



**Accelerate Your Science
Research And Education**



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과정 수료



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DGIST 대구경북과학기술원 이학박사
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카카오톡 채널 추가하는 방법



카카오톡 실행하기

검색창에 채널명 입력하기

채널 추가하기



JoVE Korea



2019



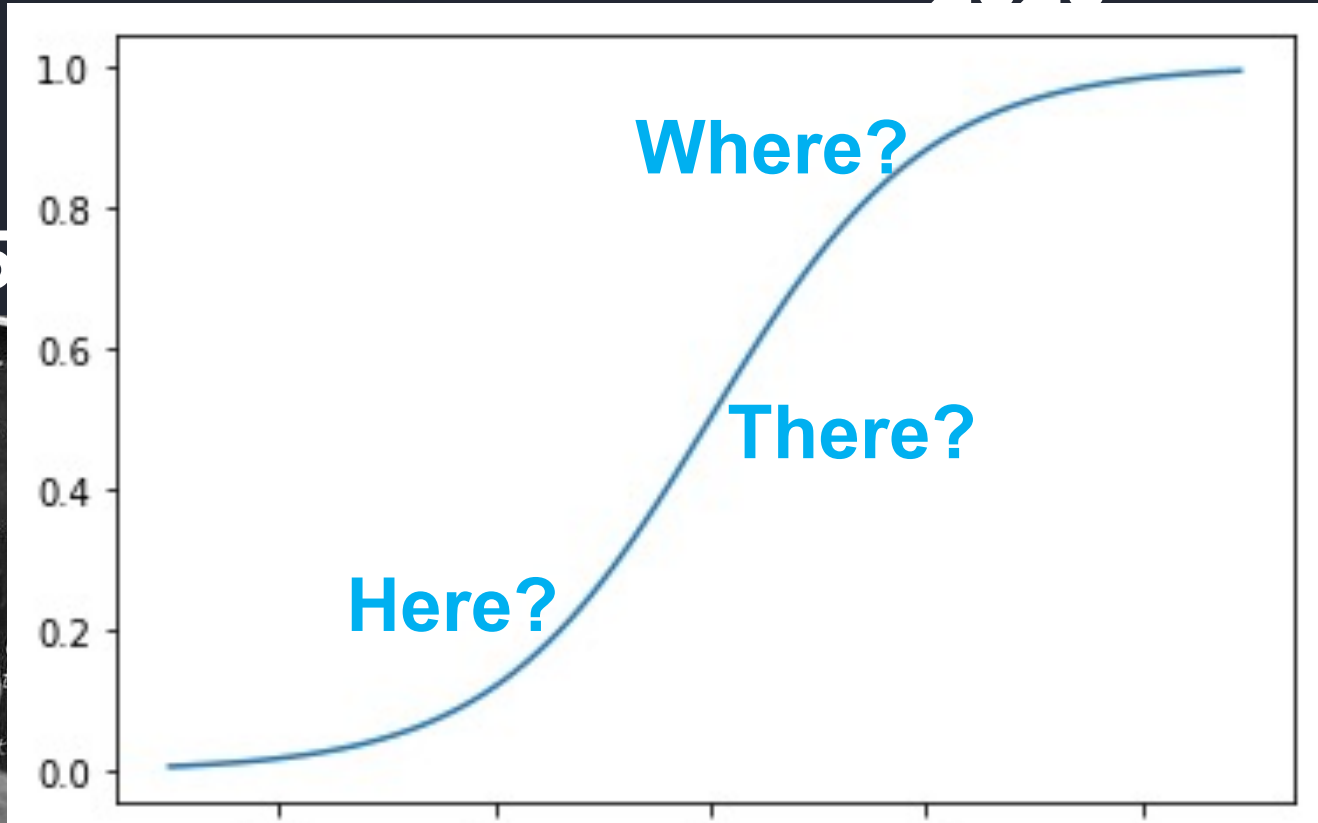
2020



How about 2022 ?

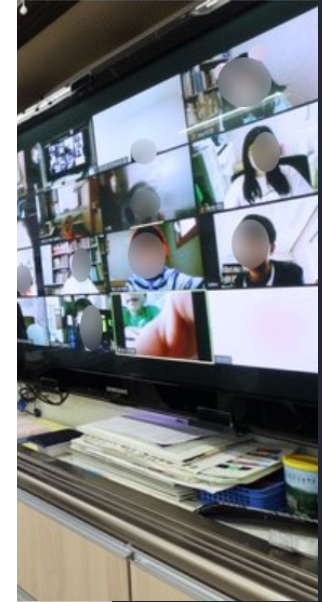
2020

~1995



$$\frac{dc_1}{dt} = E_0 C_1$$

$$\frac{dc_2}{dt} = E_0 C_2$$



~1999



2021~



What is JoVE?

