



善用生醫影音資源-從理論到實作

● HSTalks生醫講座 | JoVE視覺化實驗應用實務

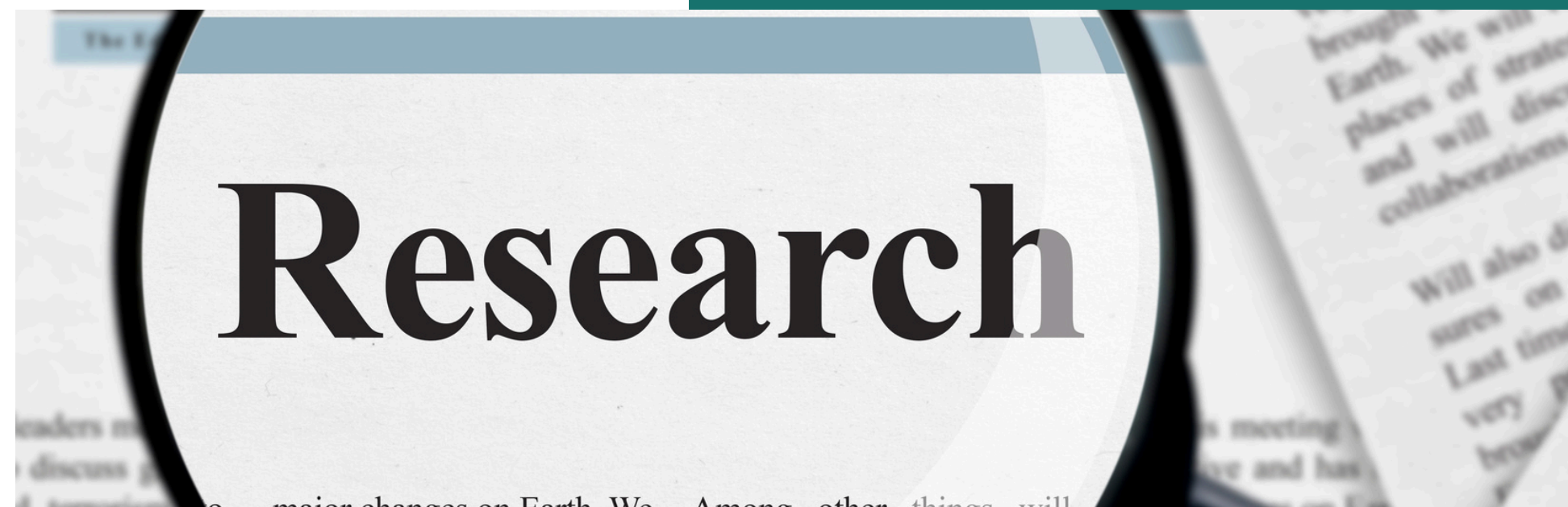
September 2025

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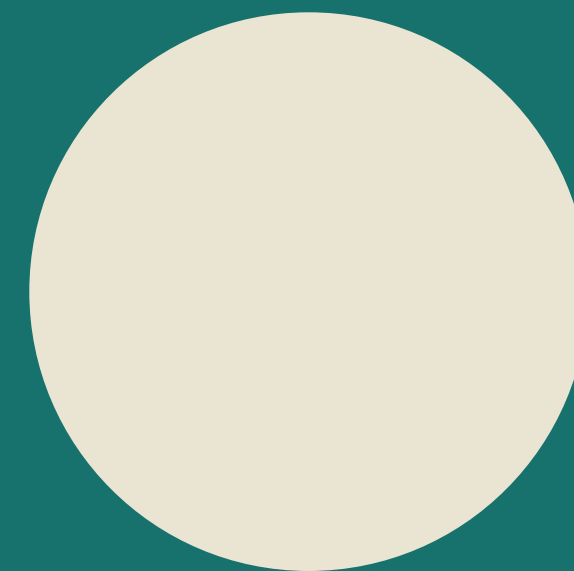
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為何需要影音資源

