SEVEN DAYS The news in brief

ENVIRONMENT

Global threats

Environmental and health concerns topped the charts for threats the world will face in 2019. In a report released on 16 January, the World Economic Forum placed extreme weather events, such as heat waves and floods, at the top of its list of global risks this year. Civilization's failure to adapt to or curb the effects of climate change came in second. The World Health Organization (WHO) included the reluctance or refusal to vaccinate on its list of the top ten health threats. Measles is of particular concern, given that there was a 30% increase in cases globally between 2016 and 2017. Regions including the Americas and Europe saw the greatest resurgence of the disease in 2017, largely because of anti-vaccine sentiments, according to the WHO.

Ecology project

The US government contractor that manages the National **Ecological Observatory** Network (NEON) has reversed its decision to disband the project's scientific advisory board, following an outcry from researchers. Earlier this month, the contractor, Battelle of Columbus, Ohio, fired two long-time senior employees from the US\$434-million project, which is funded by the National Science Foundation and is building a network of 80 observation sites across the United States. NEON's chief scientist, Sharon Collinge of the University of Colorado Boulder, resigned in protest, and Battelle then disbanded the project's 20-member board. Board members sent Battelle chief scientist Michael Kuhlman a letter of protest on 14 January, saying that the move "breeds mistrust" with the scientific community. On 17 January, Battelle



Scientist behind gene-edited babies fired

An investigation by a provincial health ministry in China has found that He Jiankui, the scientist who claimed to have created the world's first genome-edited babies, broke national regulations against using gene editing for reproductive purposes, according to Chinese state media. An article on the Xinhua news website on 21 January also said that He (pictured) violated regulations forbidding the use of artificial reproduction techniques for people with HIV. Reports emerged last November that He had edited the genomes of

reversed course. In an e-mail seen by *Nature*, Kuhlman apologized for what he called an "erroneous assumption" that advisory bodies would turn over during a leadership change.

PUBLISHING

German deal

A consortium of German academic libraries that is seeking to make research papers more freely available has struck a deal with the publisher Wiley after almost two years of talks. The contract, signed on 15 January, combines the cost of accessing academic journals with some of the publishing charges that make researchers' articles free to read. Previously, libraries made individual deals with publishers. The Project DEAL consortium, which represents around 700 research institutions and libraries in Germany, has been trying to broker this type of deal, known as a read and publish agreement, with major publishers since the group's inception in 2015. The consortium is also engaged in negotiations with the

twin girls in an effort to make them resistant to HIV infection, provoking international outcry. Xinhua did not mention any punishable crimes, but it said that police might now get involved. He's university, the Southern University of Science and Technology in Shenzhen, fired him on 21 January. The Xinhua article was based on an interview with a member of the Guangdong province health ministry investigation team, which had been tasked to look into the He affair. He himself did not respond to *Nature*'s requests for comment.

> large publishers Elsevier and Springer Nature. (*Nature*'s news team is editorially independent of its publisher Springer Nature.)

POLITICS

Albania minister

Albania's education and science minister has been replaced in a government reshuffle amid weeks of mass student protests that brought the country's public universities to a halt. For years, students have been complaining about growing privatization of education, which, they say, has hiked up

confidentiality of equipment. Huawei did not respond to Nature's requests for comment. Oxford is currently in receipt of £692,000 (US\$890,000) from Huawei relating to two existing research projects, which will be unaffected. It said it will keep the funding ban under review.

LIGO in India

India will soon begin construction of a counterpart to the LIGO gravitationalwave observatory in the United States, after the construction site for the project received final approval. The observatory will cost 12.6 billion rupees (US\$177 million) and is scheduled for completion in 2024. This extra detector will help to expand the area of sky from which gravitational waves can be detected, and will triangulate data to boost sensitivity and detection confidence. A team of scientists in India has been collaborating formally on the LIGO project with US researchers since 2016. In 2015, LIGO's US detectors discovered gravitational waves — ripples in space-time, formed in this case by the collision of two black holes whose existence was predicted by Albert Einstein.

fees without adding benefits. The government has now said that it will meet many of the students' requests for cheaper and better-quality higher education, but it has

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stopped short of repealing a controversial 2015 law that protesters say is the source of many of the problems plaguing Albanian academia. The issues include a ban on starting new PhDs, lack of time and funding for research, and poor quality control. Lindita Nikolla, a mathematician who had been running the education ministry since 2013, offered her resignation before being replaced. However, universities have not resumed classes, and smaller-scale protests pushing for even more comprehensive reforms in academia continue.

India protests

On 16 January, police in New Delhi arrested about 800 research students who were demonstrating against low stipends. The students were among 2,000 protesting outside the Ministry of Human Resource Development in New Delhi, and others on campuses across India (pictured). PhD students who qualify for a government fellowship receive 25,000 rupees (US\$350) a month for 2 years and 28,000 rupees thereafter — which the protesters say is too little to



recent months surrounding

company, the university said.

headquartered in Shenzhen,

has been under mounting

scrutiny from international

governments over security

and involvement in nations'

concerns relating to its devices

telecommunications networks.

The Times newspaper reported

in December that UK defence

secretary Gavin Williamson

concerns" about Huawei's

involvement in upgrading

the country's mobile-phone

network. In November, the

Security Review Commission,

government's strong influence

created by the US Congress,

warned that the Chinese

over Chinese companies

means that it could force

them to modify products

to fail, facilitate corporate

espionage or compromise the

US-China Economic and

had voiced "very deep

UK partnerships" with the

Since late 2018, Huawei,

live on. The issue affects about 125,000 graduate students known as research scholars - at government-funded institutes, including the elite Indian Institutes of Technology. A stipend increase promised by the government in 2018 did not materialize, and students say they receive payments irregularly. Some who have qualified for the programme since June 2017 say they have not received payments. More than 2,000 scholars have undertaken a 'relay' hunger strike until the government approves an 80% hike in the stipends.

Huawei concerns

FUNDING

The University of Oxford, UK, will stop seeking research funding from the Chinese telecommunications company Huawei, in light of "public concerns raised in

MARCH OF THE PREPRINT

The number of preprints posted to bioRxiv is rising fast, as is the number of new authors who are using this mode of publication.

TREND WATCH

A growing number of biologists are posting their papers to a major preprint server before publishing in peer-reviewed journals, according to an analysis of the 37,648 preprints posted on bioRxiv in its first 5 years.Both uploads and downloads of preprints in the biological sciences are at a record high, according to the analysis - which was itself posted on bioRxiv on 13 January (R. J. Abdill and R. Blekhman Preprint at bioRxiv https://doi. org/10.1101/515643; 2019). The study found that there were, on average, 1,711 preprints posted each month in the first

11 months of 2018, and the total number posted last year was more than those in the previous four years combined. It also found that there were 1.1 million downloads last October alone. The number of authors who were posting a preprint for the first time went up from 3,873 in 2014 to 84,339 in 2018. Most of the downloaded preprints are in the fields of neuroscience and bioinformatics, with evolutionary biology, genetics, genomics and microbiology also featuring in the top ten bioRxiv fields. Around 42% of these preprints have also been published in peer-reviewed journals.

