

Didattica, attività laboratoriali e tirocini con i video di JoVE

Progetto F.E.D.E.R.I.C.O 14/07/2020

Fabrizio G. Doccia, PhD –
Research & Education Specialist Italy



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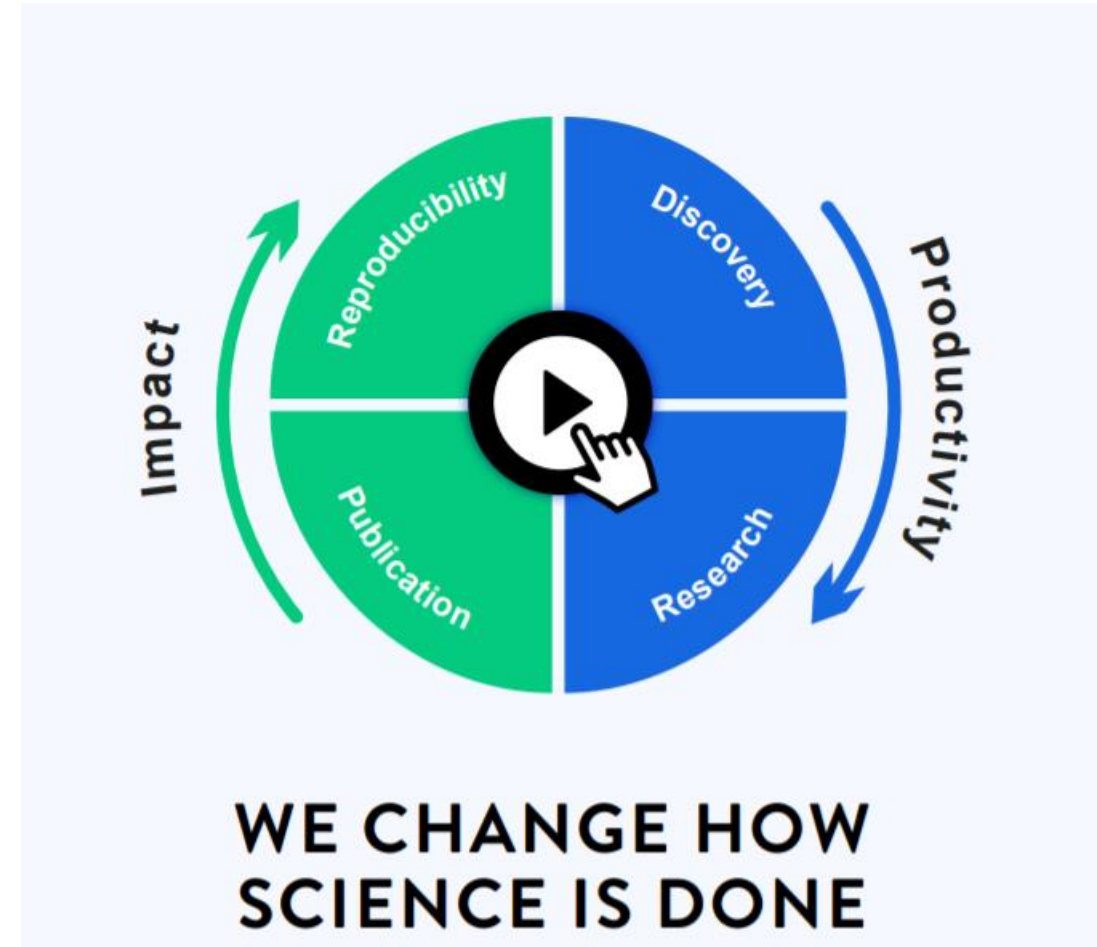
Parte Teorica:

- Introduzione a [JoVE](#)
- [JoVE Research](#): riproducibilità dei metodi e produttività della ricerca
- [JoVE Education](#): didattica, laboratori e tirocini clinici professionalizzanti

Parte Pratica:

- Come accedere a JoVE
- Come cercare i video di JoVE: Bottom/up – top/down approaches
- Come integrare i video nel syllabus
- Come condividere i video con gli studenti
- Test di autoverifica

Conclusioni + Q&A



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JoVE è **leader mondiale** nella produzione di **risorse scientifiche audiovisive** con l'obiettivo di **incrementare la produttività della ricerca** e **innovare la didattica**



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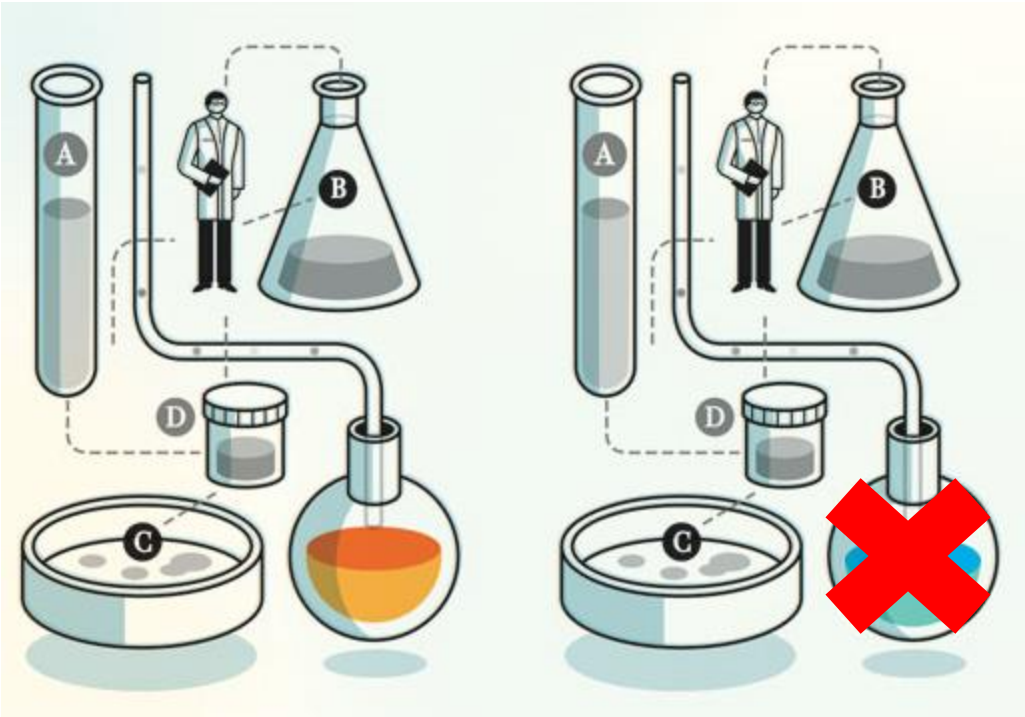
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**Solamente il 10-40% degli articoli
scientifici pubblicati sono
riproducibili**

(Nature, 2013)

Protocollo testuale

Position the metaphase spindle at 3 o'clock and hold it with holding pipette. Apply piezo pulses to penetrate the zona pellucida. Touch the metaphase plate with the enucleation pipette. Aspirate the spindle and withdraw the pipette.

La visualizzazione aumenta il trasferimento di conoscenza dell'how-to (metodi)

Protocollo testuale

Position the metaphase spindle at 3 o'clock and hold it with holding pipette. Apply piezo pulses to penetrate the zona pellucida. Touch the metaphase plate with the enucleation pipette. Aspirate the spindle and withdraw the pipette.

Video protocollo/Realtà



La visualizzazione aumenta il trasferimento di conoscenza dell'how-to (metodi)

> [Med Teach](#). 2010;32(9):760-5. doi: 10.3109/01421591003686260.

