



Accelerate your science research and education.

Introduction:



Dr Maaike Pols, Scientific Advisor

Maaike obtained a PhD in Cell Biology from Utrecht University where she was involved in teaching and research. She did a post doc at the University of Queensland and then moved to London as an editor for F1000Research before joining JoVE in 2017 maaike.pols@jove.com

- What is JoVE?
- What is JoVE?
- Create a free JoVE account for remote access
- JoVE Education products
 - Creating Playlists
 - Syllabus Mapping service
 - Embedding JoVE videos in LMS
- Q&A

jove

creates scientific videos that make Teaching, Learning, and Practicing Science more efficient, effective, and engaging.



CEO Moshe Pritsker, Ph.D. in 2006 at Princeton University

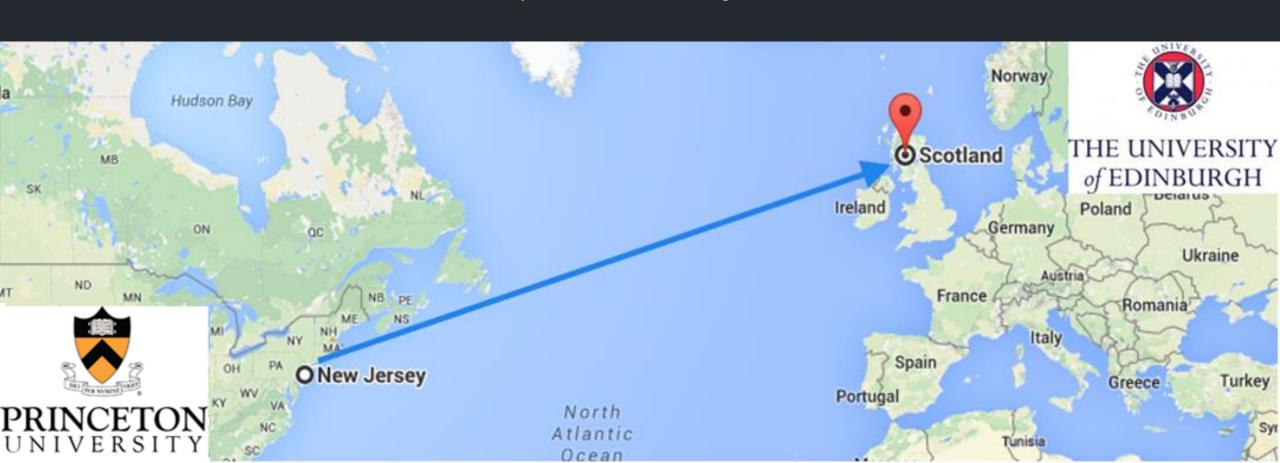
As a young researcher, Moshe was unable to complete a crucial experiment using text protocols.



How Much Did It Cost To Reproduce An Experiment?

2 months of travel and reagents

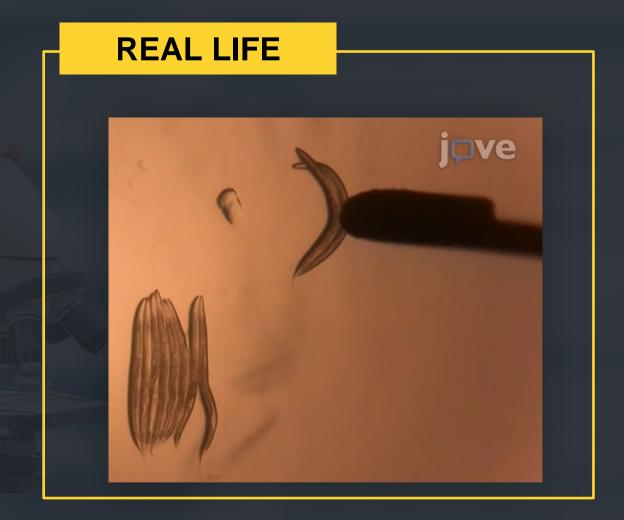
\$10,000 for **1 experiment**



Visualizing > Reading

TEXT ARTICLE

"Once sodium azide has evaporated, line up animals to desired imaging setup. Move the animals side by side with anterior and posterior sides in the same orientation for all animals. Image animals immediately."



Video Library

- 13,000+ videos in a growing library
- 1,200+ new videos published per year
- 1,000+ subscribers
- 8+ million users worldwide

Video Features

- 24/7 access worldwide
- 10+ languages in translations and voice-overs
- 10,000+ downloadable protocols



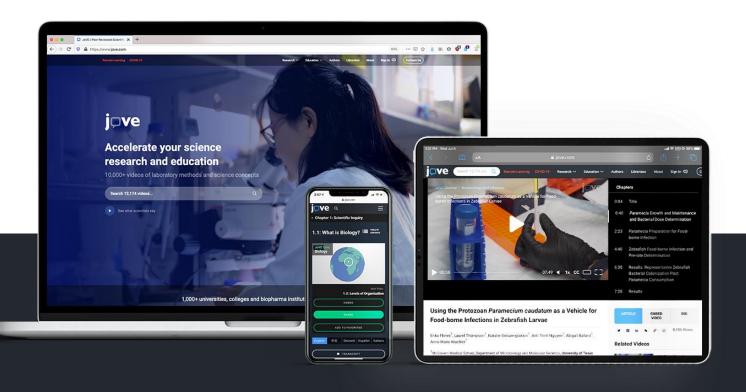
Accessing JoVE Videos

On Campus:

