weighing less than 30 kg are not required to obtain airworthiness certificates under Russian law. [GlavPahar](#)



INNOVATION / 08.01.2024

Chinese Scientists Developed a Laser-Powered Drone for “Eternal” Flight

Specialists from China's Northwestern Polytechnic University have invented a module that converts light energy into electricity and allows drones to be charged in the air. The creators do not disclose the details of the project in order to avoid its use for military purposes, but they assure that with such an engine the drone will be able to rise to the height of a skyscraper. It is noted that the device showed effectiveness in tests. [Izvestia](#)



INNOVATION / 10.01.2024

Belarusian Scientists Began Printing Cutlets on a 3D Printer

Scientists from the Institute of Meat and Dairy Industry of Belarus have developed recipes for natural dry meat mixtures that can be used as raw materials for printing food on a 3D food printer. The peculiarity of the development is that the raw materials used are completely natural. It contains no preservatives, dyes, stabilizers, taste and aroma enhancers, Irina Kaltovich, head of the sector for comprehensive research of meat products at the Institute of Meat and Dairy Industry, said on the Belarus.News program. [ViZh](#)



WORLD MARKET

WORLD MARKET / 08.01.2024

India Will Continue to Raise Agri-Exports

India's agricultural exports will rise from last year in the 2023/24 fiscal year despite restrictions on wheat, rice and sugar, the country's Commerce Minister said on Monday amid efforts to diversify supplies. India, the world's second-largest producer of wheat, rice and sugar, last year curbed exports of those commodities in an attempt to curb rising domestic prices. These restrictions will likely lead to a shortfall of \$4 billion to \$5 billion this year. [Reuters](#)



WORLD MARKET / 10.01.2024

Argentina Lifts Restrictions on Beef Exports

Argentina's National Agro-Food Health and Quality Service (SENASA) has given the green light to the export of all beef cuts, fresh, chilled or frozen. The differentiation between the export of cows of categories D and E and bulls, better known as the "Chinese cow", has also been abolished. Phytosanitary authorities have also begun adapting veterinary control services and computer systems to the new conditions, in particular the export certification system, which came into force on Monday. Meatinfo.ru

WORLD MARKET / 12.01.2024

Newcastle Disease Outbreak Detected in Türkiye for the First Time in 16 Years

Türkiye reported an outbreak of Newcastle disease to the World Organization for Animal Health in January this year. The last time Newcastle disease was reported in the country was in January 2007. The outbreak was detected in the province of Agri, in a private farm. The dysfunctional farm housed 220 birds, 3 of them got sick and died, the rest were destroyed. Nasdaq



WORLD MARKET / 13.01.2024

China Lifts Ban on Belgian Pork Imports

China has again allowed imports of pork from Belgium more than five years after the outbreak of African swine fever (ASF) in Belgium, the Chinese Ministry of Agriculture and Rural Development said on January 12, the Dutch portal Nieuwe Oogst reported. Let us recall that in September 2018, ASF broke out in Belgium. China, which was also battling a large number of ASF outbreaks at the time, closed its borders to pork from Belgium. IA Krasnaya Vesna



ANALYTICS



ANALYTICS / 09.01.2024

Bloomberg: 2024 Could Be the Hottest Year on Record

Scientists have suggested that 2024 could break the record of 2023 and become the hottest year on record. Bloomberg reports this with reference to scientists. The average temperature on the planet will increase by 1.3–1.6° compared to the pre-industrial period. Global temperatures will continue to be affected by the natural phenomenon El Niño, which is associated with temperature fluctuations in the surface layer of water in the equatorial Pacific Ocean.

Kommersant

ANALYTICS / 10.01.2024

CEPEA: Brazil Set a New Record for Chicken Exports in 2023

According to a report from Brazil's Center for Advanced Economic Studies (CEPEA), the country's chicken export volumes have hit historical records for the third year in a row. At the same time, high production volumes led to a significant decrease in prices for chicken meat on the domestic market. According to the center, from January to September 2023, more than 4.75 billion chickens were slaughtered in the country. This is 4.6% higher than the same period last year and is a record among statistics published by the Brazilian Institute of Geography and Statistics since 1997. [ViZh](#)



ANALYTICS / 11.01.2024

The Number of Organic Producers in the Russian Agro-Industrial Complex Increased by 18%

In 2023, the organic products market continued its development. A total of 262 organic certificates were issued from 2019 to 2022. In 2023, their number increased by 123 (14%), reaching 385. The increase in the number of organic producers was 18%, now there are 177 in the country. On July 4, 2023, the Development Strategy for the Production of Organic Products until 2030 was also approved. According to Roskachestvo, with the adoption of the Strategy, the number of Russian and foreign manufacturers wishing to certify their products according to Russian standards has increased several times [Milknews](#)