JoVE 인지도

- 세계 상위 50개 기관: **86%** (JoVE 저널) **62%** (JoVE SE) 구독 중

Ref: QS World University Rankings

(<https://www.topuniversities.com/university-rankings/world-university-rankings/2020>)

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Nobel Laureate JoVE Authors



Jack Szostak



2009 Nobel Prize Winner



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Frances Arnold



2018 Nobel Prize Winner



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2005 Nobel Prize Winner



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<주요 내용 요약>

1. JoVE research의 활용
 - 실험 프로토콜의 검색
 - JoVE Methods collections
2. JoVE Education의 활용
 - JoVE Core / Lab Manual / Science Education
 - JoVE contents의 학교 LMS에 업로드

분당차병원에서 JoVE의 접속 1



분당차병원 의학도서관 http://cha.futurenuri.co.kr/

 CHA 안암병원 분당차병원 의학도서관 소장자료검색 DB 바로가기 도서관서비스 MY LIBRARY 도서관 안내

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공지사항 +

08
2020. 12

공지 [도서관] 이용교육 다시보기

[2020 도서관 온라인 교육 다시보기] No 날짜 요일 시간 강의명 강사 다시 보기 1 04월 16일 목 14:00-15:00 Web of science : SCI급 논문 검색 기 초 교육 함소영 ...

작성자 분당차병원 | 등록일 2020.12.08 | 조회수 108

공지 [홈페이지] 회원가입 안내

2018-12-10

[온라인교육] JoVE(Journal of Visualized Experiments) 다...

2021-04-09

[온라인 교육] JoVE(Journal of Visualized Experiments)

2021-04-06

[온라인교육] EndNote 20 교육 다시보기

2021-04-01

[온라인교육] EndNote 20

2021-03-29

분당차병원에서 JoVE의 접속 1



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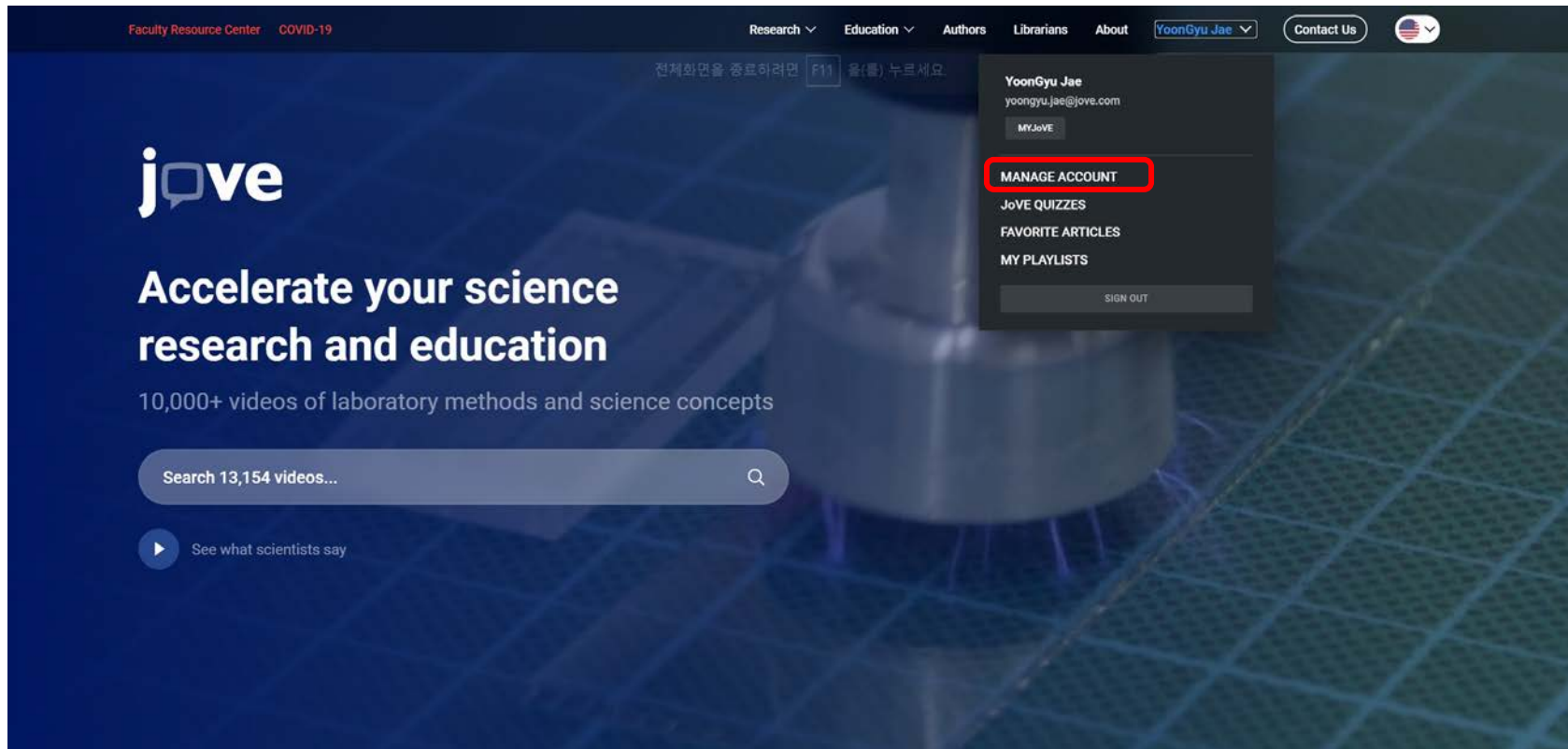
기타정보