IP Recognition; videos within subscription play instantly

Off Campus:

- Domain authentication
- OpenAthens and Shibboleth
- Authenticated remote access with EZProxy
- Embedded in your LMS (learning management system)



Accessing JoVE Videos Through a JoVE Account

On and Off Campus:

Create a free JoVE account with an institutional email address to:

Check your JoVE access

Watch videos even when off campus

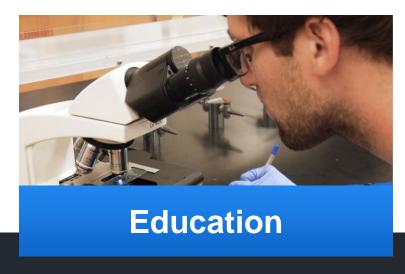
Create embed codes to share videos with off-campus colleagues

Sign In 🖒 Librarians **Contact Us** Education ~ Authors About Sign In **Create Your Account** Enter your details below All your science content in one place Institutional Email Address Institutional Email Password Forgot Password? Enter Captcha text here: Or Create an Account Sign In Continue with Shibboleth/OpenAthens Continue with Google I Have a Trial Code

Create a playlist of your favorite videos

WHAT IS JoVE?

JoVE creates scientific videos for five unique resources:







JoVE Core

An animated text book. Foundational concepts are explained through highimpact animations and real-life experimentation.

JoVE Lab Manual

Videos for both instructors and students in introductory biology and chemistry lab courses.

JoVE Science Education

Teaching scientific fundamentals through simple easy-to-understand video demonstrations.

JoVE Video Journal

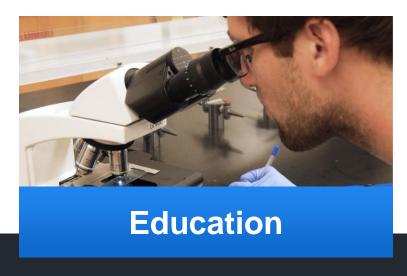
Publishes experimental techniques in visual format with detailed text protocols to increase scientific reproducibility and productivity.

JoVE Encyclopedia

Collections of experimental techniques for specific model organisms

Your JoVE Access

JoVE creates scientific videos for five unique resources:







JoVE Core

Biology, Chemistry, Social Psychology, Molecular Biology

JoVE Lab Manual

Biology and Chemistry.

JoVE Science Education

Basic- and Advanced Biology, Chemistry, Physics, Psychology, Environmental Sciences, Engineering and Clinical Skills

JoVE Video Journal (unsubscribed)

Biology, Bioengineering, Engineering, Chemistry, Biochemistry, Cancer Research, Developmental Biology, Environment, Behavior, Genetics, Immunology&Infection, Medicine and Neuroscience

JoVE Encyclopedia

Collections of experimental techniques for specific model organisms and disease models

JoVE Core

Video textbooks that can serve as effective primary or supplementary teaching resources.

JoVE Core: Biology

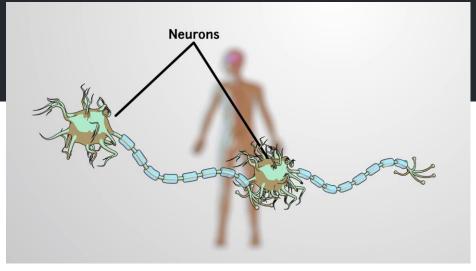
[Available in English, Chinese, German, Spanish, Italian, French, Russian, Dutch and Korean] JoVE Core: Chemistry

JoVE Core:

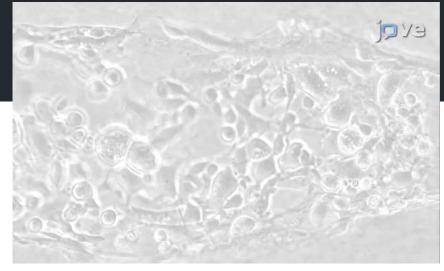
Molecular Biology

JoVE Core:
Social Psychology

Bring key introductory concepts to life through ...



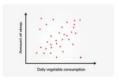
High-impact Animations



Scientist-in-Action Videos of Experiments
Conducted In Laboratory Settings

JoVE Core Overview





Chapter 1 Research Methods



Chapter 4 Understanding and Influencing Others



Chapter 7 Stereotypes, Prejudice, and Discrimination



Chapter 2
The Social Self



Chapter 5
Attitudes and Persuasion



Chapter 8 Helping and Hurting



Chapter 3
Social Judgment and Decision-Making



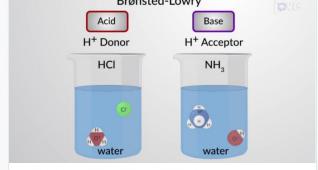
Chapter 6
Close Relationships



Chapter 9
Group Dynamics

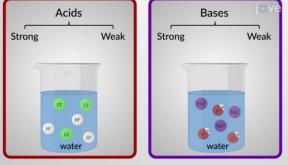
JoVE Core Chapter structure





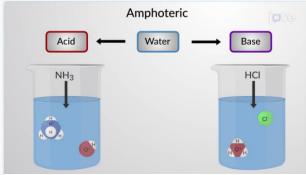
Bronsted-Lowry Acids and Bases

The acid-base reaction class has been studied for quite some time. In 1680, Robert Boyle reported traits of acid solutions that included their...