Advantages of Video Trigger in Problem-Based Learning

Lap Ki Chan ¹, Nivritti G Patil, Julie Y Chen, Jamie C M Lam, Chak S Lau, Mary S M Ip

Case Reports > [Nurse Educ Today](#). 2019 Aug;79:129-134. doi: 10.1016/j.nedt.2019.05.015.

Epub 2019 May 10.

Effect of Case Study Versus Video Simulation on Nursing Students' Satisfaction, Self-Confidence, and Knowledge: A Quasi-Experimental Study

Elizabeth K Herron ¹, Kelly Powers ², Lauren Mullen ³, Brandi Burkhart ³

Comparative Study > [J Dent Educ](#). 2014 Jan;78(1):24-30.

Student Learning Outcomes Associated With Video vs. Paper Cases in a Public Health Dentistry Course

Donald L Chi ¹, Jacqueline E Pickrell, Christine A Riedy

- Aumentano lo spirito osservativo degli studenti
- Aumentano il ragionamento
- Aiutano nell'integrazione di informazioni multiple
- Aiutano a spiegare al meglio alcuni concetti altrimenti di difficile comprensione
- Grazie ad un formato per loro accattivante e a cui sono abituati (Generazione Y), motivano gli studenti a studiare
- Stimolano l'attenzione degli studenti
- Favoriscono la memoria a lungo termine

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FAQ

Instructions & Template

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Delphine Dean

PhD, Clemson University



The JoVE video we published has been really helpful for getting a couple of grants in my lab, as well as just for visibility. I've had people I didn't know come up to me at meetings saying that they've seen it and have used it in their own lab.



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Step 1

Manuscript Preparation

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Editorial & Peer Review

Step 3

Scripting & Filming

Step 4

Video Editing

Step 5

Proofing & Publication

Summary

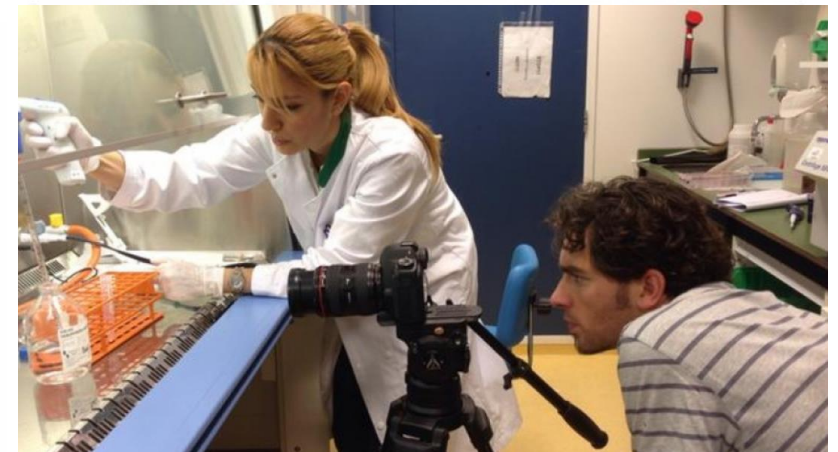
JoVE will handle all aspects of video production, including filming and editing, for accepted video articles at locations within our [Videographer Network](#). If you are outside of our network, then please see our [Editorial Policies.... read more](#)

STEP 1

Manuscript Preparation

Here is a list of required documents you will need for your JoVE submission:

1. A manuscript prepared using JoVE's [Manuscript Template](#)
2. A single signed [Author License Agreement](#) or a [UK Author License Agreement](#)
3. Separate figure files/data tables



Picture credit: Henri Versteeg of Eindhoven Laboratory

Dietro ogni grande scienziato, c'è sempre un grande metodo **JoVE**

JoVE celebrates the achievements of the **2018 Nobel Laureate in Chemistry, Dr. Frances H. Arnold!** She is the fifth Nobel laureate JoVE is proud to count among its authors.



JoVE is proud to count **Dr. Ben L. Feringa** as the **6th Nobel Laureate** among its authors (2016 Nobel Prize in Chemistry) - University of Groningen titled "**Light-driven Molecular Motors on Surfaces for Single Molecular Imaging**"



John B. Gurdon

The Nobel Prize in Physiology or Medicine 2012

JoVE Publication: [Manipulation and In Vitro Maturation of Xenopus laevis Oocytes, Followed by Intracytoplasmic Sperm Injection, to Study Embryonic Development](#)



Oliver Smithies

The Nobel Prize in Physiology or Medicine 2007

JoVE Publication: [A Simple Method for the Size Controlled Synthesis of Stable Oligomeric Clusters of Gold Nanoparticles under Ambient Conditions](#)



Robert H. Grubbs

The Nobel Prize in Chemistry 2005

JoVE Publication: [An In Vitro Enzymatic Assay to Measure Transcription Inhibition by Gallium\(III\) and H₃ 5,10,15-tris\(pentafluorophenyl\)corroles](#)



Jack W. Szotack

The Nobel Prize in Physiology or Medicine 2007

JoVE Publication: [Preparation, Purification, and Use of Fatty Acid-containing Liposomes](#)





Chapters

- 0:04 Introduction
- 0:29 Optical Mapping System Setup
- 1:16 Slicing Protocol
- 2:41 Static Slice Culture
- 3:22 Optical Mapping
- 5:01 Data Processing
- 7:24 Results: Representative Transmembrane Potential and Calcium Transient Mapping
- 8:38 Conclusion

Preclinical Cardiac Electrophysiology Assessment by Dual Voltage and Calcium Optical Mapping of Human Organotypic Cardiac Slices

Sharon A. George¹, Jaclyn A. Brennan¹, Igor R. Efimov¹

ARTICLE

EMBED VIDEO

DOI



761 Views

[Abstract](#) [Introduction](#) [Protocol](#) [Results](#) [Discussion](#) [Materials](#) [References](#)

AI Automatic Translation ▾

Bioengineering

Preclinical Cardiac Electrophysiology Assessment by Dual Voltage and Calcium Optical Mapping of Human Organotypic Cardiac Slices

doi: [10.3791/60781](https://doi.org/10.3791/60781) Published: June 16, 2020Sharon A. George^{*1}, Jaclyn A. Brennan^{*1}, Igor R. Efimov¹¹Department of Biomedical Engineering, The George Washington University

* These authors contributed equally

Summary

This protocol describes the procedure for sectioning and culturing human cardiac slices for preclinical drug testing and details the use of optical mapping for recording transmembrane voltage and intracellular calcium signals simultaneously from these slices.

Abstract

Human cardiac slice preparations have recently been developed as a platform for human physiology studies and therapy testing to bridge



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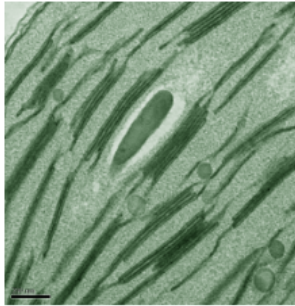


Milka Kostic

Minimally invasive pancreatic surgery

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Paul Jarvis

Department of Plant Sciences

Research in Dr. Paul Jarvis's laboratory is focused on the development and functions of chloroplasts in plants,...