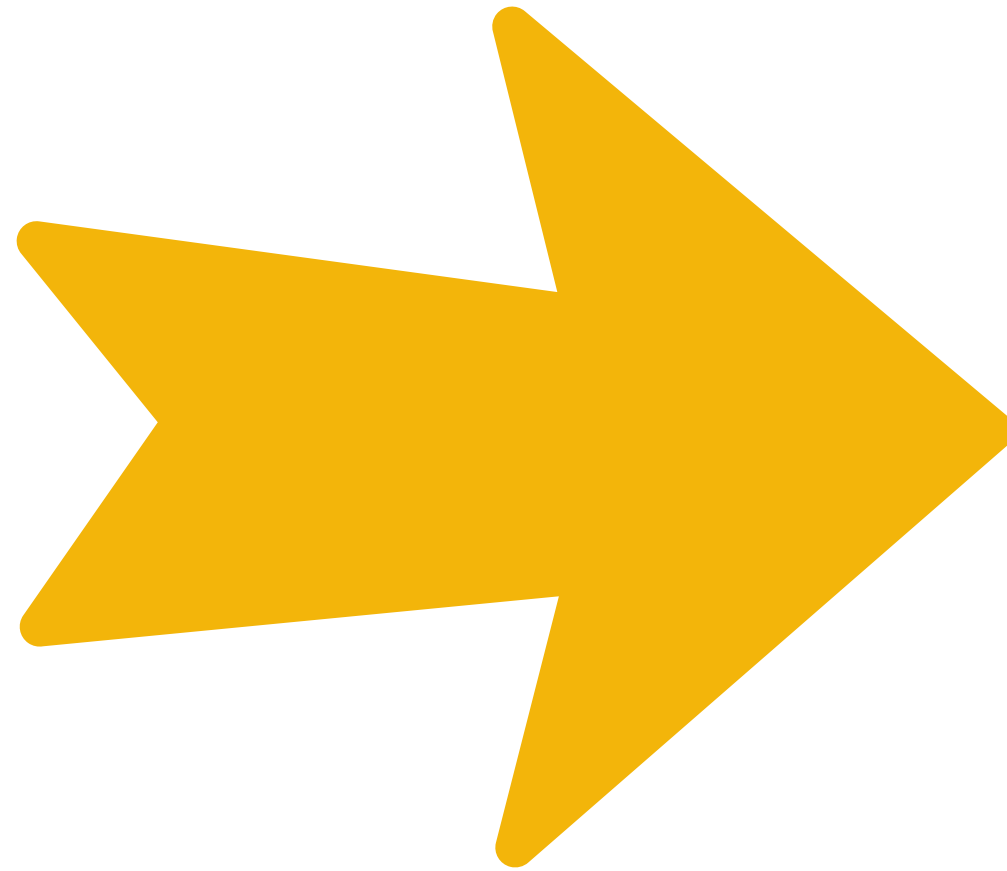
從文字到視覺化學習的轉變

傳統學習 VS 新趨勢



傳統學習

文字為主



新趨勢

視覺化、影音化



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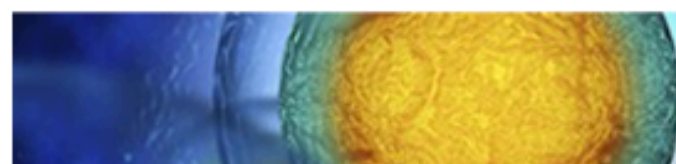
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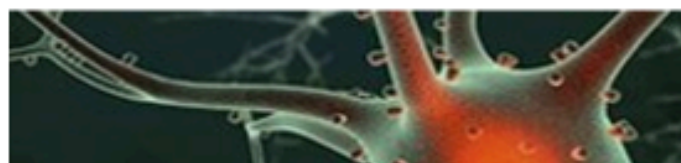
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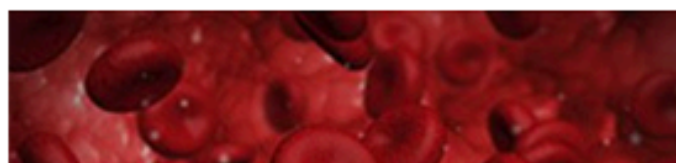
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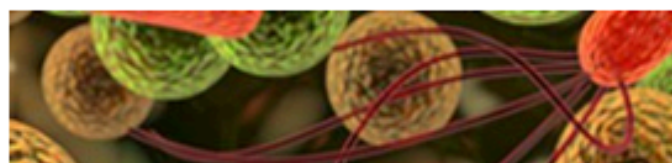
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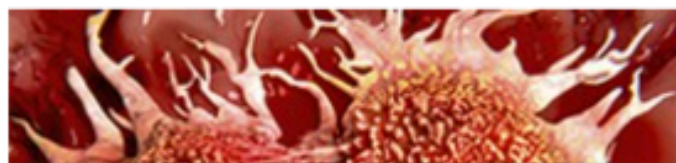
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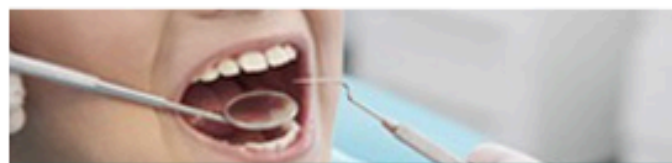
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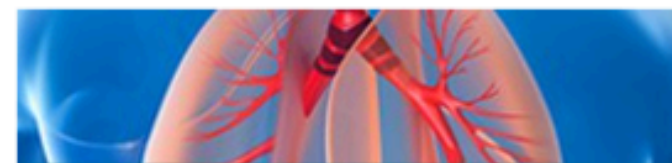
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Series



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篩選功能

1. Overview of nonclinical safety assessment

By Dr. Claudette L. Fuller – Merck Research Laboratories, USA

Published September 2020

Series: Non-Clinical Testing for Toxicity of Pharmaceuticals

...development programs - Non-oncology vs. oncology **therapeutic areas**... Dr. Fuller serves as a **Therapeutic Area** Leader for Infectious Disease at Merck Research... opinion to all stages of drug discovery and development programs at Merck. As **Therapeutic Area** Leader, she...

▶ Play ≡ More Details

Showing results 1-10 of 527

Overview of Nonclinical Safety Assessment



Dr. Claudette L. Fuller, PhD
Therapeutic Area Leader
Safety Assessment
Merck Research Lab

14 mins



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MATCH CONTENT

2. Preclinical translation of mesenchymal stem cell therapies

Preclinical Translation

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Brief biography

- Lisa Plitnick, PhD.
- Employee of Merck & Co., Inc. for 19 years
- Therapeutic Area Leader for Vaccines in Nonclinical Safety
- Contact: lisa.plitnick@merck.com

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2. [Brief biography](#)
3. Outline
4. The value of vaccines
5. A brief history of pathogens and vaccines
6. Smallpox and the beginning of vaccines
7. How vaccines work: the response to vaccination
8. How vaccines work: the response to a pathogen
9. Herd immunity
10. Common types of vaccines
11. Manufacturing vaccines
12. Testing conducted prior to vaccine release
13. Importance of vaccination
14. Vaccines and autism: the MMR vaccine
15. Importance of vaccination: measles and mumps

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Contact: lisa.plitnick@merck.com



00:12 / 31:58



1x



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Overview

Transcript

Quiz

Transcript

Choose Language: English

0:00 Hello, this presentation will provide an overview of the approaches for non-clinical vaccine development.

0:08 My name is Lisa Plitnick and I work for Merck. I've been at Merck for 19 years and I am the Therapeutic Area Leader for Vaccines in the Department of Nonclinical Safety. I've also included here my email address, in case you have follow-up questions for the presentation.




0:25 I'd like to start with an overview of vaccines and vaccination, followed by a review of the current regulatory guidelines for non-clinical evaluation of vaccines. I'll discuss considerations in the design of non-clinical toxicity studies, and go over some routine study designs. I'll then provide examples of the testing strategies for a typical prophylactic vaccine, and a prophylactic vaccine with a novel adjuvant.


0:50 To put into perspective the value of vaccines and vaccination, vaccination is on a par with clean drinking water in terms of number of lives saved due to disease prevention. Two to three million deaths are prevented, 750,000 children are saved from disability, low and middle-income countries


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完整逐字稿


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 Subjects  


 Slides

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簡報下載




Brief biography



- ◆ Lisa Plitnick, PhD.
- ◆ Employee of Merck & Co., Inc. for 19 years
- ◆ Therapeutic Area Leader for Vaccines in Nonclinical Safety
- I've been at Merck for 19 years and I am
- ◆ Contact: lisa.plitnick@merck.com





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Therapeutic Area Leader for Vaccines

I've been at Merck for 19 years and I am

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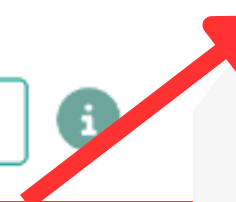
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- 29. Routine toxicity studies for vaccines
- 30. Exploratory immunogenicity study (1)
- 31. GLP repeat-dose toxicity studies (1)
- 32. IND-enabling GLP repeat-dose toxicity studies
- 33. Developmental and Reproductive Toxicity (DART) study (1)
- 34. Additional toxicity studies that may be required
- 35. Expected findings in nonclinical toxicity studies
- 36. Example 1: Adult prophylactic vaccine
- 37. Exploratory immunogenicity study (2)
- 38. GLP repeat-dose toxicity study (2)

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Overview

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Approaches to nonclinical vaccine development



