

China Science & Technology NEWSLETTER

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Department of International Cooperation Ministry of Science and Technology(MOST), P.R.China

2017 Top 10 Breaking News of China's Scientific Advances

[Developments of International Science and Technology Cooperation]

China and Italy jointly launch China Seismo-Electromagnetic Satellite (CSES)

Minister Wan Gang Meets Quebec Premier

Vice-Minister Huang Wei Co-chairs 4th Session of China-Serbia Inter-governmental Committee on S&T Cooperation

Sino-French Fusion Energy Center Launched

Sponsor: Department of International Cooperation, Ministry of Science and Technology(MOST), P.R.China

Organizer: China Association for International Science and Technology Cooperation

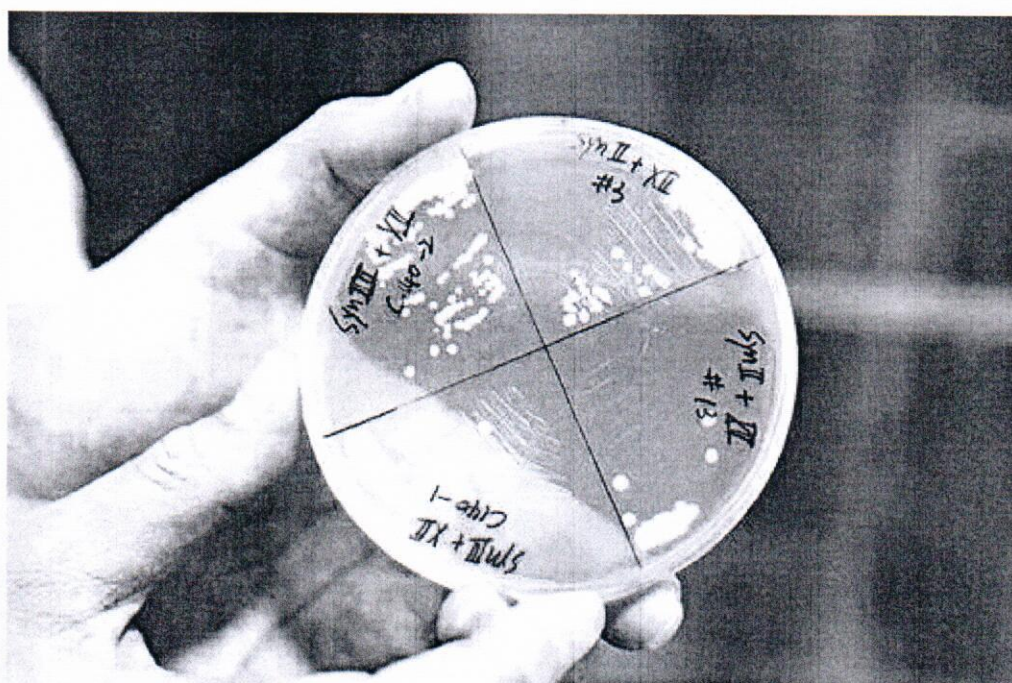
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2017 Top 10 Breaking News of China's Scientific Advances

On December 31, the 2017 Top 10 Breaking News of China's Scientific Advances were released in Beijing. The news were chosen by members of Chinese Academy of Sciences (CAS) and Chinese Academy of Engineering (CAE). This annual appraisal has been held for 24 times.

I. Chinese scientists synthesize complete active chromosomes with chemical compounds



Chinese scientists have synthesized four synthetic yeast chromosomes with chemical compounds, marking a great stride forward in "re-creating life". Researchers constructed synthetic active eukaryotic chromosomes with small molecule nucleotides. This was the first time to exactly match the synthetic genome with the designed sequence. The synthesized *Saccharomyces* genome has a complete life. The findings were published on *Science* on 10th, March 2017, making China the second country after the United States capable of designing and building eukaryotic genomes.