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Collection Overview

Chloroplasts are the organelles that define plants. Along with many other metabolic, developmental and signalling functions, chloroplasts are responsible for photosynthesis – the process whereby sunlight energy is harnessed to power the cellular activities of life. Consequently, chloroplasts are essential, not only for plants but also for the myriad ecosystems that depend on plants, and for agriculture. Chloroplasts are composed of thousands of different proteins, most of which are nucleus encoded and imported from the cytosol before being routed internally to one of a number of clearly distinct intraorganelar

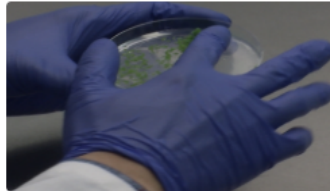
Editorial



Chloroplast Research Methods: Probing The Targeting, Localization And Interactions Of Chloroplast Proteins

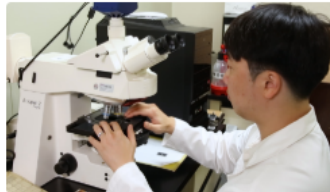
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Studying Protein Import Into Chloroplasts Using Protoplasts

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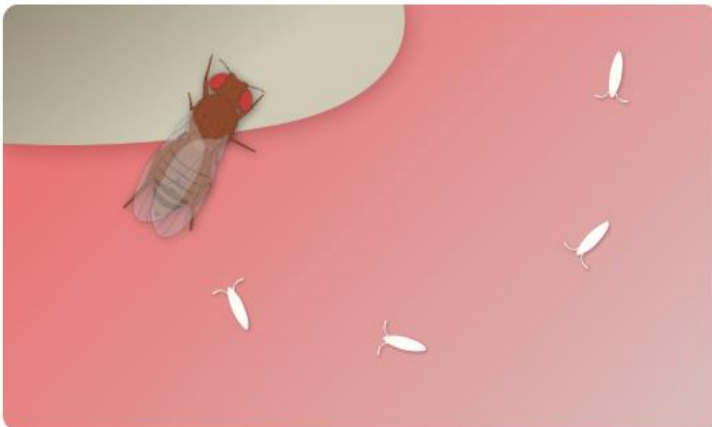
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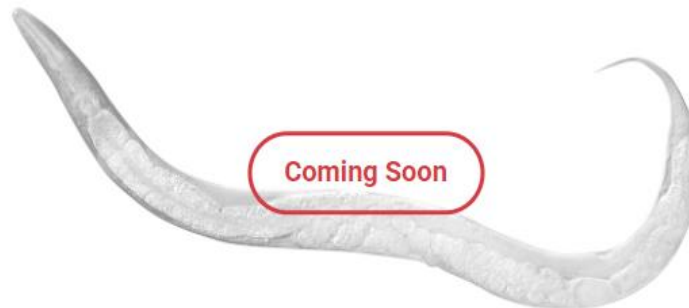
JoVE Encyclopedia Of Experiments: Biology

JoVE Encyclopedia of Experiments is the first-in-the-world online video encyclopedia of advanced research experiments. This resource enables scientists in academia and biotech to efficiently learn new experiments and research technologies to advance their work.

Drosophila melanogaster (fruit fly)



C. elegans (worm)



Danio rerio (zebrafish)





Encyclopedia of Experiments

Drosophila melanogaster (fruit fly)

This collection features research techniques for the model organism *Drosophila melanogaster* at each stage of its life cycle. These methods are used by *Drosophila* researchers to explore a wide range of physiological and behavioral questions.

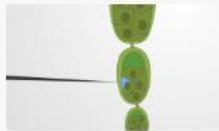
Embryo

Larva

Pupa

Adult

Embryo



Microinjection of *Drosophila* Nurse Cells
A Method of Intracellular Delivery



***Drosophila* Egg Collection and Dechoriation**
A Method to Remove the Outermost Egg Layer



Preparation of Fixed *Drosophila* Oocytes for Immunostaining
A High-Throughput Method to Fix and Remove the Outer Membrane



Chorion and Vitelline Membrane Mechanical Removal
A Method to Prepare *Drosophila* Oocytes for Direct Observation



Microinjection of Live *Drosophila* Embryos
Early Delivery of Reagents to the Developing Embryo

Larva



***Drosophila* Burrowing and Tunneling Assay**
A Method to Assess Tissue Hypoxia in Fly Larvae



***Drosophila* Larva Imaginal Disc Dissection**
A Method to Observe Developing Epithelia

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La prima rivista scientifica *peer-reviewed* in formato audiovisivo, indicizzata e con *IF*



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Favorisce la riproducibilità dei metodi e abbrevia il tempo per riprodurre una tecnica di interesse



Aumenta la produttività in maniera economicamente sostenibile (risparmio sul materiale di laboratorio)

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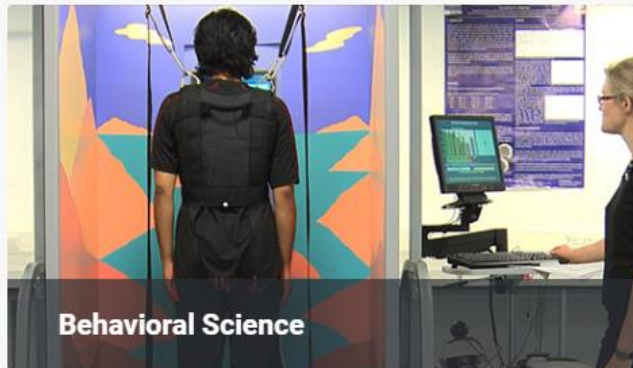
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Behavioral Science

This collection presents the fundamentals of behavior neuroscience and focuses on the concepts of learning, memory, cognition, movement, addiction and behavioral disorders.



Experimental Psychology

This collection provides a framework for observing how psychological experiments are embedded in the actual research process, starting from the initial research design to arriving at conclusions in a study.



Cognitive Psychology

This collection describes a number of influential paradigms used to study complex mental processes underlying attention, perception, learning and memory.



Developmental Psychology



Neuropsychology

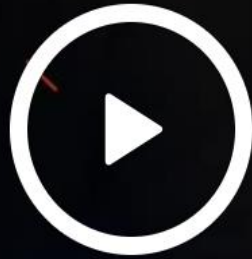


Sensation and Perception

JoVE Science Education Library Cognitive Psychology

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 Italiano ▾



Chapters

Languages

- 0:00 Overview
- 0:40 Stimulus Design
- 2:13 Conducting the Study
- 3:04 Analysis and Results
- 4:12 Applications
- 5:05 Summary

Visual Search for Features and Conjunctions

Transcript

 Automatic Translation ▾

Visual attention refers to the ability to focus in on just a part of an image. To study how people attend to objects in cluttered visual scenes, psychologists use a paradigm known as visual search.

Often, visual search experiments can help researchers explain why some objects are easy to find and others more difficult.

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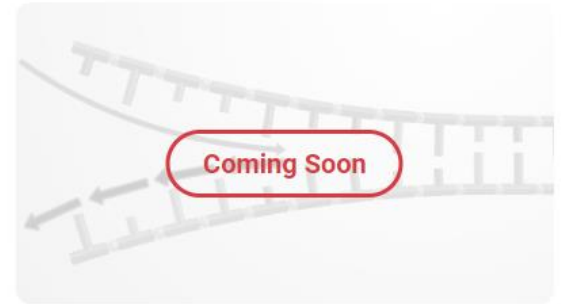
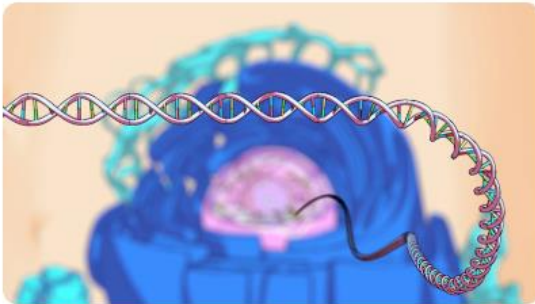
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Cellular Processes

Genetics

Human Biology

Ecology

Evolution

Plant Biology



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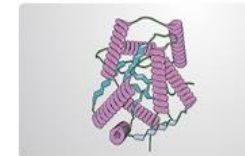
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Scientific Inquiry



Chapter 2
Chemistry of Life



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Cellular Processes



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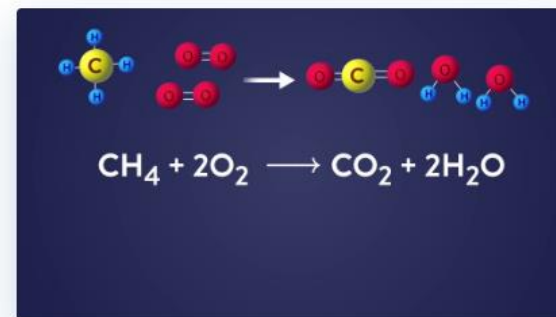
Comprehensive, curriculum-focused videos for both instructors and students in introductory chemistry lab courses.