Dr. Lisa Plitnick – Merck & Co., Inc., USA

Published on June 29, 2021 • 32 min

ACCREDITATION



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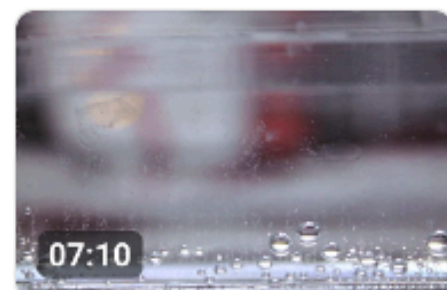
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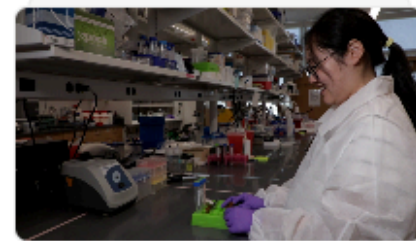
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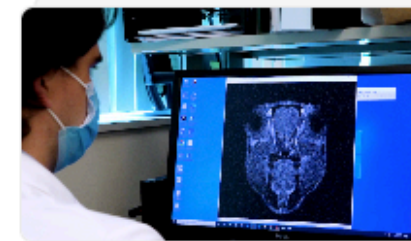
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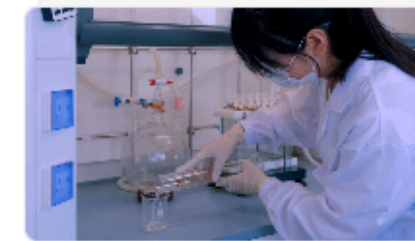
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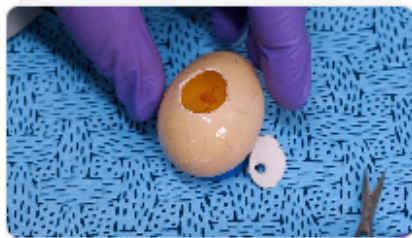
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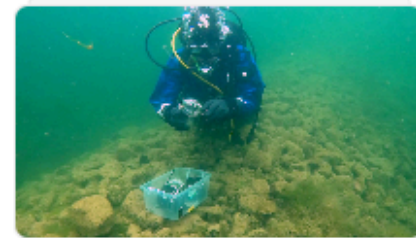
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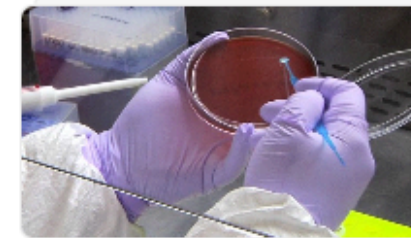
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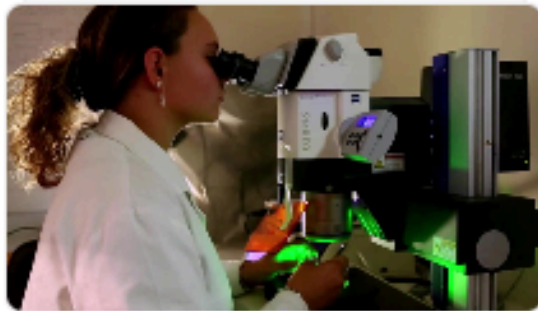
以研究為主的期刊，目前收錄13種主題

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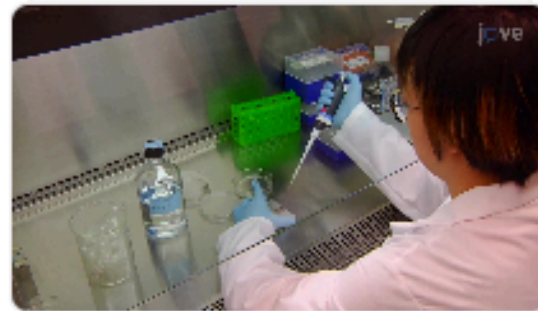
Encyclopedia of Experiments

Encyclopedia of Experiments

Online video encyclopedias of advanced research experiments for scientists in academia and biotech



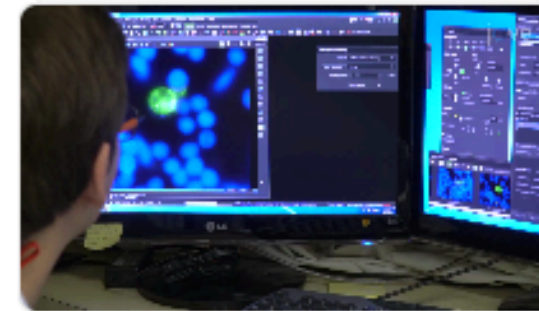
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Microbiology

以實驗技術百科為主的系列，收錄單一領域的完整實驗技術。

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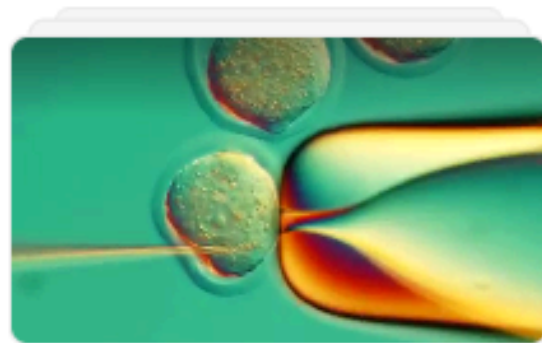
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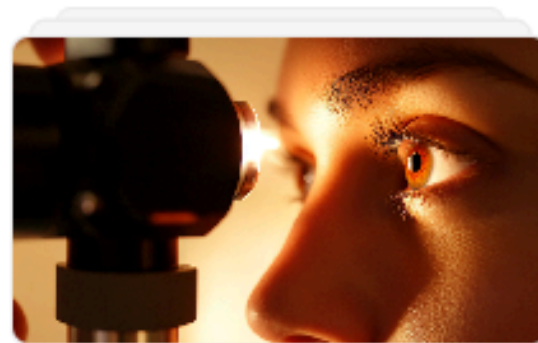
以影片呈現的科學教育，目前收錄多種主題，涵蓋從基礎到進階的科學概念。



