

# JOVE SCIENCE EDUCATION

JOVE

Videos Make Science Easy

JOVE

SCIENCE EDUCATION

Videos that teach  
key concepts and  
fundamental techniques

Learn more at [JoVE.com](http://JoVE.com)

# JOVE SCIENCE EDUCATION

Инновационная библиотека  
обучающих видео роликов

дает ключевые фундаментальные техники с  
помощью простых для понимания видеороликов

Охватывает широкий диапазон предметных  
областей

В области медицины и естественных и точных  
наук.

- Видеоролики сняты профессиональными видеографами
- Понятная анимация
- Инструкции к выполнению лабораторных работ
- Детализированное текстовое сопровождение
- Коллаборация с ведущими мировыми вузами
- Новые коллекции пополняются ежеквартально





Detailed transcriptions

**joVE** Journal of Visualized Experiments www.jove.com  
 Science Education Collection  
**An Introduction to Cell Division**  
 URL: <http://www.jove.com/science-education/5440>

**Abstract:**  
 Cell division is the process by which a parent cell divides and gives rise to two or more daughter cells. It is a means of reproduction for single-cell organisms. In multicellular organisms, cell division contributes to growth, development, repair, and the generation of reproductive cells (sperm and eggs). Cell division is a tightly regulated process, and...

**Transcript:**  
 Cell division is a process by which one cell produces two or more daughter cells. In multicellular organisms, like us, the same process of division is critical to understanding how disruption of this process...

The video presents a brief history of discoveries in the field of cell division, and showcases some present-day applications. Let's start by reviewing some landmark studies that laid the foundation for our understanding of cell division.

The existence of cells was first reported in the 1600s by Antonie van Leeuwenhoek, who used a microscope to observe and describe the first microorganisms. He called them "animalcules" and "animalcules" were the first living organisms ever observed. Later, in the 1830s, Matthias Schleiden and Rudolf Virchow discovered that all living organisms are made of cells. Schleiden's discovery was that all plants are made of cells, and Virchow's discovery was that all cells come from pre-existing cells. This led to the formulation of the cell theory, which states that all living organisms are made of cells, and that all cells come from pre-existing cells.