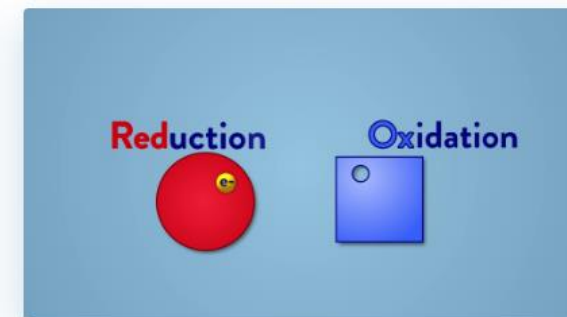
Lab Techniques



Scientific Measurement and Lab Skills



Stoichiometry, Product Yield, and Limiting Reactants



Redox Reactions



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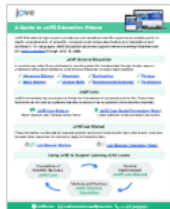
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Framework Biology - Syllabus Mapping

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Regolazione della trascrizione nei procarioti e negli eucarioti.

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[Cell Division](#) (concept video, [Lab Manual: BIO](#))

[Positive Regulator Molecules](#) ([JoVE Core](#))

[Negative Regulator Molecules](#) ([JoVE Core](#))

Fondamenti di biologia molecolare:

DNA ricombinante e clonazione di geni.

[Recombinant DNA](#) ([JoVE Core](#))

[Molecular Cloning](#) ([SciEd](#) > [Basic Bio](#) > [Basic Methods](#))

Reazione a catena della polimerasi (PCR e RT-PCR),

[PCR: The Polymerase Chain Reaction](#) ([SciEd](#) > [Basic Bio](#) > [Basic Methods](#))

[RNA Analysis of Environmental Samples Using RT-PCR](#) ([SciEd](#) > [Environ. Sciences](#) > [Environmental Micro.](#))

Southern blotting

Principali applicazioni della diagnostica molecolare e delle biotecnologie ricombinanti ai fini della diagnosi e della valutazione della predisposizione alle malattie.

[An Overview of Genetics and Disease](#) ([SciEd](#) > [Advanced Bio](#) > [Genetics](#))

Clonazione e manipolazione del genoma animale: introduzioni agli aspetti tecnici e ai fondamenti biologici.

[Reproductive Cloning](#) ([JoVE Core](#))

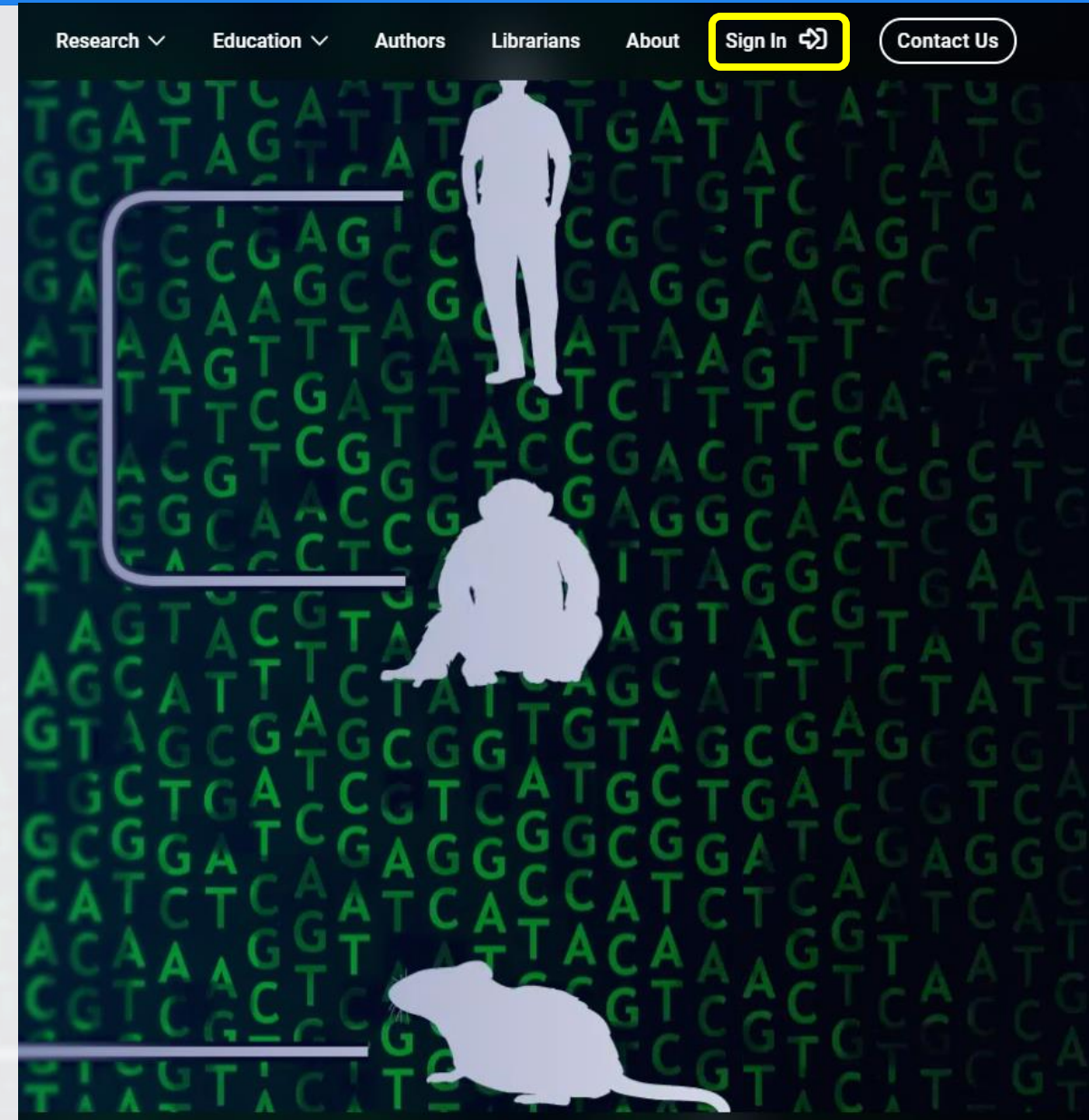
[Combinational Treatment of Trichostatin A and Vitamin C Improves the Efficiency of Cloning Mice by Somatic Cell Nuclear Transfer](#)

([Video Journal](#) > [Dev. Bio.](#) OA)

Accesso alla piattaforma avviene tramite sistema di autenticazione federata IDEM-GARR (tramite **Shibboleth**)

Come si accede: nel box di login sulla piattaforma JoVE (in alto a destra), selezionare:

