What is JoVE?

**JoVE** is the world's first and only peer reviewed and PubMed Indexed scientific video journal.

JoVE has published over 5,000 video articles from institutions including Harvard, Stanford, MIT, and the NIH.

These video articles present cutting-edge research in over a dozen fields of scientific study and are viewed by millions of users in over 900 institutions around the globe.
JoVE’s Solutions

**JoVE Journal**
The first scientific video journal dedicated to help scientists advance their research by increasing productivity, efficiency, and reproducibility.

**Science Education**
An innovative video database that is dedicated to teaching laboratory fundamentals through simple, easy-to-understand video demonstrations.
JoVE Journal

- Peer-reviewed by our prestigious editorial board
- Indexed in PubMed, Medline, SciFinder, etc.
- Over 5000 articles – 90 new video articles published each month
- Customized subscription model by section (13 sections)
- Over 16,000 published authors from top institutions worldwide
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Journal Search & Results

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Protocol

Ethics statement: All animal work, including husbandry, breeding and sacrifice was approved by Memorial Sloan Kettering Cancer Center’s Institutional Animal Care and Use Committee (IACUC), protocol #03-12-017.

1. Embryo Collection

Note: All animal work must have been approved by institutional and local authorities and conform to local and institutional rules.

1. Mate a virgin female mouse with a fertile stud male of the desired genotypes.
   Note: If setting up natural matings, selecting females in the estrus phase of the estral cycle increases the chances of copulation on the desired date. If inducing superovulation, please refer to the protocols described in [10].

2. Check the presence of a vaginal plug in the morning using a blunt probe. Ideally, do this before noon (12:00 pm), as copulation plugs are lost throughout the day. Consider noon of detection of the vaginal plug embryonic day (E)0.5.

3. On the desired day and time of embryonic development, warm up M2 or flushing holding medium (FHM) to RT or, preferably, 37 °C. Note: Either M2 or FHM can be used for flushing and handling embryos. When not in use, store these media at 4 °C. Estimate the use of ~2 ml of medium for each uterus.

- Cite this Article
- Abstract
- Introduction
- Protocol
- Results
- Discussion
- Materials List
- References

* You can download a PDF of the text article
Journal Article Structure

1. Abstract
2. Introduction
3. Protocol
4. Results & Discussion
Journal Publication Process

1. Author
2. Submission and Peer-Review
3. Filming (1 day)
4. Video Editing
5. Publishing
Journal Benefits

- Increase **research productivity** and **reproducibility**
- **Quickly onboard** new lab trainees
- **Save money and resources** for labs
- Learn **gold-standard and newest methods**

“Methods are complex and can only partially be described in words. Seeing the method performed immediately provides a wealth of information to the viewer. This information conveys a realistic idea of how the method is done, what is needed to do it, and helps the viewer analyze how they should proceed.”

Dr. Michele Calos, Stanford University
Science Education (SE)

- Laboratory Fundamentals
- Simple, Easy to Understand Video Demonstrations
- Engaging Animations
- 300 professionally produced core videos with over 40 hours of tutorial content
- Video content maps directly to classes
- Flipped Classroom Tool
- JoVE Quiz Testing Tool
SE Volumes & Collections

**Basic Biology**
- General Laboratory Techniques
- Basic Methods in Cellular and Molecular Biology
- Essentials of Biology 1: yeast, Drosophila and C. elegans
- Essentials of Biology 2: Mouse, Zebrafish, and Chick

**Advanced Biology**
- Essentials of Neuroscience
- Essentials of Developmental Biology
- Essentials of Genetics
- Essentials of Cell Biology

**Clinical Skills**
- Essentials of Physical Examinations I
- Essentials of Physical Examinations II

**Psychology**
- Essentials of Behavioral Science
- Essentials of Experimental Psychology
- Essentials of Cognitive Psychology
- Essentials of Developmental Psychology

**Environmental Sciences**
- Essentials of Environmental Science
- Essentials of Environmental Microbiology
- Essentials of Earth Science

**Chemistry**
- Essentials of General Chemistry
- Essentials of Organic Chemistry
- Essentials of Analytical Chemistry
Introduction to the Bunsen Burner

1. Search Bar
2. JoVE Quiz
3. Timeline And Overview
4. Closed Captioning
5. Printable PDF Transcript
SE Quiz Creation (step 1)

1. Select the collection you wish to create a quiz for and then select the article title.
2. Enter the email addresses or listserv address of the quiz taker(s).
SE Quiz Creation (Step 2)

3. These are preset questions written by our in-house scientists who have put together the collections. You can add, edit, or remove these questions here. Select the correct answer if you are customizing the quiz.

4. You may also include an image for reference by clicking "Choose File" and selecting your image.

5. Confirm and preview your quiz before sending it out to the recipients in (2).
SE Benefits

- **Increased speed of learning** in laboratory and classroom environments
- **Saved time and work for teaching faculty**
- Consistent **growth in student success**, learning outcomes, and **STEM retention**
- Support both undergraduate and graduate instruction

"Initially it took multiple tries, whereas now when we teach this technique with the JoVE video we have a success rate between 90 to 100 percent."

Dr. Carrie Northcott
Michigan State University
JoVE Account Creation (Off-Campus Access)

1. Sign in with your institutional email OR create an account.
2. Fill out mandatory fields.
3. Optional fields that maximize your JoVE experience.
4. Enter the CAPTCHA
5. Click "Create Account" and you're done!
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