

# 當藝術遇上 CRISPR 基因改造：透過“CRISPR 基因藝術” 探討基因改造對人性、永續、及未來基因科技發展的影響

## Investigating Humanity, Sustainability, and the Future Impact on Gene-editing Technology through “CRISPR-enabled Art”

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Keywords: CRISPR, Gene-editing Technology, Sustainability, Humanity,  
Technology-enabled Art.

Over thousands of years, farmers converted the wild rice plant into a staple crop. Today, researchers are using CRISPR to change genes to optimize grain yield. However, rice is more than food. In ancient China, it was used to make paper.

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Sheng-Ying Pao (TW)

### CRISPR and the Art of Paper

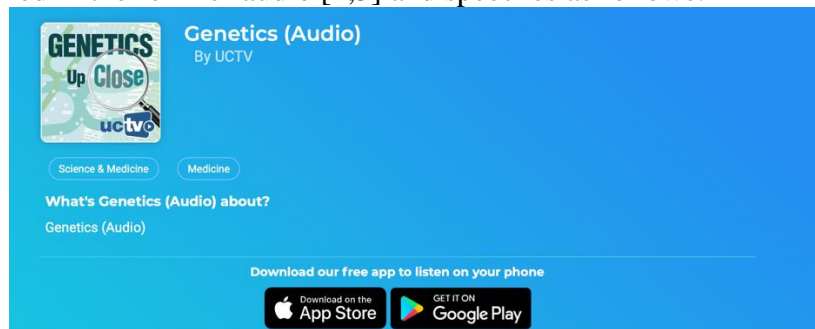


CRISPR and the Art of Paper/Sheng-Ying Pao (TW), Credits: Sheng-Ying Pao

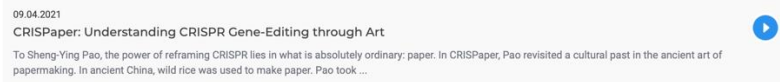
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This research focuses on developing interdisciplinary research and creating new artworks made of CRISPR-altered organisms. To date, the discussion around CRISPR (clustered regularly interspaced short palindromic repeats) has heavily focused on its exceptional potential to cure challenging diseases. However, the scientists worldwide who develop this technology have been encountering a much more nuanced set of investigative and social concerns. The collaborative research proposed here aims to focus on the investigative and social concerns through the creativity, aesthetics, and cross-disciplinary possibility of art integrated with science. This project has been conducted in the form of a series of artwork, which has been invited to exhibit at the 40<sup>th</sup> anniversary of Ars Electronica, one of the most renown interdisciplinary exhibition and festival for art, technology and society [1].

This project is under the collaboration with UC Berkeley. The results have been recently published in the form of audio [2,3] and speeches as follows:



Genetics (Audio) episodes:



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Health and Medicine (Audio) ✓ Claim

## CRISPaper: Understanding CRISPR Gene-Editing through Art

4 de Septiembre de 2021



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Art Forum at ART TAIPEI & Taiwan Art Gallery Association and keynote speech at the Annual American Innovation Center (AIC) Innovation Forum, hosted and invited by AIT

### References

- [1] Strange Temporalities, Ars Electronica, Sep 2018, <https://ars.electronica.art/outofthebox/de/strange-temporalities/>
- [2] CRISPaper: Understanding CRISPR Gene-Editing through Art, Sep 2021, Genetics Up Close, UCTV <https://podcast.app/genetics-audio-p377181/>
- [3] CRISPaper: Understanding CRISPR Gene-Editing through Art, Sep 2021, Listen Notes [https://www.listennotes.com/es/podcasts/health-and/crispaper-understanding-T26\\_jWLDqQS/](https://www.listennotes.com/es/podcasts/health-and/crispaper-understanding-T26_jWLDqQS/)