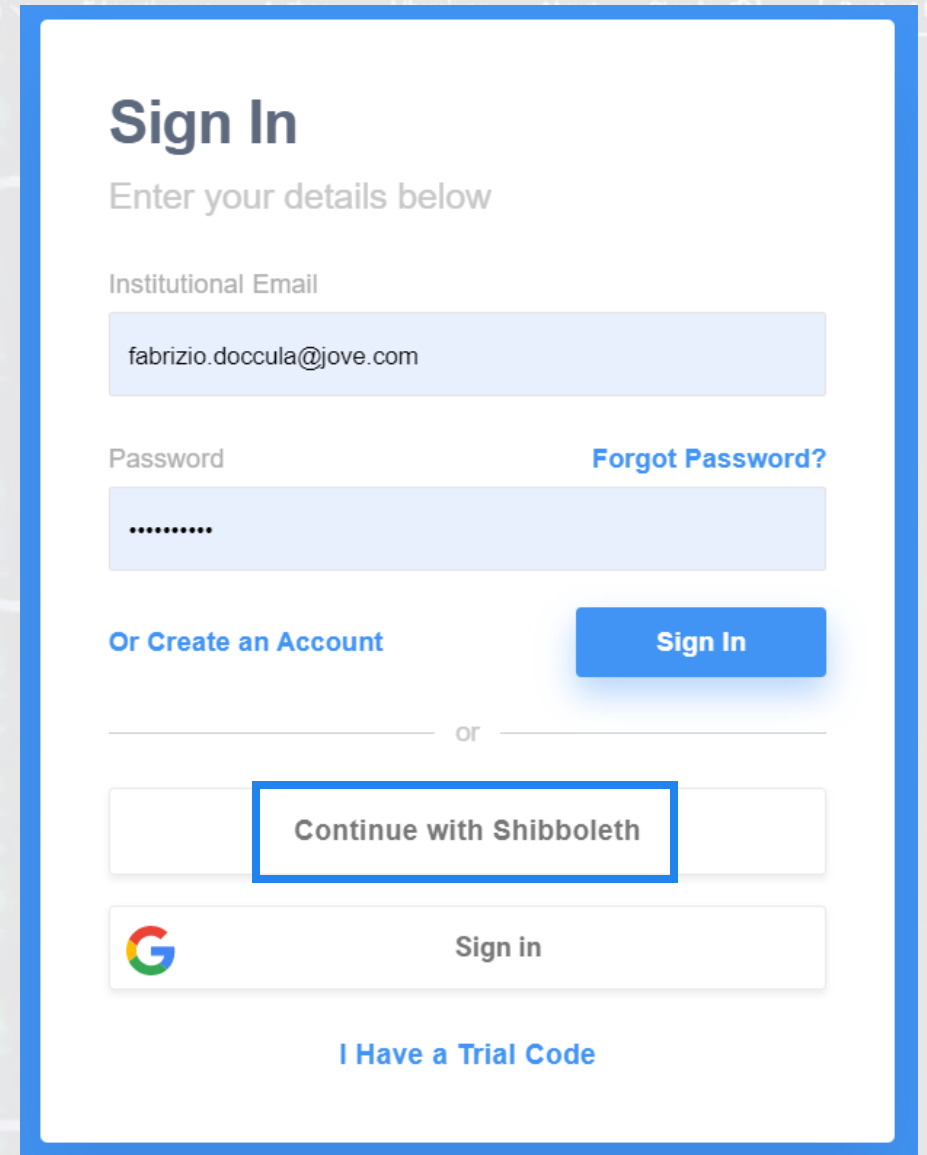
1. via Shibboleth
2. selezionare Institution
3. Università degli studi di Napoli Federico II
4. Inserire le credenziali di posta elettronica di ateneo
5. Accesso ai video di JoVE



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5. Accesso ai video di JoVE



The screenshot shows the JoVE Sign In interface. At the top, it says "Sign In" and "Enter your details below". There are two input fields: "Institutional Email" with the value "fabrizio.doccula@jove.com" and "Password" with masked characters. A "Forgot Password?" link is next to the password field. Below the fields are two buttons: "Or Create an Account" and "Sign In". A horizontal line with "or" in the center separates these from the "Continue with Shibboleth" button, which is highlighted with a blue border. Below that is a "Sign in" button with the Google logo. At the bottom, there is a link "I Have a Trial Code".

You can use Shibboleth or OpenAthens to sign into JoVE if your institution has registered to allow access. Please select your institution from the list of registered identity providers below:

[GO TO LOGIN](#)

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Tianjin University
Tohoku University
Tomas Bata University in Zlin
Tongji University
Tsinghua University
Tulane University
Universidad Autónoma Metropolitana
Universidad Latinoamericana - ULA
Universidad Tecnica Particular de Loja
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Università di Padova
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Université Catholique de Lyon

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Overview

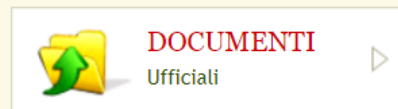
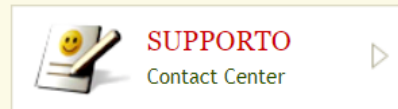
Leadership

Careers

JoVE – Accesso da remoto (1)



SHIBBOLETH IDENTITY PROVIDER LOGIN



Utente*

password

Login

* accedi con utente completo di
@unina.it o @studenti.unina.it

CENTRO DI ATENEO PER I SERVIZI INFORMATIVI

L'Università di Napoli partecipa a IDEM (IDentity Management federato per l'accesso ai servizi) per la realizzazione dell'Infrastruttura di Autenticazione e Autorizzazione federata della Rete GARR.

Per gli utenti **MATLAB** leggere le istruzioni su

www.softwareesso.unina.it

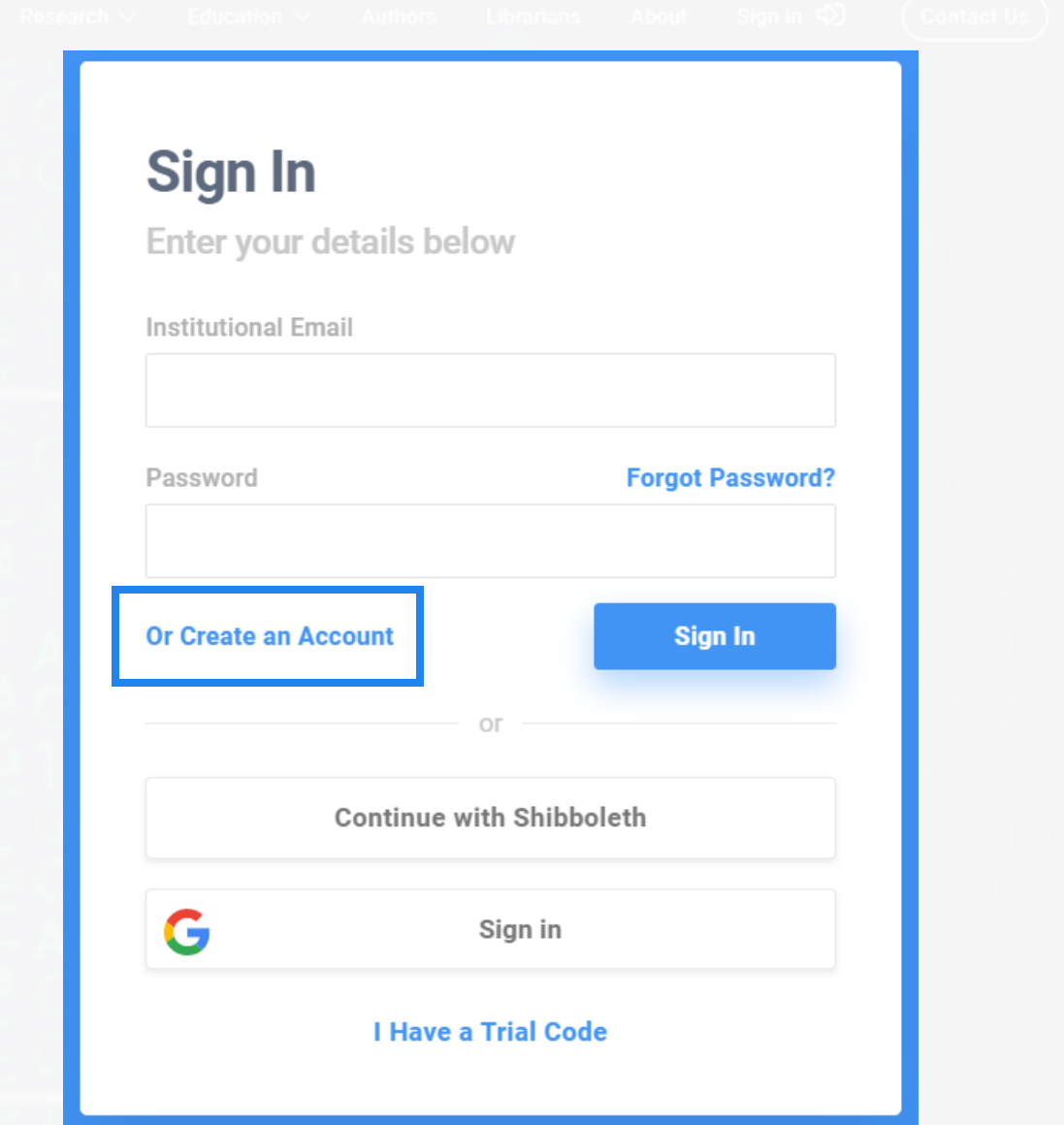
in caso di mancato accesso effettuare il reset della password dell'account e se il problema persiste scrivere a software@unina.it indicando la propria email istituzionale