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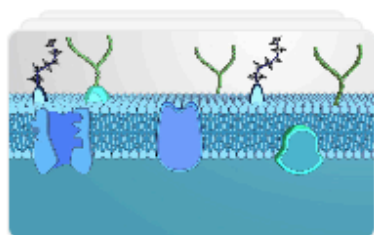
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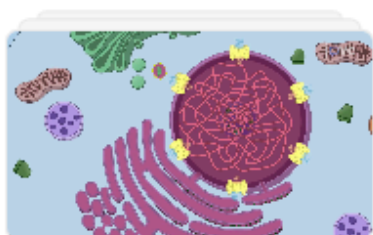
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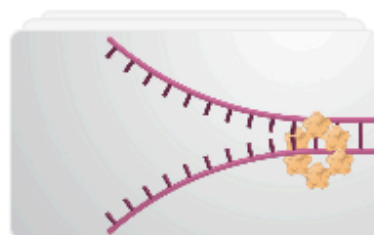
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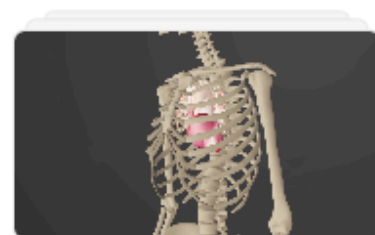
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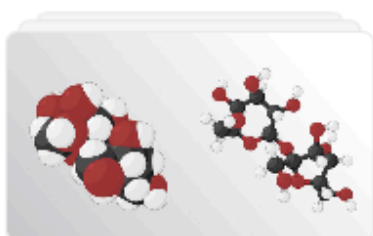
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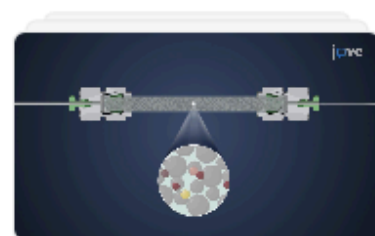
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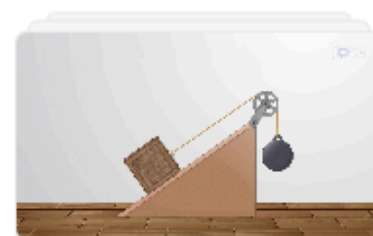
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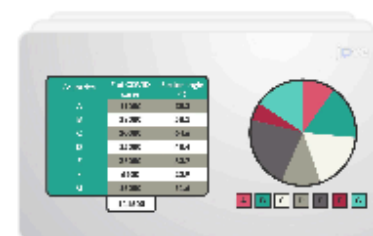
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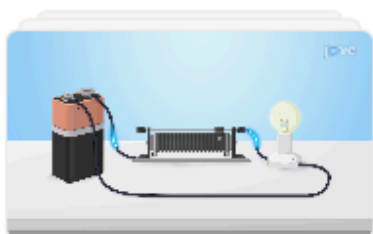
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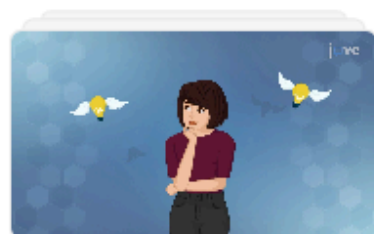
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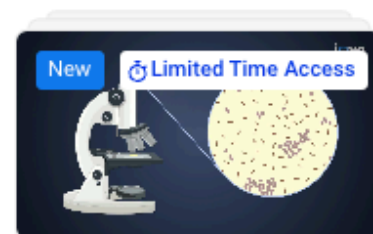
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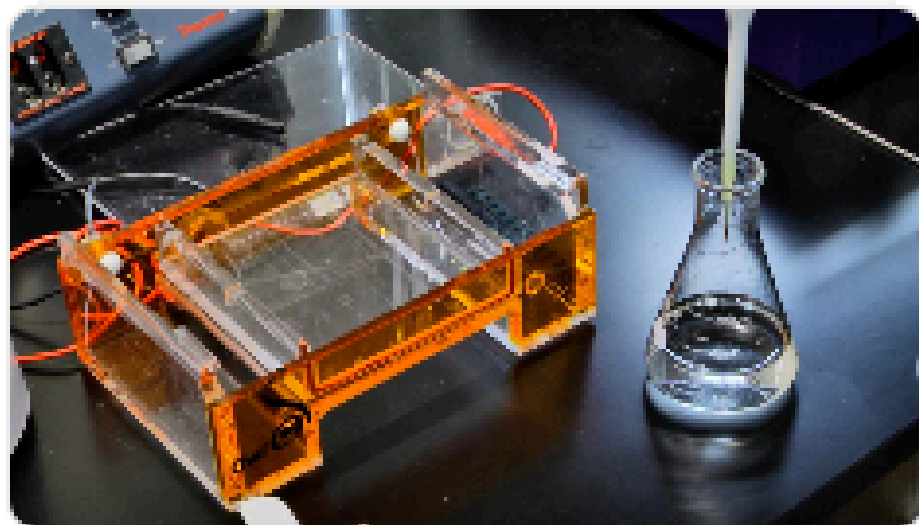
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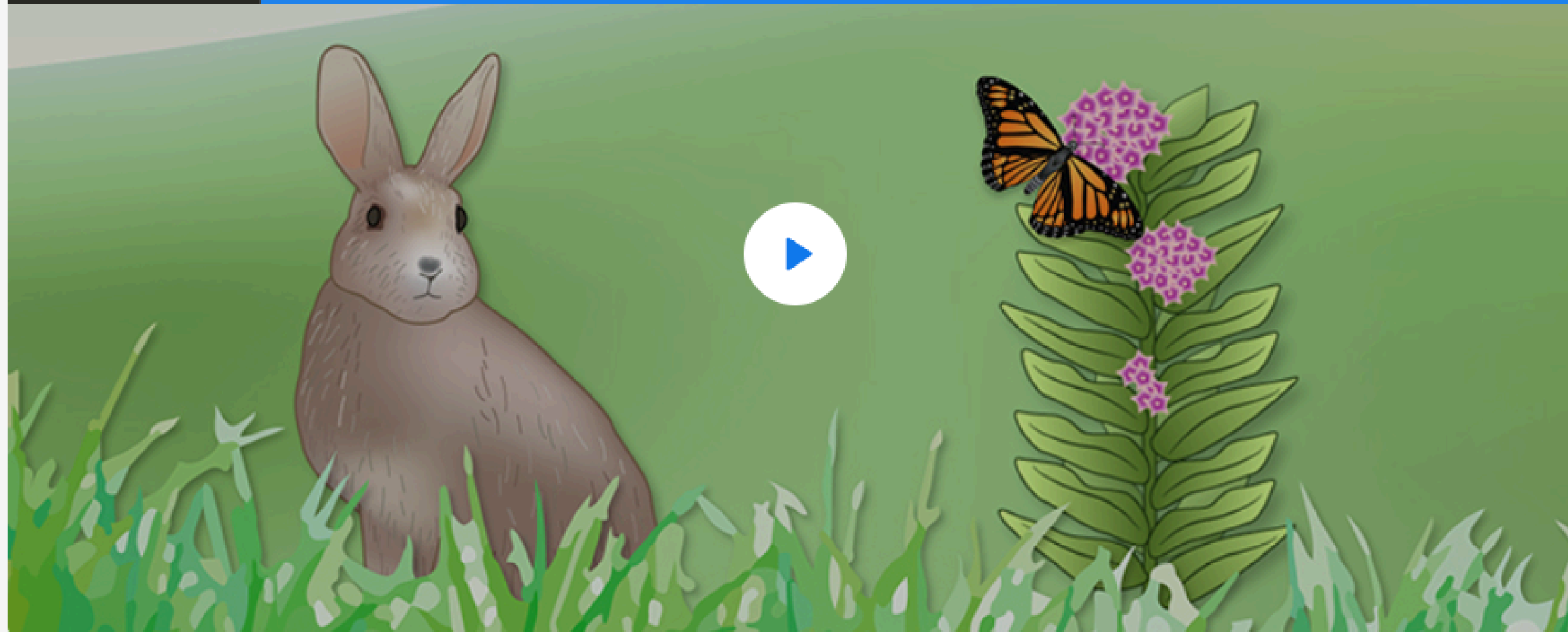
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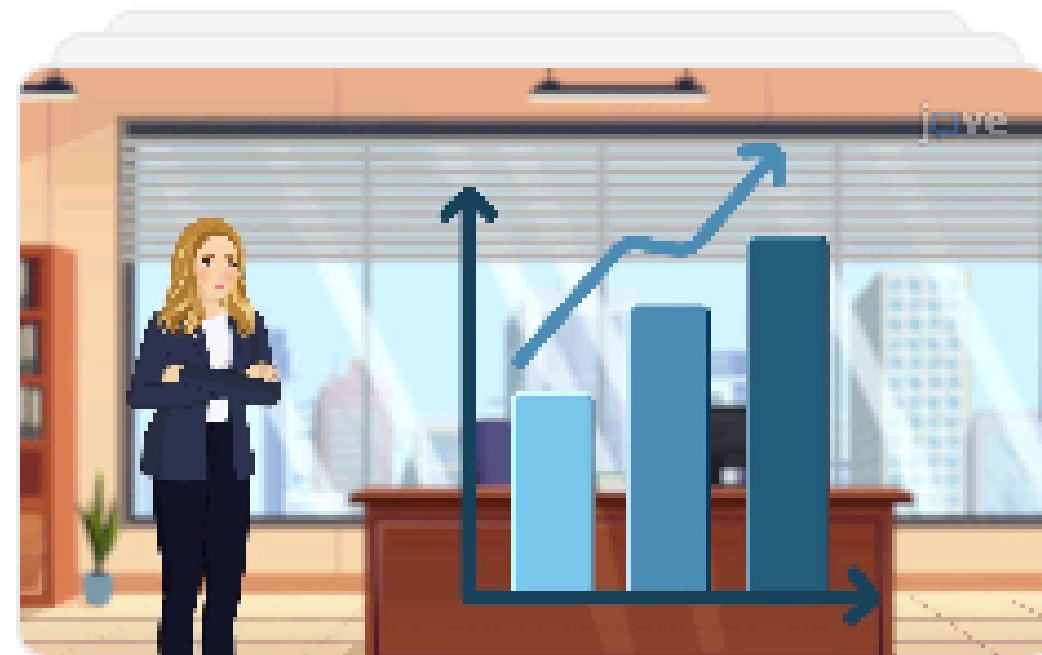
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All