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1	PubMed	PubMed 분당차병원에서 구독 중인 전자저널 원문 Link 제공		▶ 바로가기
2	AccessPharmacy	AccessPharmacy McGraw-Hill 출판사의 Harrison's Principles of Internal Medicine 외 80종 의학도서 제공		▶ 바로가기
3	CINAHL	CINAHL 간호학 및 보건학 관련 서지정보 3,000여 종, 원문 760여 종 제공		▶ 바로가기
4	ClinicalKey	ClinicalKey ebooks, Journals, Clinical Reviews, Images, Videos, Drug Information, Medline 등 제공 * 모바일 이용 가능(매뉴얼 참고) * eBook PDF 다운로드 시, 개인 회원가입 및 로그인 필요		▶ 바로가기
5	Cochrane Library	Cochrane Library 의료중재의 효과와 관련된 Evidence를 제공하는 데이터베이스로 Systematic Review를 제공하며, 임상실험, 방법론, 의료기술 및 경제성 평가를 할 수 있음		▶ 바로가기
6	DynaMed Plus	DynaMed Plus 임상질의에 적용할 수 있는 임상근거자료(EBM)제공 데이터베이스 * 모바일 App 이용 가능 (원래 PC에서 ID 등록 필요)		▶ 바로가기
7	JoVE	JoVE Journal of Visualized Experiments (JoVE) - Neuroscience 실험 및 연구방법에 대한 요약, 초록, 실험 계획안, 실험 결과, 실험 도구 목록, 참고문헌 등을 비디오, HTML, PDF 형식으로 제공		▶ 바로가기

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- ☐ JoVE Core Social Psychology
- ☐ [JoVE Core Molecular Biology \(NEW\)](#)

- ☐ Lab Manual: Biology
- ☐ Lab Manual: Chemistry

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Journal (Neuroscience)

Obtaining Human Microglia from Adult Human Brain Tissue

Ishan Agrawal¹, Shivanjali Saxena¹, Preethika Nair¹, Deepak Jha², Sushmita Jha¹

¹Department of Bioscience and Bioengineering, Indian Institute of Technology Jodhpur, ²Department of Neurosurgery, All India Institute of Medical Sciences, New Delhi



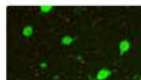
Journal (Neuroscience)

Methods Collections

Primary Microglia Isolation from Postnatal Mouse Brains

Siling Du^{1,2}, Shanshan Xiong^{2,3}, Xiangjuan Du⁴, Yi-Fei Yuan¹, Bo Peng^{3,4,5}, Yanxia Rao¹

¹Shanghai Key Laboratory of Psychotic Disorders, Shanghai Mental Health Center, Shanghai Jiao Tong University School of Medicine, ²Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, ³Department of Neurosurgery, Huashan Hospital, MOE Frontiers Center for Brain Science, Fudan University, ⁴Co-innovation Center of Neuroregeneration, Nanjing Medical University, ⁵Department of Neurology, Fudan University



Journal (Immunology and Infection)

Primary Microglia Isolation from Mixed Glial Cell Cultures of Neonatal Rat Brain Tissue

Tami T. Tamashiro¹, Clifton Lee Dalgard^{1,2,3}, Kimberly R. Byrnes²

¹Neuroscience Program, Uniformed Services University, ²Department of Anatomy, Physiology, and Genetics, Uniformed Services University of the Health Sciences, ³Department of Neurology, University of Maryland



Journal (Neuroscience)

Selective Depletion of Microglia from Cerebellar Granule Cell Cultures Using L-leucine