Per le problematiche di ordine tecnico ed organizzativo relative all'Identity

Creazione di un profilo personale gratuito all'interno della piattaforma JoVE (jove.com)

Cliccare al link **jove.com/account** (o Log-In sul sito) e inserire email istituzionale (nome.cognome@unina.it)

Una volta completato il processo, riceverai una mail di conferma al fine di convalidare l'account appena creato

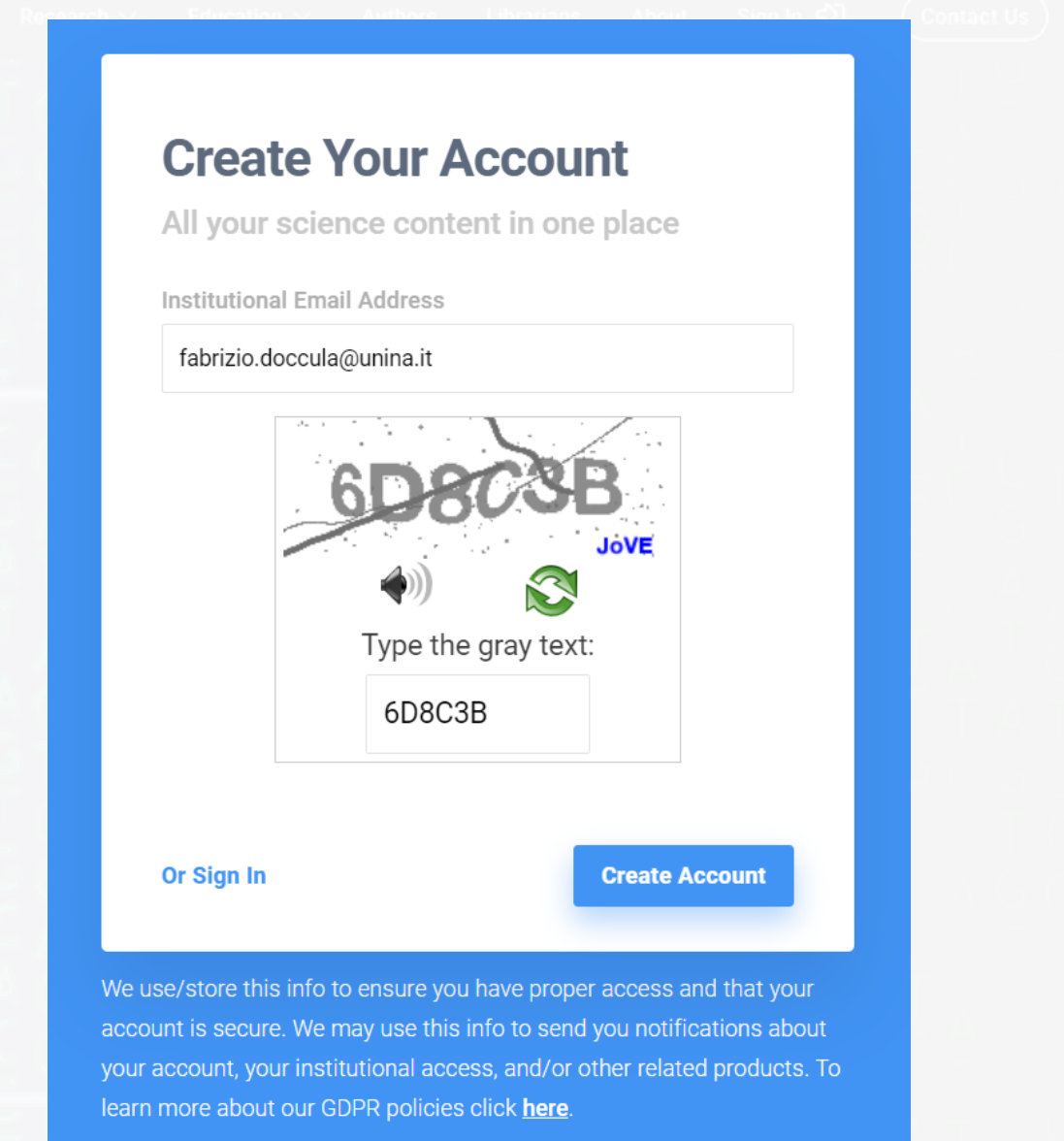


The screenshot shows the JoVE website's sign-in interface. At the top, there is a navigation bar with links for Research, Education, Authors, Librarians, About, Sign In, and Contact Us. The main heading is "Sign In" with the instruction "Enter your details below". There are two input fields: "Institutional Email" and "Password". A link "Forgot Password?" is next to the password field. Below the fields are two buttons: "Or Create an Account" (highlighted with a blue box) and "Sign In". Below these buttons is a separator line with "or" in the middle. Under the separator are two more options: "Continue with Shibboleth" and a Google sign-in button (with the Google logo and the text "Sign in"). At the bottom, there is a link "I Have a Trial Code".

Creazione di un profilo personale gratuito all'interno della piattaforma JoVE (jove.com)

Cliccare al link jove.com/account (o Log-In sul sito) e inserire email istituzionale (nome.cognome@unina.it)

Una volta completato il processo, riceverai una mail di conferma al fine di convalidare l'account appena creato



Create Your Account
All your science content in one place

Institutional Email Address
fabrizio.doccula@unina.it

6D8C3B
Type the gray text:
6D8C3B

[Or Sign In](#) [Create Account](#)

We use/store this info to ensure you have proper access and that your account is secure. We may use this info to send you notifications about your account, your institutional access, and/or other related products. To learn more about our GDPR policies click [here](#).