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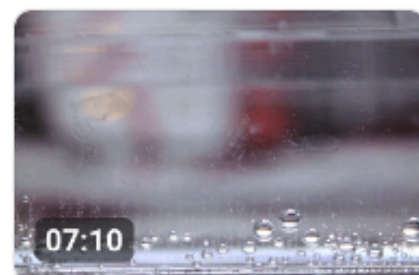
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Hanxi Tang^{1,2}, Jessica Miller¹, Bin Z. He¹

¹Department of Biology, University of Iowa, ²Department of Chemical and Systems Biology, Stanford...

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Nupura Prabhune^{1,2}, Yilin Du^{1,3}, Afeefa Zainab⁴, Satoru Ebihara³, Shinji Takeoka², Shinpei Kawaoka^{1,5}, Alexi...

¹Department of Integrative Bioanalytics, Institute of Development, Aging and Cancer, Tohoku University,...

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Marielle M. Berto¹, Abolfazl Hajihassani², Daniel Carrillo¹

¹Tropical Research and Education Center, University of Florida IFAS, ²Fort Lauderdale Research and...

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Jason D. Pizzini¹, Firas S. Midani^{1,2}, Robert A. Britton^{1,2}

¹Department of Molecular Virology and Microbiology, Baylor College of Medicine, ²Alkek Center for...

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
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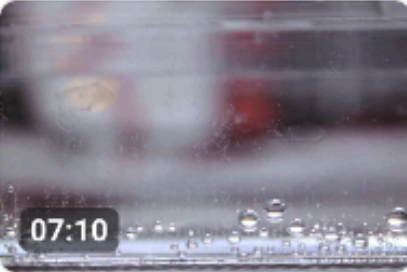
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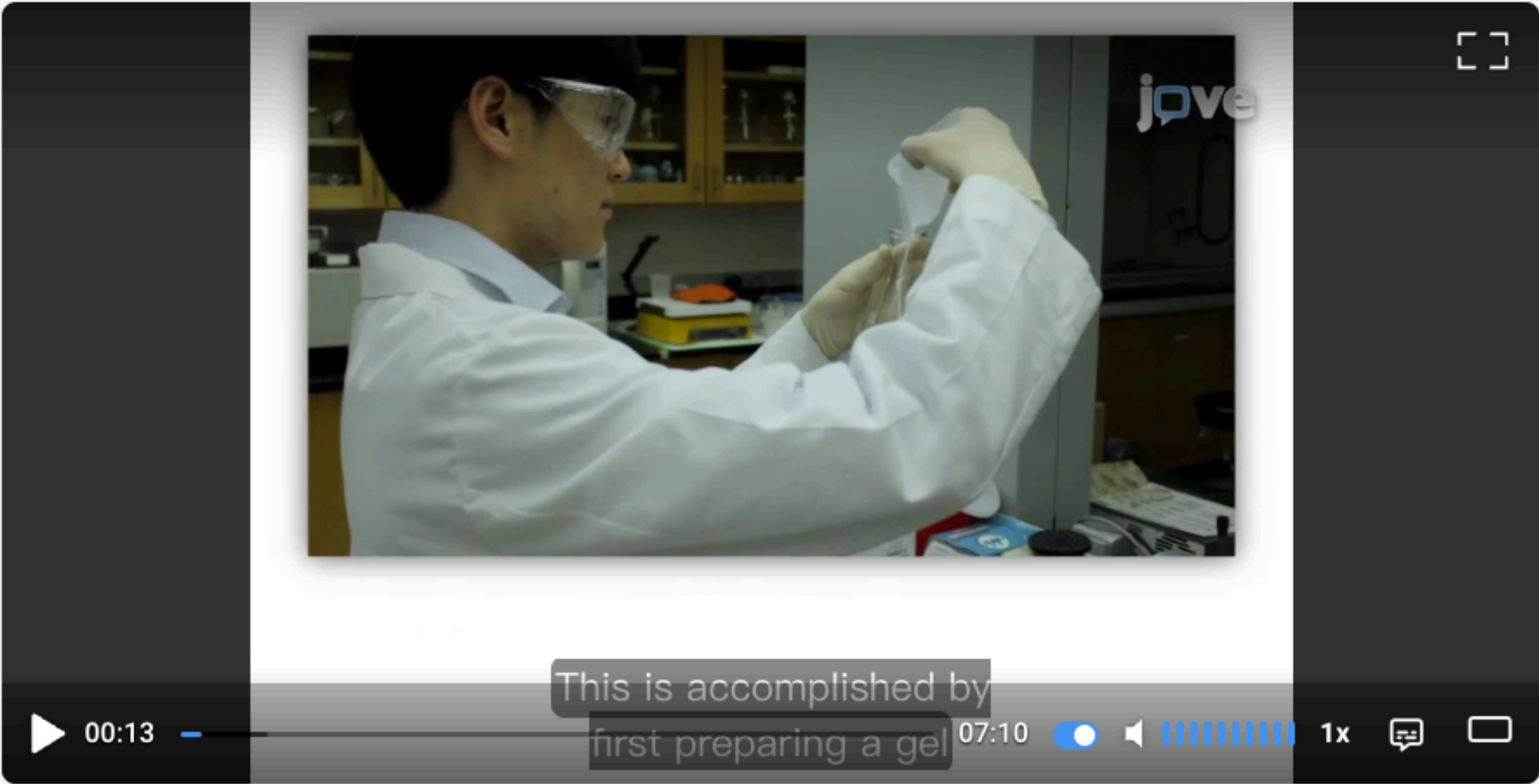
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Pei Yun Lee¹, John Costumbrado¹, Chih-Yuan Hsu¹, Yong Hoon Kim¹
¹Department of Molecular, Cell, and Developmental Biology, University of California Los Angeles

