

Paper 1

– science and tech

Quotes:

"Technological progress is like an axe in the hands of a pathological criminal" — Albert Einstein

"Technology... is a queer thing. It brings you great gifts with one hand, and it stabs you in the back with the other." — Charles Percy, former US senator

Issue 1: solutions or problems?

1. Diseases/health-related issues

- a. One of the most notable obesity scientific research studies was carried out by the Nutrition Science Institute (NuSI), a non-profit research institute dedicated to facilitating expensive, high-risk studies intended to illuminate the root causes of **obesity**. It was launched by well-known author **Gary Taubes in September 2012 and quickly raised more than \$40 million from big-name donors**. However, six years on, NuSI is nowhere near achieving its lofty ambitions and is nearly broke. PROB
- b. The discovery of genome editing has allowed changes to be made to DNA, allowing one to remove, add or replace DNA in order to improve our quality of life by reducing our risk of suffering from hereditary diseases. With the increase in knowledge about our genome, it has also led to the discovery of gene therapies, allowing scientists to prevent and treat diseases with a genomic base, such as cystic fibrosis and diabetes. In 2015, scientists in the United Kingdom were able to use gene therapy to treat a one-year old child's leukaemia, improving her quality of life.
- c. Scientists have long searched for a technique that effectively converts types AB, A, and B blood into type O, the "universal donor," and thanks to a gut bacteria, the search might be over. Researchers from the University of British Columbia reported that a newly-discovered enzyme from the human gut can convert types A and B blood into type O blood by much as 30 times more efficiently than previously studied enzymes. Clinical trials are needed to determine the safety and efficacy of the technique in humans, but researchers are optimistic that this novel approach could greatly reduce chronic blood-supply shortages.
- d. Mila Makovec → suffered from devastating disease (neurodegenerative condition called Batten disease) as a result of unique genetic mutation and her case made headlines in the New England Journal of Medicine in Oct 2019, prompting **Boston Children's Hospital scientist Timothy Yu** to create the drug 'milasen' (named after her) in only 10 months.

2. Nuclear energy

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Xiang Xie



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