## SCIENCE EDUCATION BY THE NUMBERS

8 серий  
 38 коллекций  
 570 видео роликов

Clearly animated concepts

# JoVE Science Education Benefits Teaching Faculty and Students:

# JoVE Science Education Benefits



Помощь в обучении студентов при лабораторных практиках 1-3 курсов



Облегчает и ускоряет учебный процесс

Облегчает процесс запоминания материала

ОСНОВЫ  
БИОЛОГИИ

УГЛУБЛЕННЫЙ  
КУРС БИОЛОГИИ

ХИМИЯ

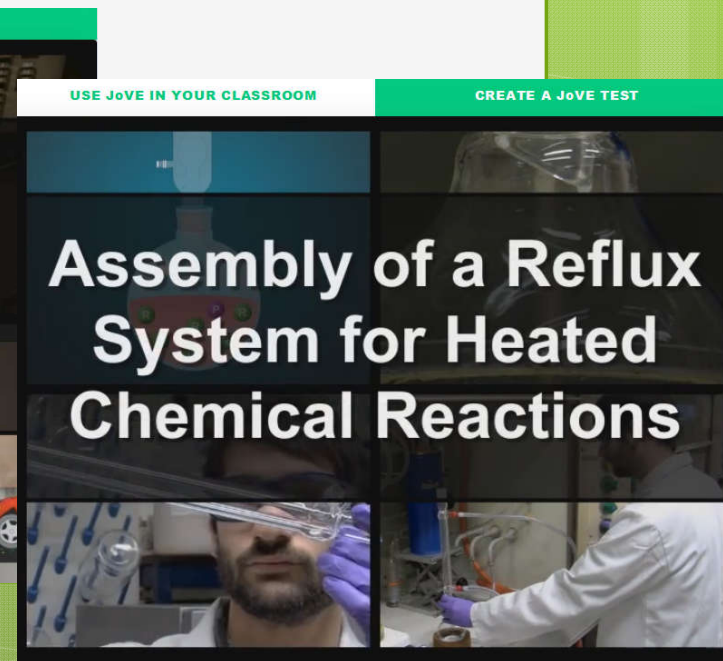
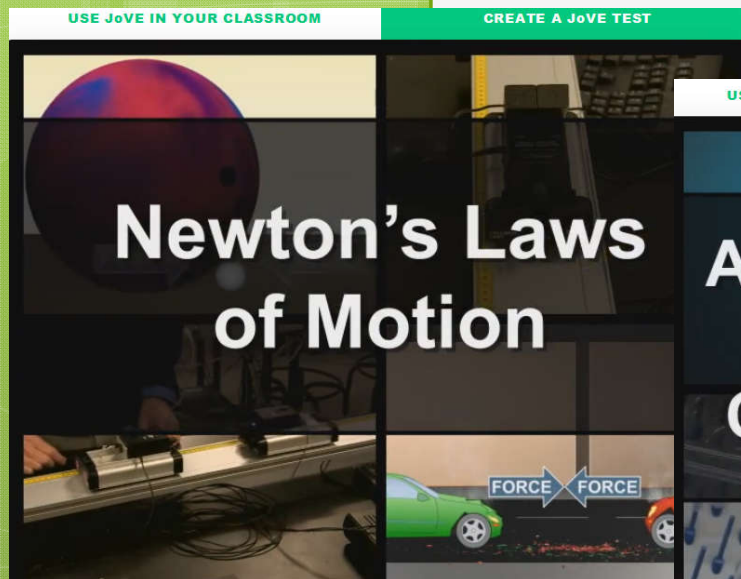
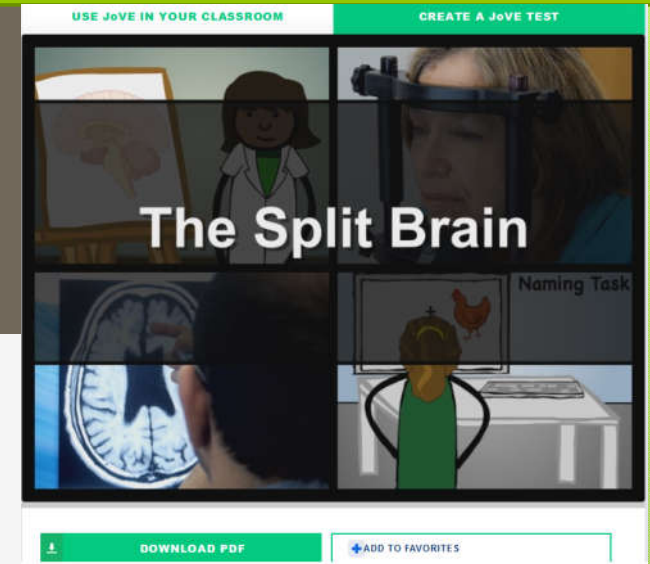
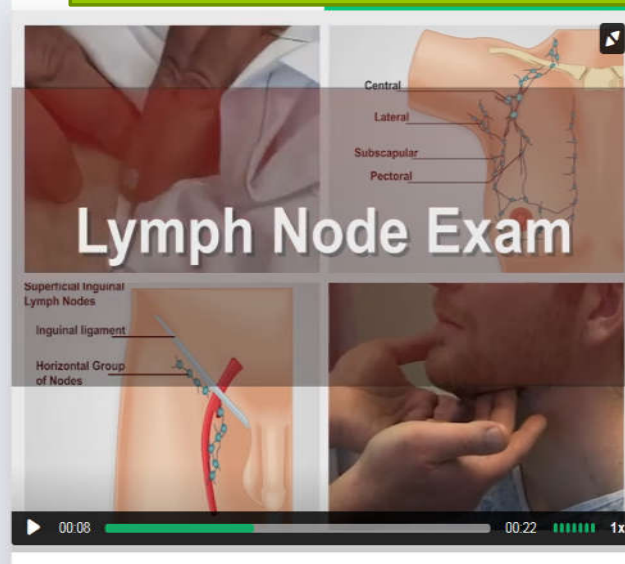
ФИЗИОЛОГИЯ

НАУКИ О ЗЕМЛЕ

ИНЖЕНЕРНОЕ  
ДЕЛО

ФИЗИКА

ТЕРАПЕВТИЧЕС-  
КАЯ ПРАКТИКА



# Структура видеостатьи

- 1 Название видеоролика
- 2 Jove в классе ( новая функция)
- 3 Возможность создания тестирования для оценки знания студентов
- 4 Тип доступа ( по подписке или ОА)
- 5 Переход к определенным разделам статьи
- 6 Скачать PDF
- 7 Добавление в избранные
- 8 Добавление роликов на сторонние ресурсы
- 9 Возможность делиться видеоконтентом с коллегами

The screenshot shows the Jove website interface for an article titled "An Introduction to Endocytosis and Exocytosis". The page includes a search bar, navigation tabs (ABOUT JOVE, FOR EDUCATORS, VIDEO LIBRARY, RECENT FEATURES, CONTACT), and a main content area. A large diagram of a cell is shown with a play button and a label "Vesicle". Below the diagram are buttons for "DOWNLOAD PDF", "ADD TO FAVORITES", "EMBED", and "Share". A "TRANSLATE TEXT TO:" section is also visible. On the right, there is a table of contents with sections like "Overview", "A Brief History of the Field", "Key Questions", "Prominent Methods", "Applications", and "Summary". At the bottom of the page, there are buttons for "Evolution: Analyzing 3D Structures" and "Cell Surface: Biomimetics Design".