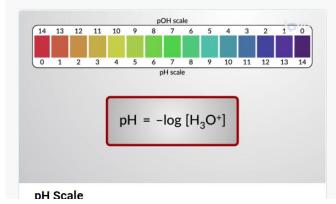
Acid/Base Strengths and Dissociation Constants

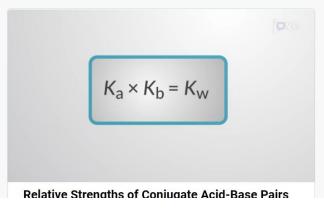
The relative strength of an acid or base is the extent to which it ionizes when dissolved in water. If the ionization reaction is essentially...

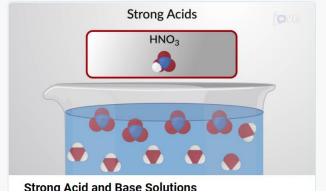


Water: A Bronsted-Lowry Acid and Base

The reaction between a Brønsted-Lowry acid and water is called acid ionization. For example, when hydrogen fluoride dissolves in water and...

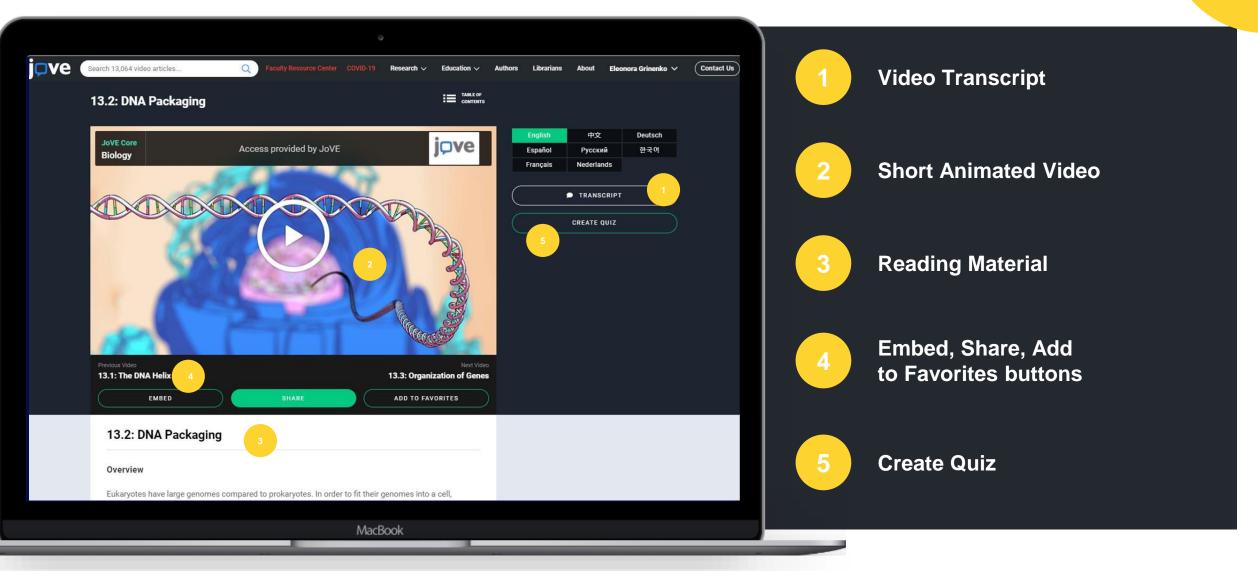






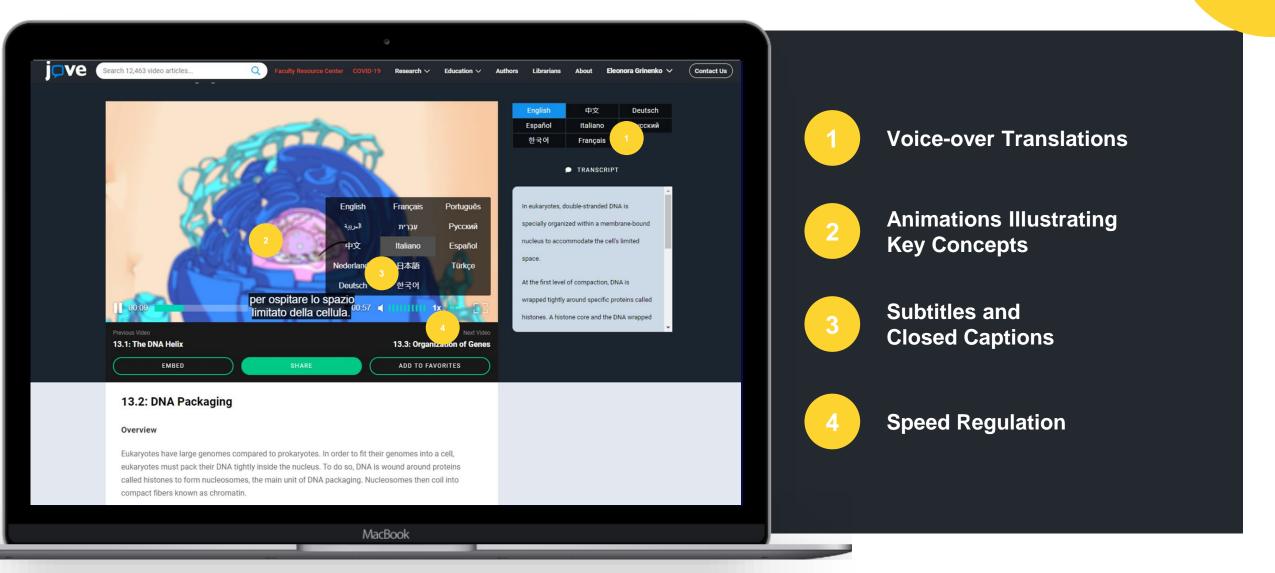
JoVE Core - Helpful Features for Instructors