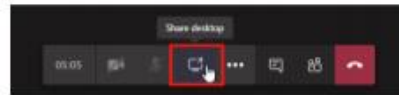
Lezioni in live streaming: Teams

Teaching with JoVE using Microsoft Teams

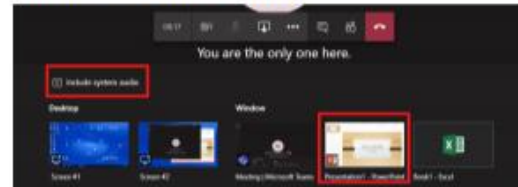


Below you'll find a few simple steps on how to share JoVE videos with your students while teaching in Microsoft Teams. To get a complete guide for Microsoft Teams for education, please click [here](#) to download.

- Log into your JoVE account and queue up the video you would like to share
- Turn closed captions on by clicking on the **CC** button in the bottom right corner of the JoVE video player
- In your MS Teams meeting, select **Share desktop**



- Pop-up window appears with your screens and open computer programs
- Check the **Include system audio** box to the left
- Choose the screen you'd like to share by clicking on it



- Mute your students so that there isn't any background noise, you can find this option in the **Manage Participants** window



- If you would like to narrate or comment while the video plays, make sure you do not mute yourself



- Play the desired video!

For any additional information or help please contact us at customersuccess@jove.com.

Microsoft Teams



Stay better connected with the Teams desktop app

Download the Windows app

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Approfondimento e studio da remoto: Moodle (1)



JoVE Science Education > Scientific Inquiry > Dashboard

Search 10,961 video articles

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Back to Core

CHAPTER 1

Scientific Inquiry

KEY TERMS AND CONCEPTS

SCIENTISTS IN ACTION



1.1: What is Biology?

Biology is the natural science that focuses on the study of life and living organisms, including their structure, function, development,...



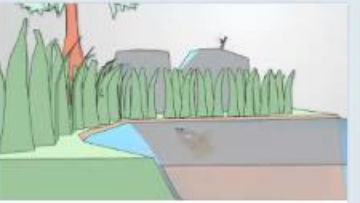
1.2: Levels of Organization

Biological organization is the classification of biological structures, ranging from atoms at the bottom of the hierarchy to the Earth's...



1.3: The Scientific Method

The scientific method is a detailed, empirical, problem-solving process leveraged by biologists and scientists of other disciplines. This iterative...



1.4: Inductive Reasoning

Inductive reasoning is a type of logic in which premises lead to a conclusion. Inductive...



1.5: Deductive Reasoning

When scientists set out to explore and explain natural phenomena, they often start with specific...

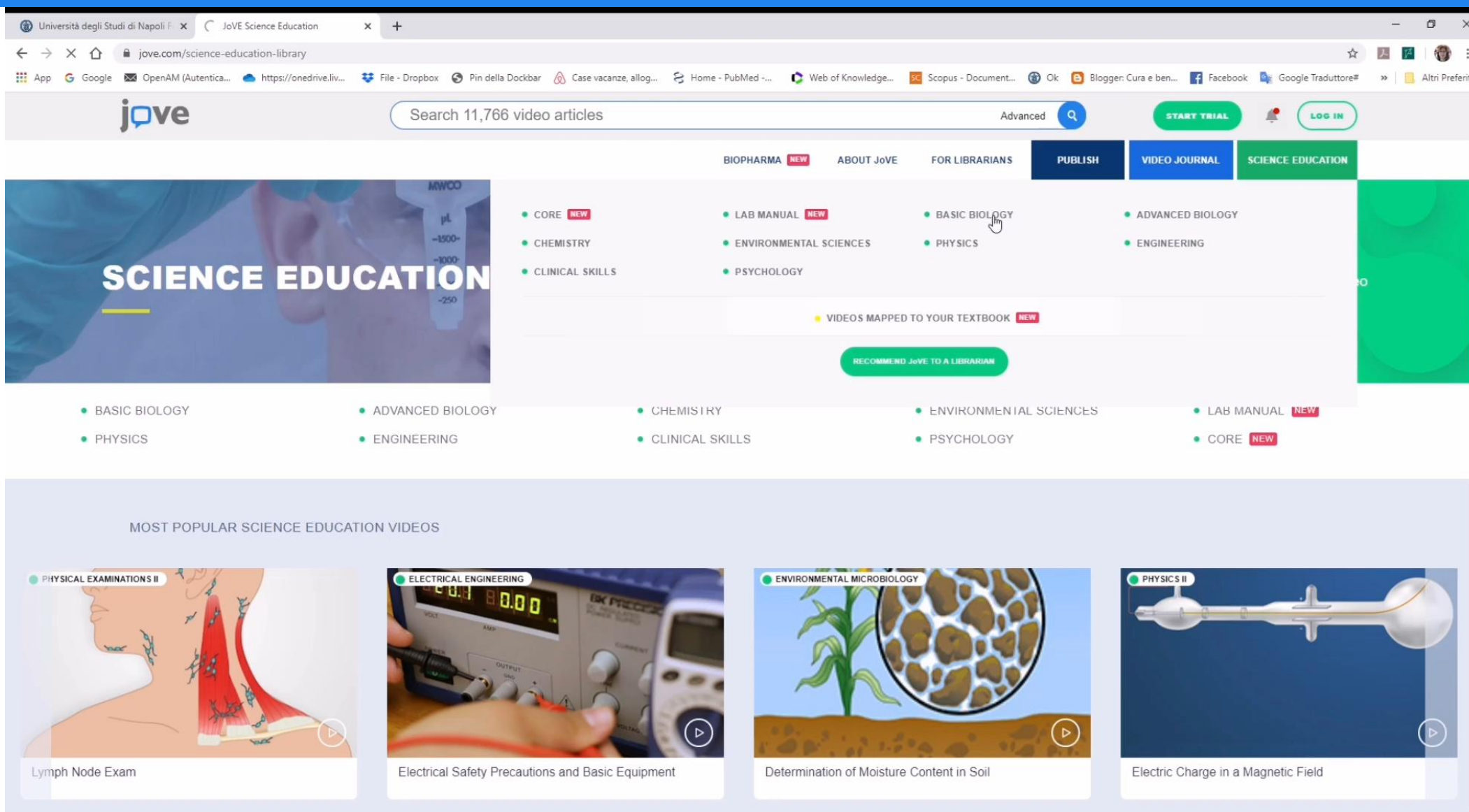


1.6: Correlation and Causation

Statistical tests can calculate whether there is a relationship, or correlation, between independent...

3:20 PM 9/12/2019

Approfondimento e studio da remoto: WEBdocenti (2)



The screenshot displays the Jove Science Education website. The browser address bar shows the URL jove.com/science-education-library. The page features a search bar with the text "Search 11,766 video articles" and a navigation menu with tabs for "BIOPHARMA", "ABOUT JoVE", "FOR LIBRARIANS", "PUBLISH", "VIDEO JOURNAL", and "SCIENCE EDUCATION". A large banner on the left reads "SCIENCE EDUCATION". Below this, a grid of categories is shown, including "CORE", "LAB MANUAL", "BASIC BIOLOGY", "ADVANCED BIOLOGY", "CHEMISTRY", "ENVIRONMENTAL SCIENCES", "PHYSICS", "ENGINEERING", "CLINICAL SKILLS", and "PSYCHOLOGY". A section titled "VIDEOS MAPPED TO YOUR TEXTBOOK" includes a "RECOMMEND JoVE TO A LIBRARIAN" button. At the bottom, a section titled "MOST POPULAR SCIENCE EDUCATION VIDEOS" displays four video thumbnails: "PHYSICAL EXAMINATIONS II" (Lymph Node Exam), "ELECTRICAL ENGINEERING" (Electrical Safety Precautions and Basic Equipment), "ENVIRONMENTAL MICROBIOLOGY" (Determination of Moisture Content in Soil), and "PHYSICS II" (Electric Charge in a Magnetic Field).

