Cuba and China promote 10 new joint scientific projects

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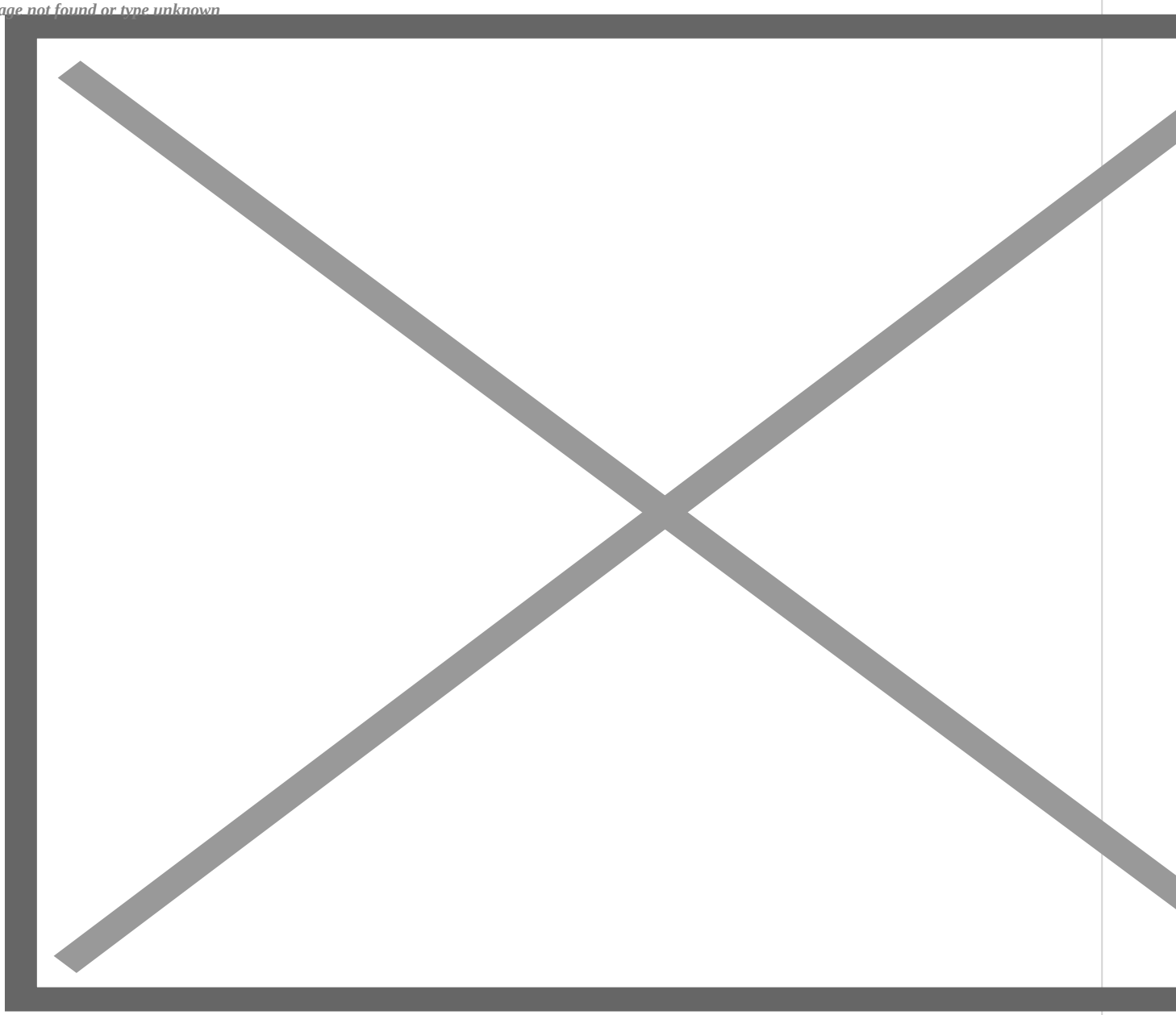

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Havana, December 29 (RHC) Cuban scientific institutions and China will develop 10 new joint projects, according to the Ministry of Science, Technology and Environment of Cuba (CITMA).

The entities will work in various fields, including those related to food, nanotechnology and nano sciences, automation, health and climate variability, among others.

Concerning food production, the approved projects include the sustainable use and management of sweet potato biodiversity in conventional genetic improvement, as well as the development of key technologies to prepare immunity inducers in plants based on saccharides and peptides from biological materials.

In the field of sustainable use of biodiversity and climate change, a project to evaluate the potential for remediation of environmental liabilities with severe impacts on biodiversity and ecosystems in mineral districts of the Pinar del Río province was approved.

In the branch of automation, robotics and artificial intelligence, the chosen project was the integrated management platform for an intelligent ecological cement plant based on industry 4.0.

Meanwhile, there are three proposals in the field of Life Sciences: development of a digital microfluidic system for the automatic diagnosis of Covid-19; mining of peptides with functions similar to the anticancer peptide CIGB-552, and construction of complex nanoparticles for the treatment of triple negative breast cancer.

Regarding Nanoscience and Nanotechnologies, scientists will work on the mechanisms of mechanical-electrical-thermal coupling of ferroelectric and piezoelectric materials on the micro and nano scale, and their applications in transducers. (Source: PL)

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