JoVE Core - Helpful Features for Students





JoVE Lab Manual

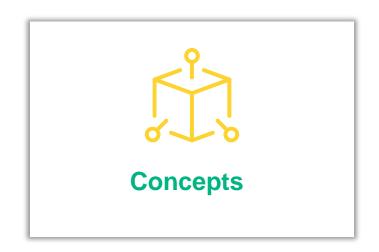
Curriculum-focused video resources that support teaching and learning of commonly taught introductory labs.

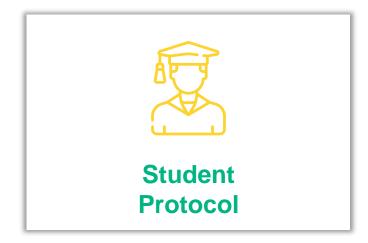
JoVE Lab Manual:
Biology

JoVE Lab Manual:
Chemistry

Step-by-step instructions for each lab experiment from 3 perspectives ...





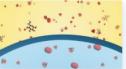




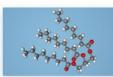
Fundamentals



Diffusion and Osmosis



Cell Structure



Macromolecules



Physiology of the Circulatory System

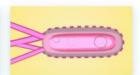
Genetics



Genetics of Organisms



DNA Isolation and Restriction Enzyme Analysis 🔓



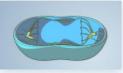
Bacterial Transformation

Cellular Processes



Cellular Respiration





Cell Division



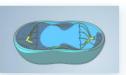
Transpiration

Photosynthesis

Cellular Processes









Ecology



JoVE

Lab

Manual



Energy Dynamics



Measuring Biodiversity

Cell Division



Extinction 🔓





Optimal Foraging





Climate Change



Sexual Selection and Mate Choice



Eusociality and Division of Labor

Evolution

Group Behavior



Plant Diversity



Artificial Selection



Hardy-Weinberg & Genetic Drift

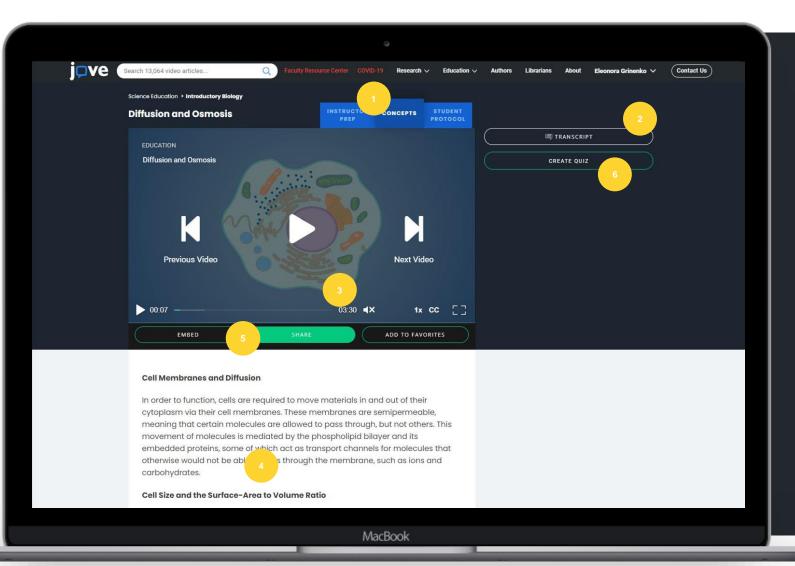




Animal Diversity Microbial and Fungal Diversity

JoVE Lab Manual - Helpful Features for Instructors

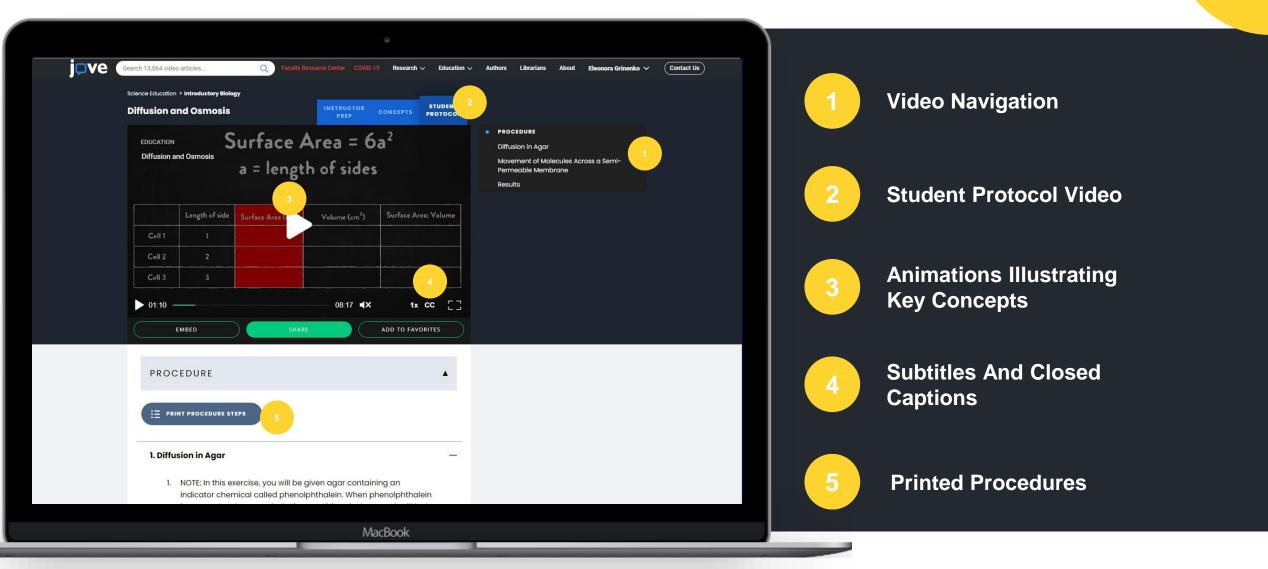




- Instructor's Preparation and Concepts Videos
- 2 Transcript for Concept Video or Navigation for Preparation Video
- 3 Short Video
- Reading Materials and
 Downloadable Materials List
- 5 Embed, Share, Add To Favorites Buttons
- 6 Create Quiz

JoVE Lab Manual - Helpful Features for Students





JoVE Science Education

500+ videos

easy-to-understand video demonstrations

key conceptual and methodological details that are difficult to visualize using text alone

Advanced Biology [6 collections]

Basic Biology [6 collections]

Chemistry [6 collections]

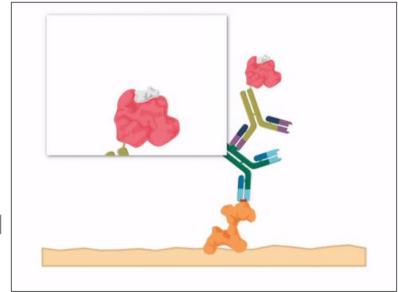
Clinical Skills [6 collections]

Engineering [8 collections]

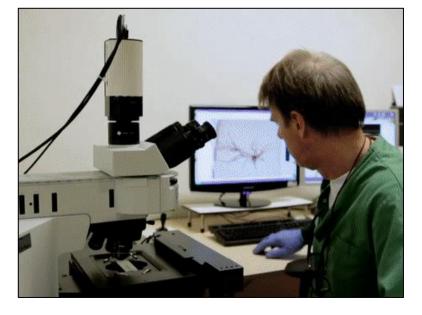
Environmental Sciences [3 collections]

Physics [2 collections]

Psychology [7 collections]