Universit  degli Studi di Napoli F. x JoVE Science Education x +

jove.com/science-education-library

jove Search 11,766 video articles Advanced

START TRIAL LOG IN

BIOPHARMA NEW ABOUT JoVE FOR LIBRARIANS PUBLISH VIDEO JOURNAL SCIENCE EDUCATION

SCIENCE EDUCATION

CORE NEW

CHEMISTRY

CLINICAL SKILLS

LAB MANUAL NEW

ENVIRONMENTAL SCIENCES

PSYCHOLOGY

BASIC BIOLOGY

PHYSICS

ADVANCED BIOLOGY

ENGINEERING

VIDEOS MAPPED TO YOUR TEXTBOOK NEW

RECOMMEND JoVE TO A LIBRARIAN

MOST POPULAR SCIENCE EDUCATION VIDEOS

PHYSICAL EXAMINATIONS II

Lymph Node Exam

ELECTRICAL ENGINEERING

Electrical Safety Precautions and Basic Equipment

ENVIRONMENTAL MICROBIOLOGY

Determination of Moisture Content in Soil

PHYSICS II

Electric Charge in a Magnetic Field

Approfondimento e studio da remoto: Classroom (3)



Embedding JoVE videos in Google Classroom

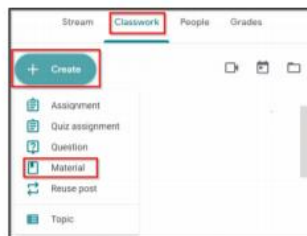


Below you'll find a few simple steps on how to share JoVE videos with your students in Google Classroom.

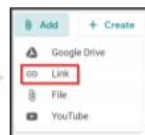
- Log into your JoVE account and find the video you would like to share
- Click on the **Embed** button underneath the video player and get to "EMBED A JoVE VIDEO" page



- Copy the **src url**, which is underlined in red in the example above
- Login to Google Classroom, click on **Classwork**, **Create**, and then **Material**



Give the video a **Title**,
click **Add**, and select **Link**



- Paste in the **src** copied from the Embed page and click **Add link**
- Click **Post** in the upper right corner. Students should now see the link in Google Classroom



For any additional information or help please contact us at customersuccess@jove.com.

≡ Biology 2

What is Biology?

Timothy Raymond Apr 17 (Edited Jun 3)



Embedded JoVE Video: Wha...
<https://www.jove.com/embed/pl...>

Class comments



Add class comment...

Modalità di autoverifica: i JoVE Test

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Create a JoVE Test

Title

test1

Choose a title to grab the attention of your students

Field of Study

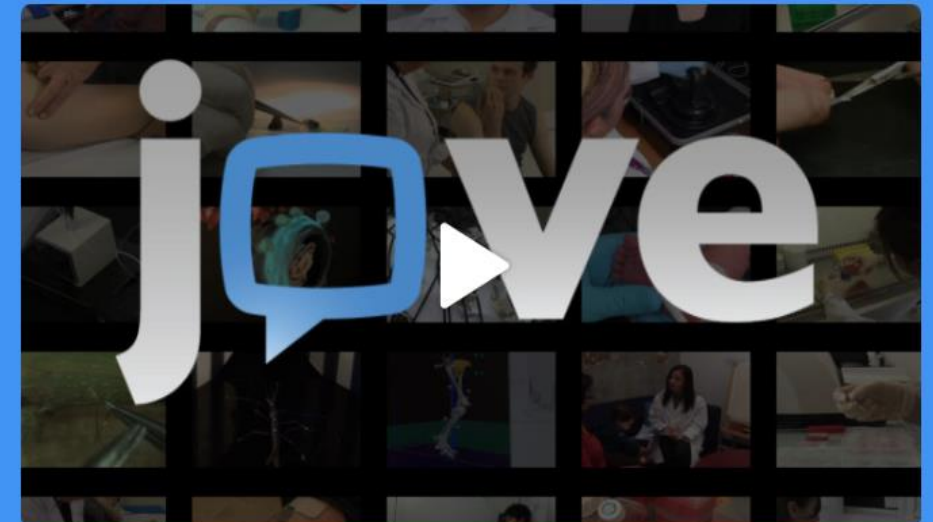
Selected: Structural Engineering

Choose a Subject

Selected: Fatigue of Metals

Question 1

In which case can metal fatigue occur?



Video Article

Fatigue of Metals

I JoVE Test sono integrabili in Moodle



newsite

Bio

Participants

Badges

Competencies

Grades

General

Quiz Load

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Site home

Calendar

Private files

My courses

Bio

NDL

Mol Bio

Intro to Biology

Dashboard / My course: My course Question bank / Questions

Questions Categories Import Export

Question bank

Select a category: Chapter_01_Scientific_Inquiry_Quiz_Questions (24)

No tag filters applied

Filter by tags...

☐ Show question text in the question list

Search options

☒ Also show questions from subcategories

☐ Also show old questions

Create a new question ...

1 2

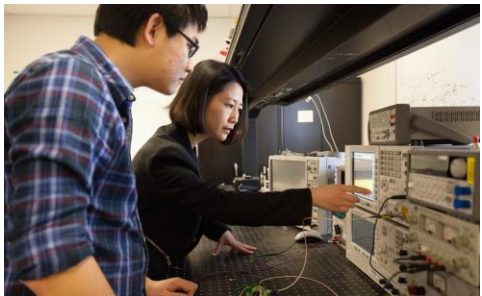
Question	Created by	Last modified by
	First name / Surname / Date	First name / Surname / Date
From the hypothesis that all fish shoot water at the	Jove Test 4 September 2019, 4:30 PM	Jove Test 4 September 2019, 4:30 PM
From the hypothesis that fish shoot water at their	Jove Test 4 September 2019, 4:30 PM	Jove Test 4 September 2019, 4:30 PM
From the hypothesis that garlic powder deters slug	Jove Test 4 September 2019, 4:30 PM	Jove Test 4 September 2019, 4:30 PM
In a relationship between two variables in an experi	Jove Test 4 September 2019, 4:30 PM	Jove Test 4 September 2019, 4:30 PM

0:36 / 1:26

Vantaggi di JoVE Education



- I video **potenziano le lezioni tradizionali**: il docente utilizza i video come supporto a lezione per **mostrare concetti e metodologie altrimenti di difficile comprensione da parte degli studenti**;
- I video suggeriti dai docenti possono anche essere consultati dagli studenti **da remoto**;
- I video favoriscono le **flipped classroom**: gli studenti si preparano a casa su un argomento che viene poi trattato a distanza di giorni in aula;
- L'utilizzo dei video di JoVE contribuisce a **incrementare il coinvolgimento, la fiducia e la preparazione degli studenti**;
- I video di JoVE possono essere utilizzati come **pre/post-lab assignment**: poter visualizzare una tecnica e la teoria che vi è dietro, prima di entrare in laboratorio, **aumenta la confidenza e la successiva performance in laboratorio**;
- I video di JoVE sono un ottimo strumento da parte dei docenti che forniscono una parte del loro corso in modalità **blended**;
- Tutti i video di JoVE sono facilmente **integrabili negli LMS come Moodle e utilizzabili in live streaming con gli studenti attraverso i video conference tools**;
- **JoVE Research & Education Specialist**: **mapping del syllabus** e informazioni su come **integrare in pochi istanti i video negli LMS**.



Grazie per l'attenzione

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