- 1 Article title
- 2 "USE JOVE IN YOUR CLASSROOM" button
- 3 "CREATE A JOVE TEST" button
- 4 "THIS ARTICLE HAS ACCESS" button
- 5 Table of contents
- 6 "DOWNLOAD PDF" button
- 7 "ADD TO FAVORITES" button
- 8 "EMBED" button
- 9 "Share" button
- 10 "SUMMARY" section
- 11 "CITE THIS VIDEO" section

- 10 Краткий обзор статьи

- 11 Цитирование видео

# Публикационная активность

NORTH AMERICA

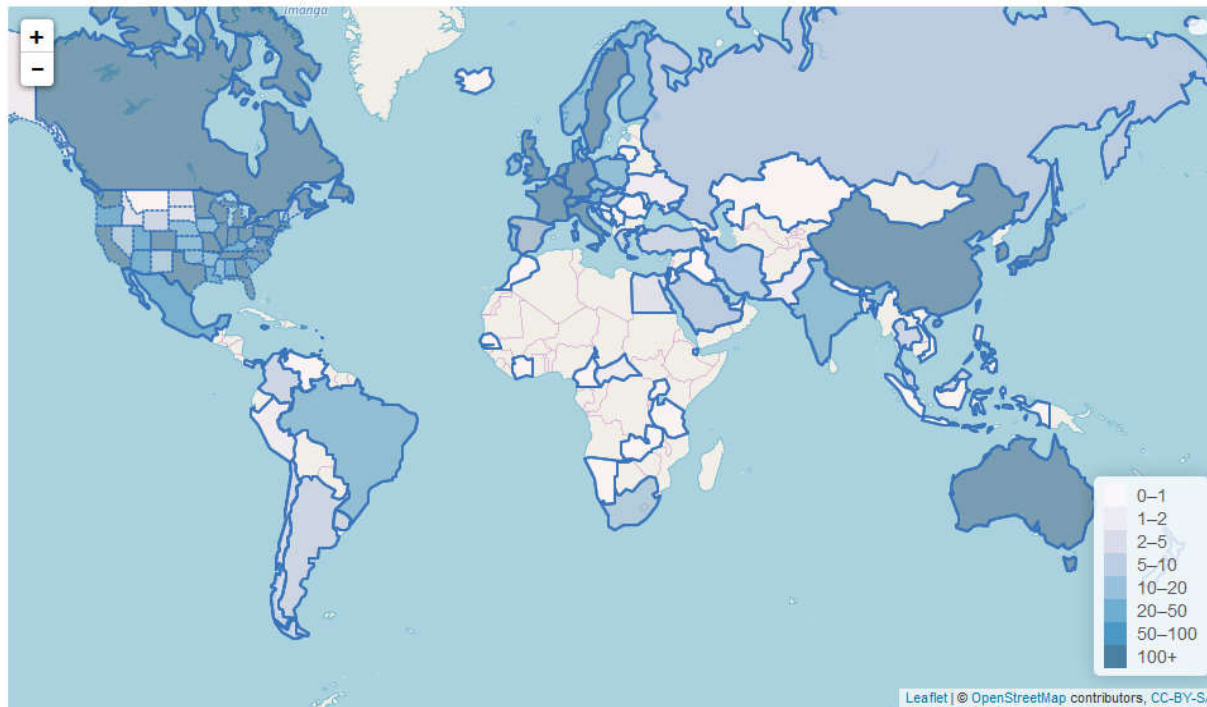
SOUTH AMERICA

EUROPE

AFRICA

ASIA

AUSTRALIA



# Публикационная активность

ALL CONTRIBUTING INSTITUTIONS

EUROPE

RUSSIAN FEDERATION

## RUSSIAN FEDERATION

5 ARTICLES FROM 5 INSTITUTIONS

Engelhardt Institute of Molecular  
Biology  
1 published article

Federal Research Center of Pediatric  
Hematology  
1 published article

Institute of Catalysis, CSIC  
1 published article

Novosibirsk State University  
1 published article

State Research Institute of Physiology  
and Basic Medicine  
1 published article