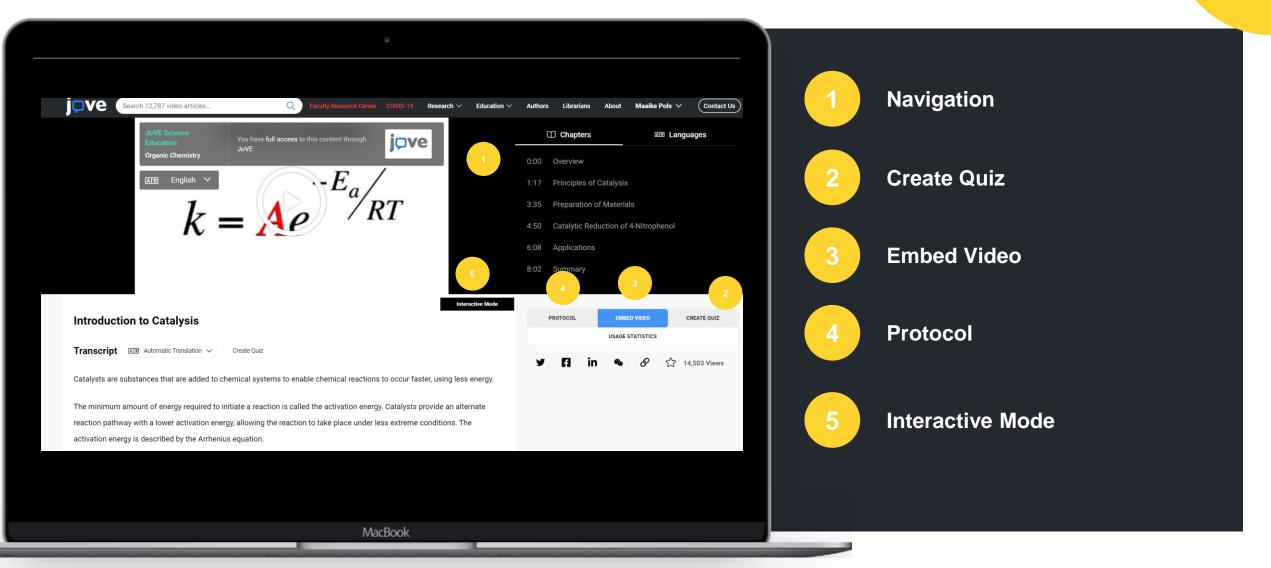
Basic Biology - The ELISA Method



Advanced Biology - An Introduction to Neuroanatomy

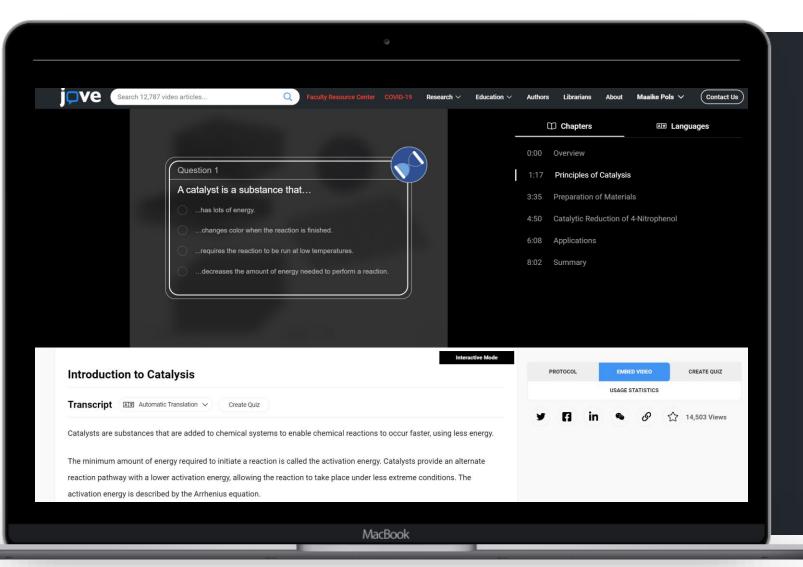
JoVE Science Education - Helpful Features for Instructors





JoVE Science Education - NEW Interactive Mode



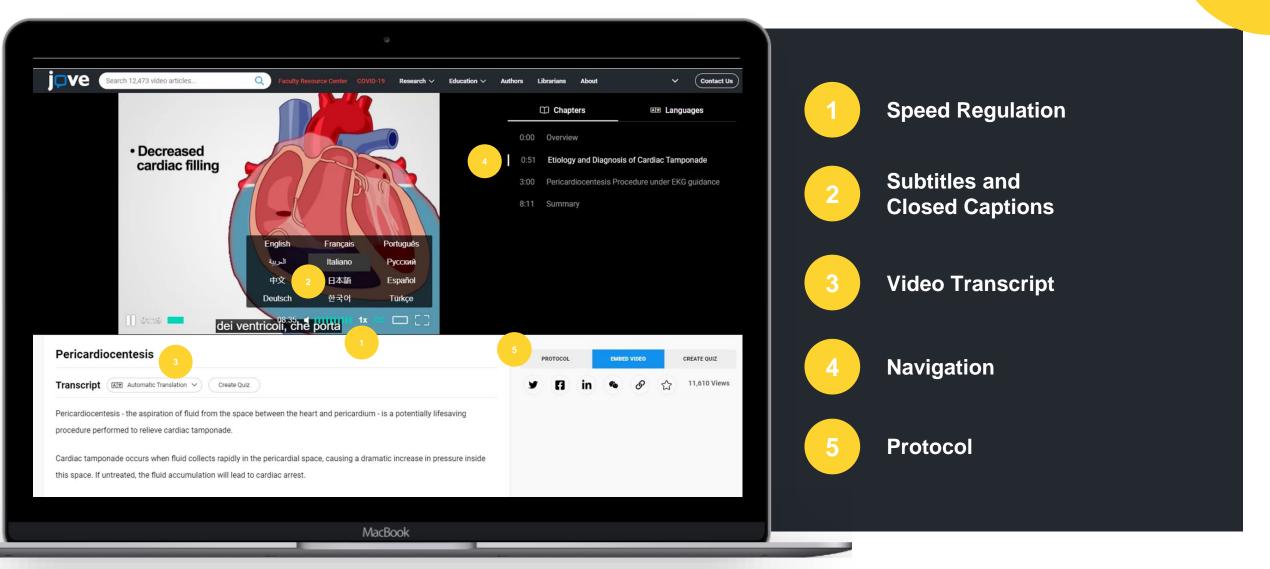


Interactive Mode pauses the video at intervals to ask a multiple choice question

Interactive mode videos can be embedded into a course LMS

JoVE Science Education - Helpful Features for Students





Benefits of Using Videos in Instruction

Accessibility

- Available 24/7
- Subtitles and voice overs in up to 14 languages
- Keyboard-only controls

Student Preparedness

- Increased learning efficiency
- Decreased faculty intervention

Knowledge Retention

- Comprehension tested via available quizzes
- Remediation tool for at-risk students

Student Engagement

- Improves learning outcomes
- Engages students at different levels









A study conducted at DeSales University and Clemson University with undergraduate students shows:

2X BETTER

Students who watched a JoVE video before a lab class performed up to two times better than those who read only traditional text handouts

100% HIGHER

JoVE video watchers scored 100% higher on the pre-lab test and 76% higher on the post-lab test

EVEN 5 MINUTES MATTER

Watching a video for as little as 5 minutes had a significant and lasting impact



Living Library

More Content Coming Soon

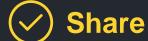
- Continuous JoVE Journal article releases across 13 disciplines
- JoVE Encyclopedia of Experiments: Cancer Research | Neuroscience
- JoVE Core: Organic Chemistry | Physics



JoVE Playlists

Streamline Teaching

Train Lab Members Accelerate Research



playlists with others, including students, faculty, researchers and lab staff.



Customize

them to meet specific instruction or lab training needs.



the videos saved in a playlist quickly and easily, whenever needed.



Engage

students by creating engaging class assignments or training programs



Create your very own JoVE playlists. Here are <u>instructions</u> and a quick <u>1 minute video</u> on how to create playlists



Request a playlist from our Customer Success
Team or your Account Manager



Browse available syllabus-mapped playlists:
JoVE-curated playlists of videos mapped to course syllabi, lab training programs, and more.