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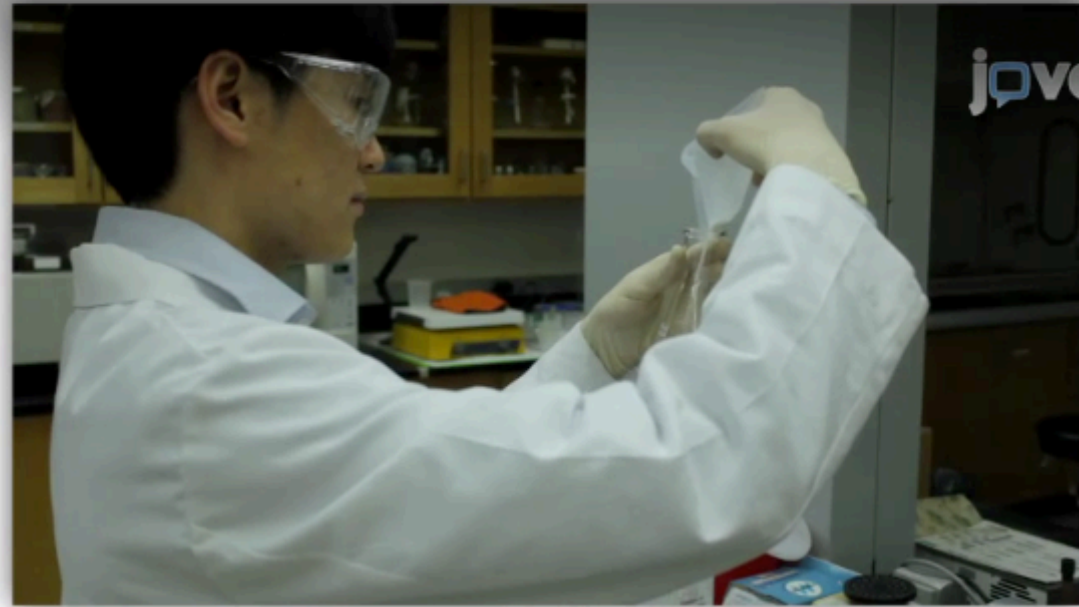
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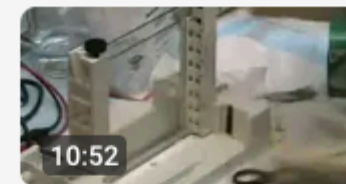
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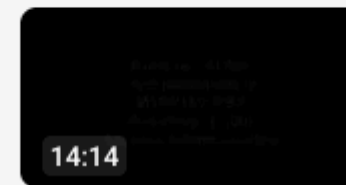
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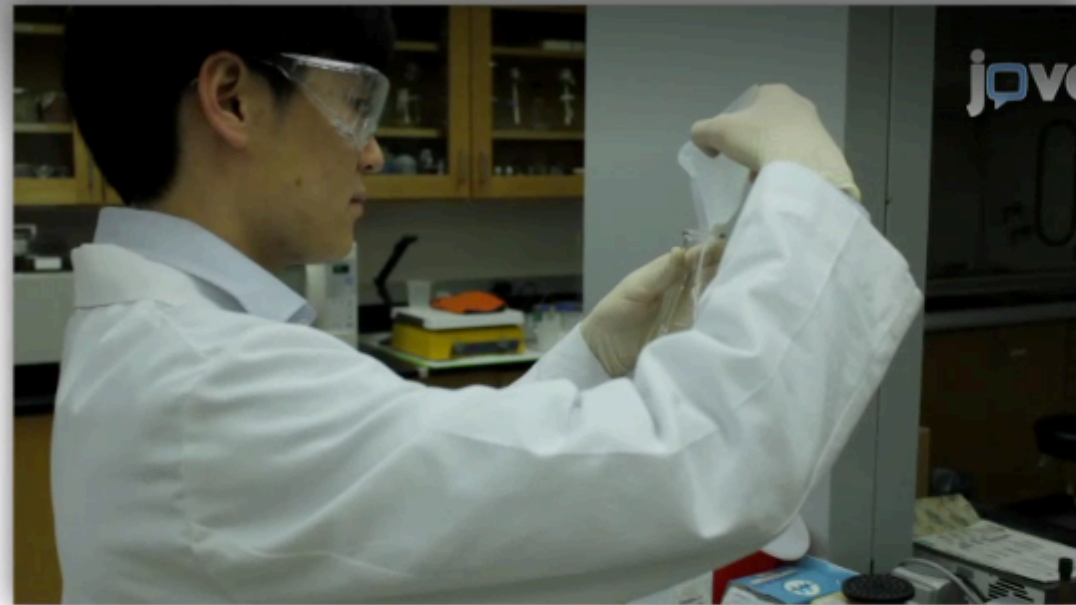