Log into your JoVE account

Navigate to My Playlists on your account page

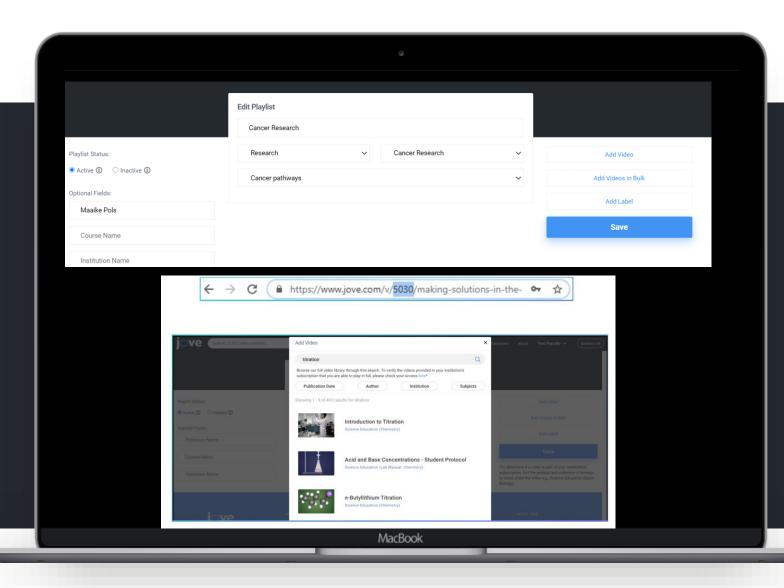
Click on Create a New Playlist



Name your Playlist and give it a purpose, topic and specialty

Find relevant articles for your research and add them to your playlist via "add video" or "add videos in bulk" using the article ID's found in the url

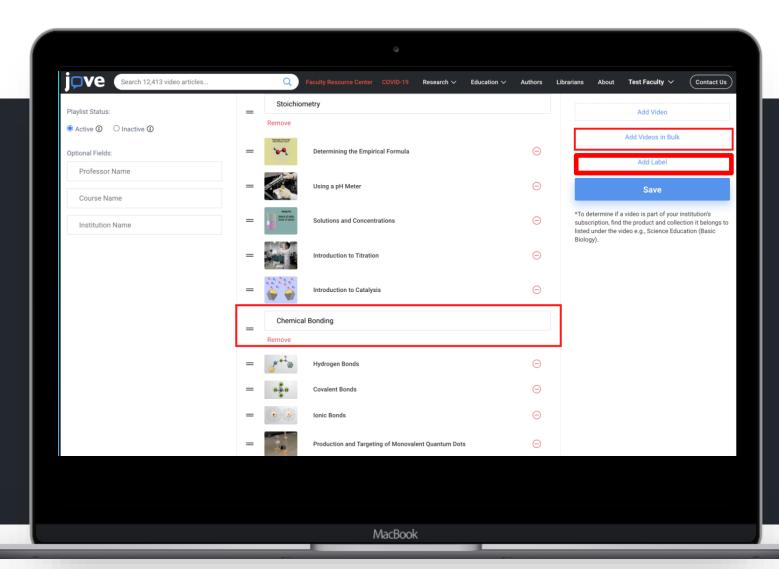
or "add videos in bulk" using the article ID's; a string of 4-5 numbers found in the url

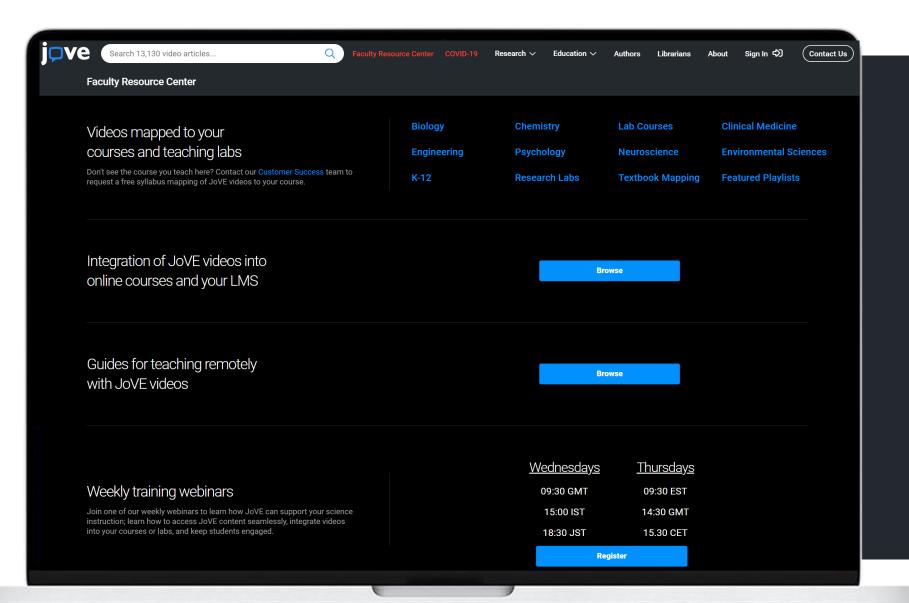


Use labels to organize videos into sections within your playlist

When relevant add a professor, course and institute name and click "Save" when your playlist is finished

Your playlist now appears in the My Playlists section of your account. Share your playlist with peers using the "Copy url" button. You can clone or edit your playlist at any time