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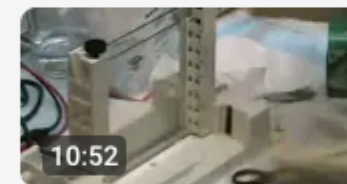
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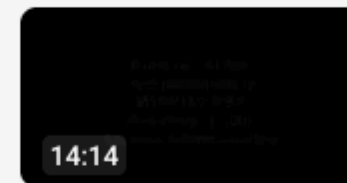
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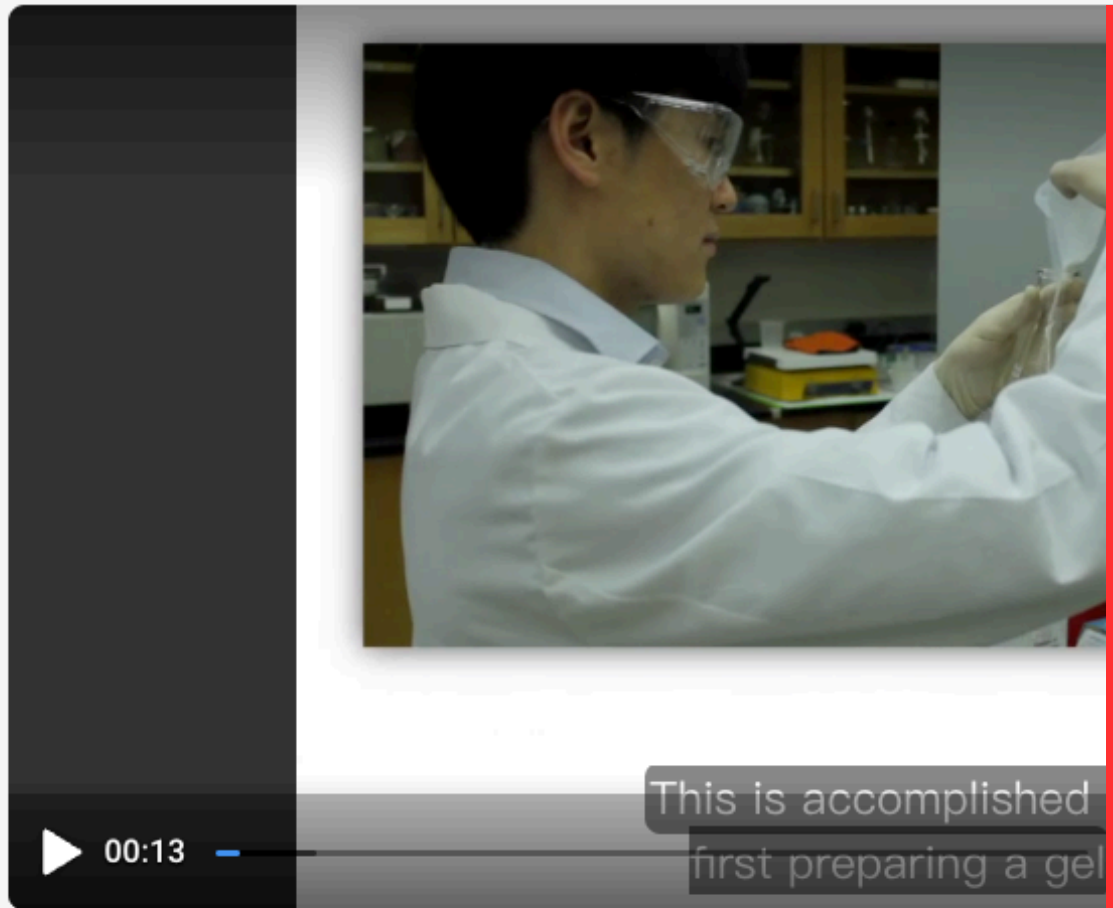
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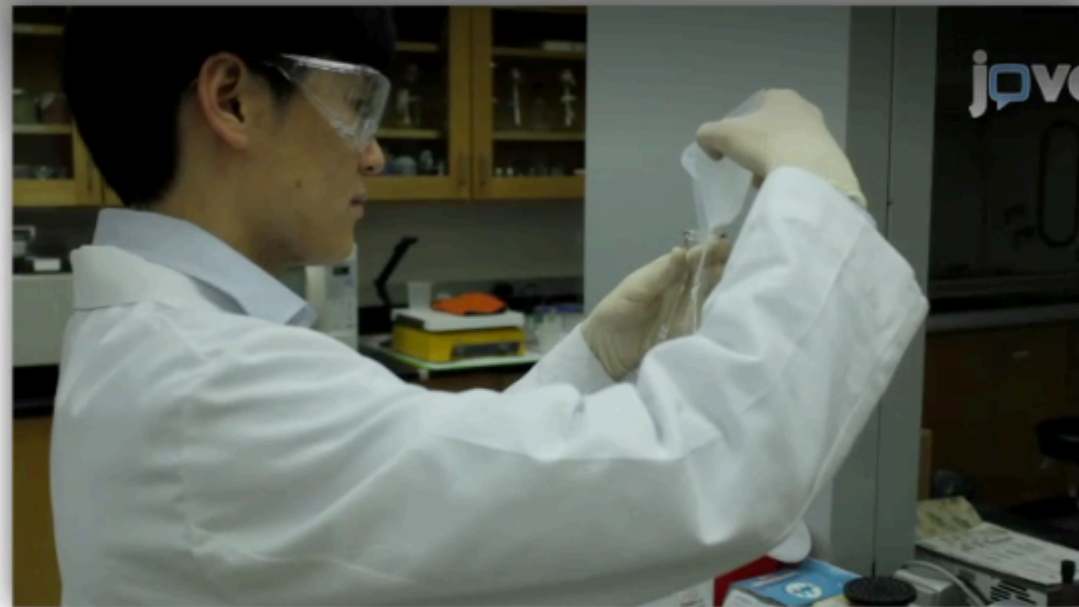
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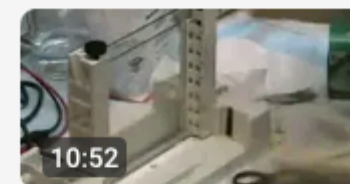
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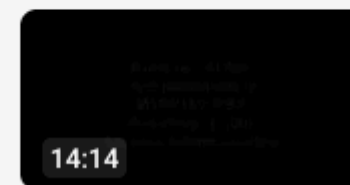