Faculty Resource Center

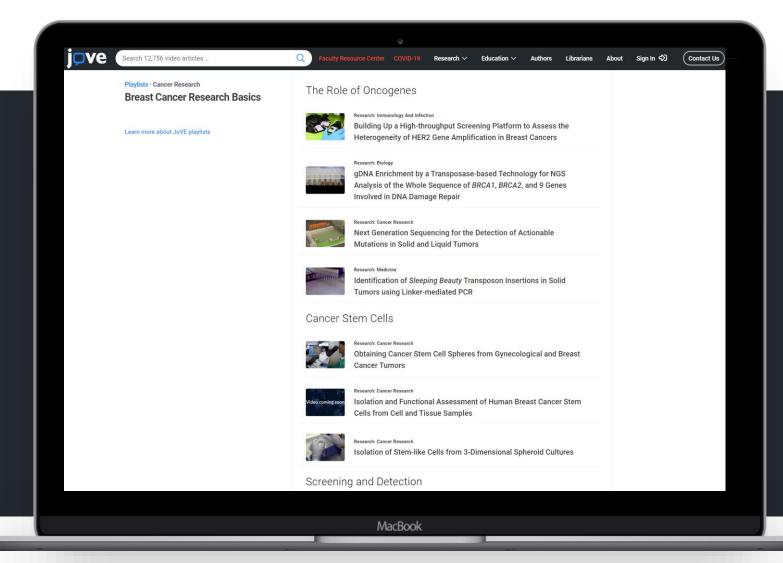
Syllabus and Training Program Mapping

Save time on creating class curricula, building lesson plans or establishing laboratory training programs

JoVE's subject matter experts will map best fit content to your syllabus or training program

Receive a clickable list of suggestions for content that best support your needs

Email manprit.kaur@jove.com





ACCESS JOVE SUPPORT COURSE INTEGRATION FAQS



In an effort to support remote instruction, UCF has renewed a one-year instructional subscription to JoVE Science Education for the 2021-2022 academic year.

- Videos covering research methods, lab manuals, clinical skills, and similar topics in STEM fields.
- Over 12,000 videos in disciplines such as biology, chemistry, engineering, medicine, physics, and psychology.
- Brief video demonstrations of labs and experiments to teach core scientific concepts.
- JoVE videos that can be viewed on their site or embedded into learning management systems

ACCESS JOVE SUPPORT COURSE INTEGRATION FAQS

WEBCOURSES@UCF INTEGRATION

JoVE content can be easily integrated into your Webcourses@UCF course in multiple ways by:

- Embedding content directly onto a Canvas page.
- Implementing JoVE curated curriculum in a common cartridge file or QTI file that can be imported into your Webcourses@UCF course.
- Linking content directly into a module through the JoVE External Tool.

Embedding a Video on a Page

When embedding content from JoVE into your Webcourses@UCF course, you will first want to create an account with JoVE if you have not already done so. (If you need to create an account, please refer to the steps in the above Accessing JoVE section.)

Once you are logged into JoVE with your personal JoVE account, you can then retrieve the embed code of the video(s) you would like to add into your Webcourses@UCF course. For assistance on how to add a JoVE embed code onto your Canvas page, refer to this video tutorial.

https://youtu.be/qVv4BIJSnjg

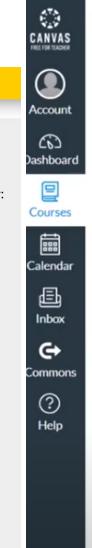
Once you have the embed code, you can also refer to this Canvas Guide Canvas Guide on how to embed a video onto a Page: How do I embed a video in a page in a course?.

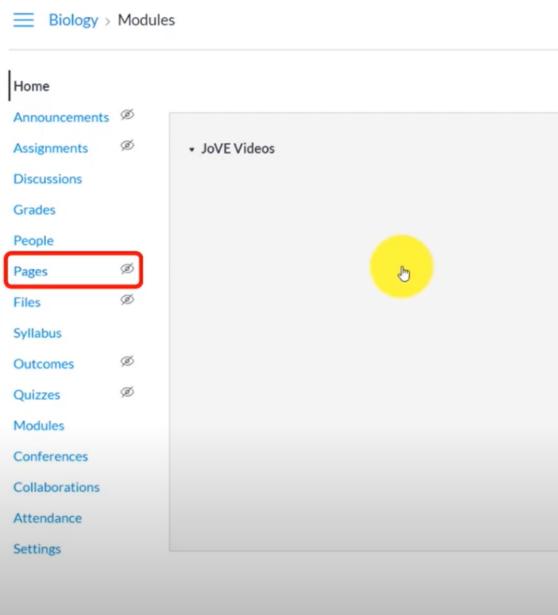
If you have multiple videos that you would like to have embedded into your course, you can also contact JoVE's Customer Success team and they will be able to provide you with a list of all of the embed codes of the videos you are requesting.

Importing Files into your Webcourses@UCF Course

If you work with JoVE to curate curriculum content specifically for your course, they may provide you the content through a Common Cartridge file.

You can refer to this Canvas Guide on how to import Common













Free Weekly Training sessions; Thursdays 9.30AM EST

Free Syllabus Mapping Service; Receive a clickable playlist of JoVE videos relevant to you and your research/courses

Customer success support faculty with embedding videos and quizzes

For more information about faculty support email majorit.kaur@jove.com

For sales related enquiries email Trevor Schuck trevor.schuck@jove.com

For webinar information and registration links email Maaike.pols@jove.com

Questions?

MacBook