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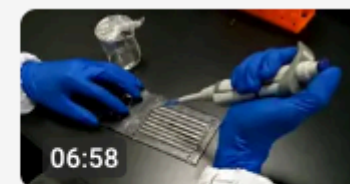
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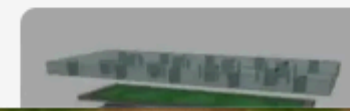
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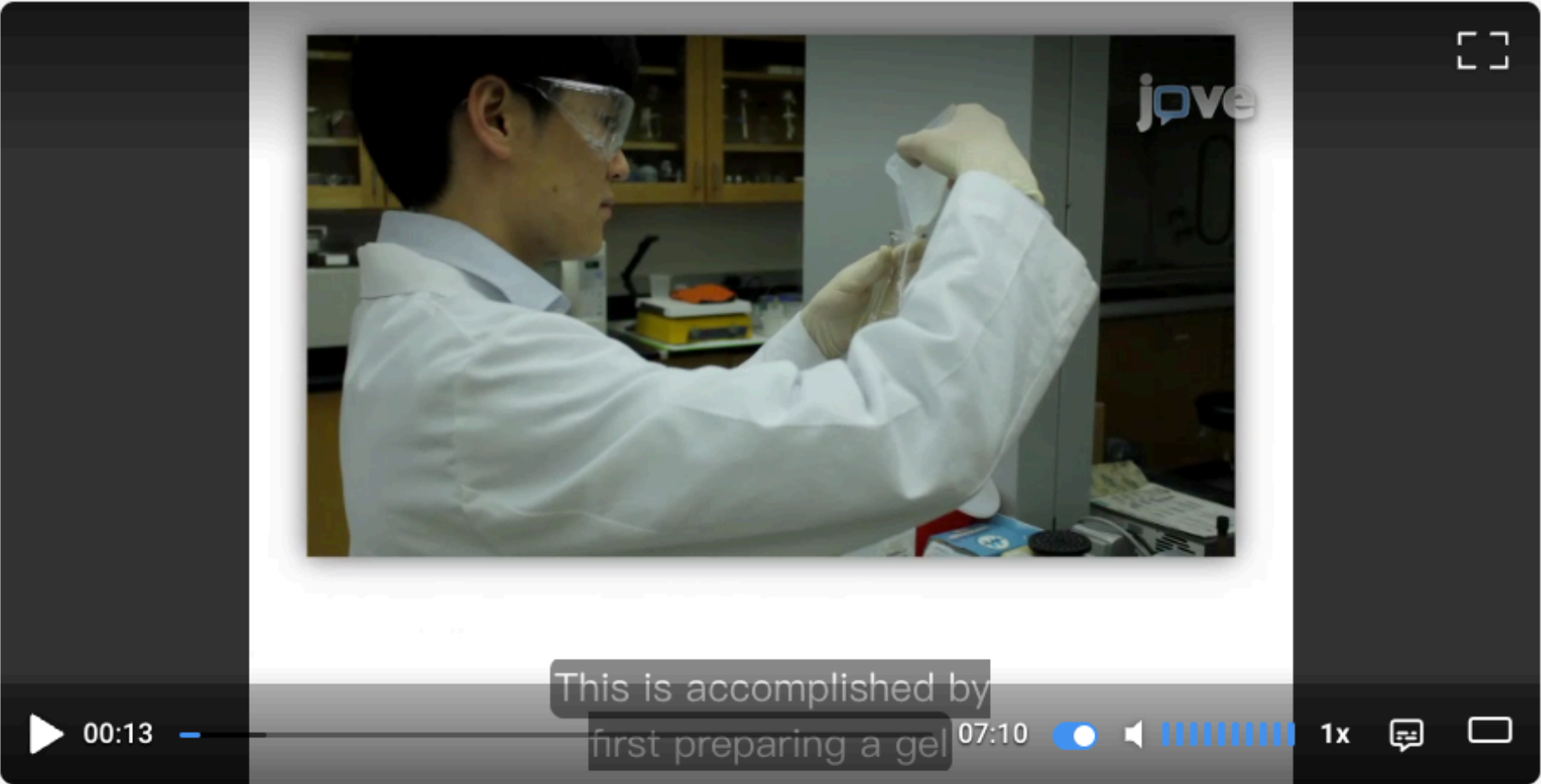
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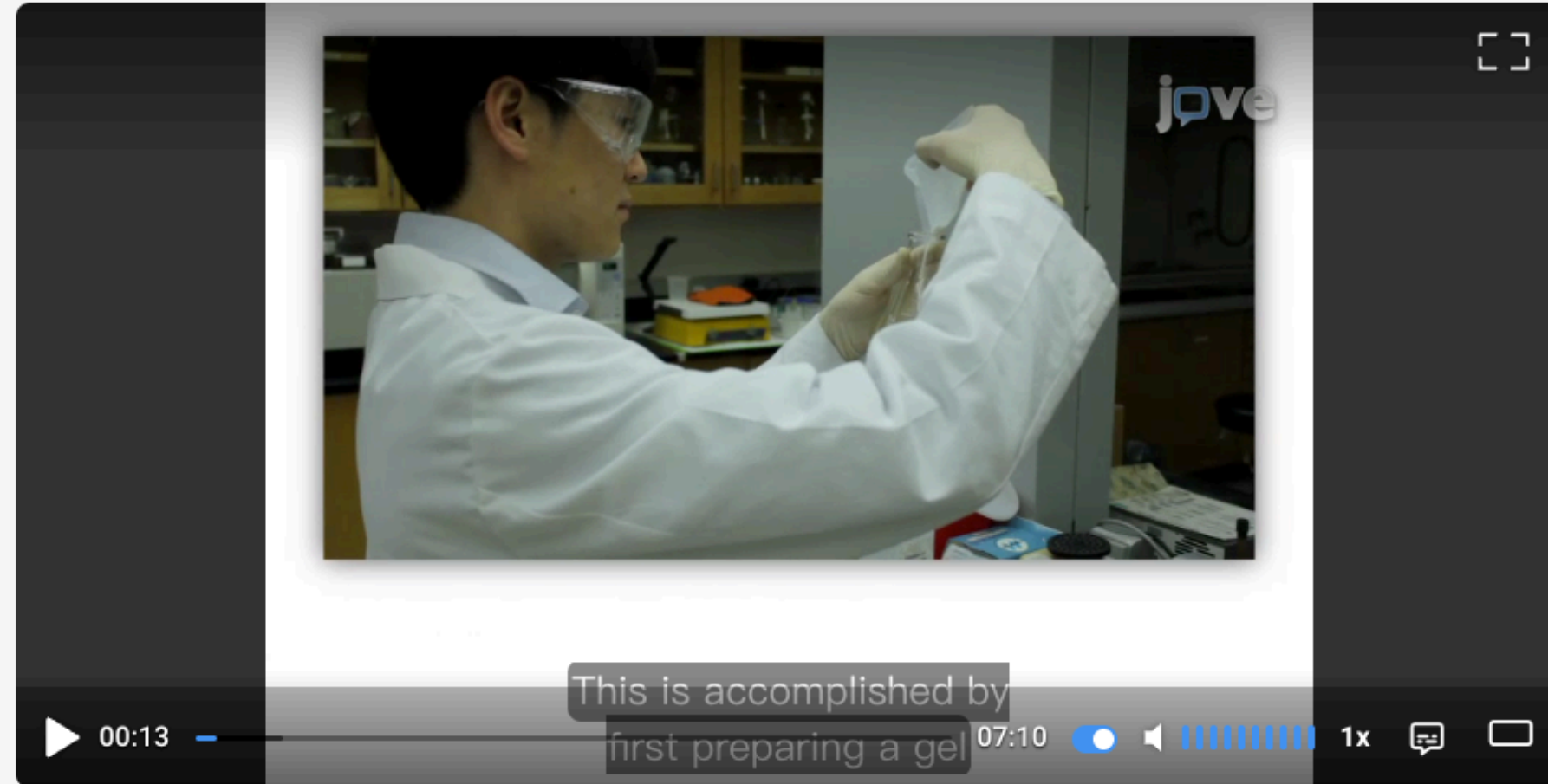
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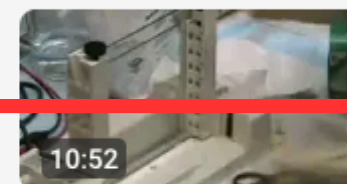
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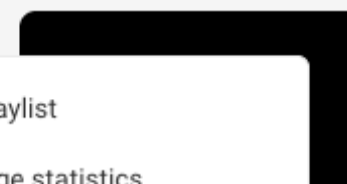
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