Joseph Jebelli¹, Thomas Piers², Jennifer Pocock³

¹Department of Neurology, University of Washington, ²Therapeutic Innovation Group, School of Life and Medical Sciences, University of London, ³Department of Neurology, University of Washington



Journal (Neuroscience)

Isolation and Culture of Mouse Cortical Astrocytes

Sebastian Schildge¹, Christian Bohrer¹, Kristina Beck², Christian Schachtrup¹

¹Institute of Anatomy and Cell Biology, University of Freiburg, ²Centre of Chronic Immunodeficiency (CCI), University Medical Center, University of Freiburg



Journal (Immunology and Infection)

Concomitant Isolation of Primary Astrocytes and Microglia for Protozoa Parasite Infection

검색결과 약 162,000개 (0.41초)

도움말: 한국어 검색결과만 검색합니다. 환경설정에서 검색 언어를 지정할 수 있습니다.

microglia primary culture jove에 대한 학술자료

Primary microglia isolation from mixed glial cell ... - Tamashiro - 100회 인용

Isolation of highly enriched primary human microglia ... - Rustenhoven - 54회 인용

... refined CD11b magnetic isolation of primary microglia ... - Sarkar - 12회 인용

<https://www.jove.com> > ...

Characterization and Isolation of Mouse Primary ... - JoVE

2018. 2. 16. — 기본 microglia의 절연의 일반적으로 사용 되는 방법 자력 분리와 혼합 glial 문화의 장기간 멸고 있습니다. 개인적인 경험을 통해 자기 열을 저지 한 ...

<https://www.jove.com> > ...

Primary Microglia Isolation from Mixed Glial Cell ... - JoVE

2012. 8. 15. — This protocol describes a mechanical isolation and mixed cell culture technique that provides high yield and high purity, viable primary microglial ...

<https://www.jove.com> > isolation-culture-rodent-microg...

Isolation and Culture of Rodent Microglia to Promote a ... - JoVE

HY Collins 저술 · 2018 · 7회 인용 — They play vital roles in development and homeostasis of the brain through synaptic pruning, apoptotic cell clearance, and transient interactions ...

<https://www.jove.com> > primary-microglia-isolation-fro...

Primary Microglia Isolation from Postnatal Mouse ... - JoVE

2021. 2. 25. — Primary cell culture is one of the primarily used approaches for studying microglial biology in vitro. Here, we developed a method for...



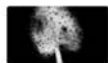
Primary Microglia Isolation from Mixed Glial Cell Cultures of ...

JoVE

2012. 8. 15.

Research

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In Vivo 2-Photon Calcium Imaging in Layer 2/3 of Mice

Authors | Journal (Biology)

Two-photon imaging of Intracellular Ca^{2+} Handling and Nitric Oxide Production in Endothelial and Smooth Muscle Cells of an Isolated Rat Aorta

Authors | Journal (Biology)

In Vivo Calcium Imaging in *C. elegans* Body Wall Muscles

Authors | Journal (Biochemistry)

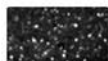


Measurement of Calcium Fluctuations Within the Sarcoplasmic Reticulum of Cultured Smooth Muscle Cells Using FRET-based Confocal Imaging

Authors | Journal (Biology)

Monitoring ER/SR Calcium Release with the Targeted Ca^{2+} Sensor CatchER*

Authors | Journal (Biology)

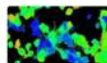


Functional Calcium Imaging in Developing Cortical Networks

Authors | Journal (Neuroscience)

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Education



검색결과 약 118,000개 (0.42초)

수정된 검색어에 대한 결과: calcium imaging jove

다음 검색어로 대신 검색: calcium imaging jove

calcium imaging jove에 대한 학술자료

Calcium imaging of cortical neurons using Fura-2 AM - Barreto-Chang - 104회 인용

Sensory discrimination of blood and floral nectar by ... - Jové - 4회 인용

Two-photon calcium imaging in mice navigating a ... - Leinweber - 51회 인용

<https://www.jove.com> > calcium-imaging-in-neurons

Calcium Imaging in Neurons | Protocol - JoVE

Calcium indicator dyes are modified chelator molecules, such as Fura-2, that are composed of two main components. The first is the chelator site that binds ...

동영상



Successful In vivo Calcium Imaging with a Head-Mount ...

JoVE

2020. 8. 26.



Calcium Imaging of Cortical Neurons using Fura-2 AM | Protocol

JoVE

2009. 1. 19.



Functional Calcium Imaging in Developing Cortical Networks ...

JoVE

2011. 10. 22.



Two-photon Calcium Imaging in Neuronal Dendrites in Brain ...

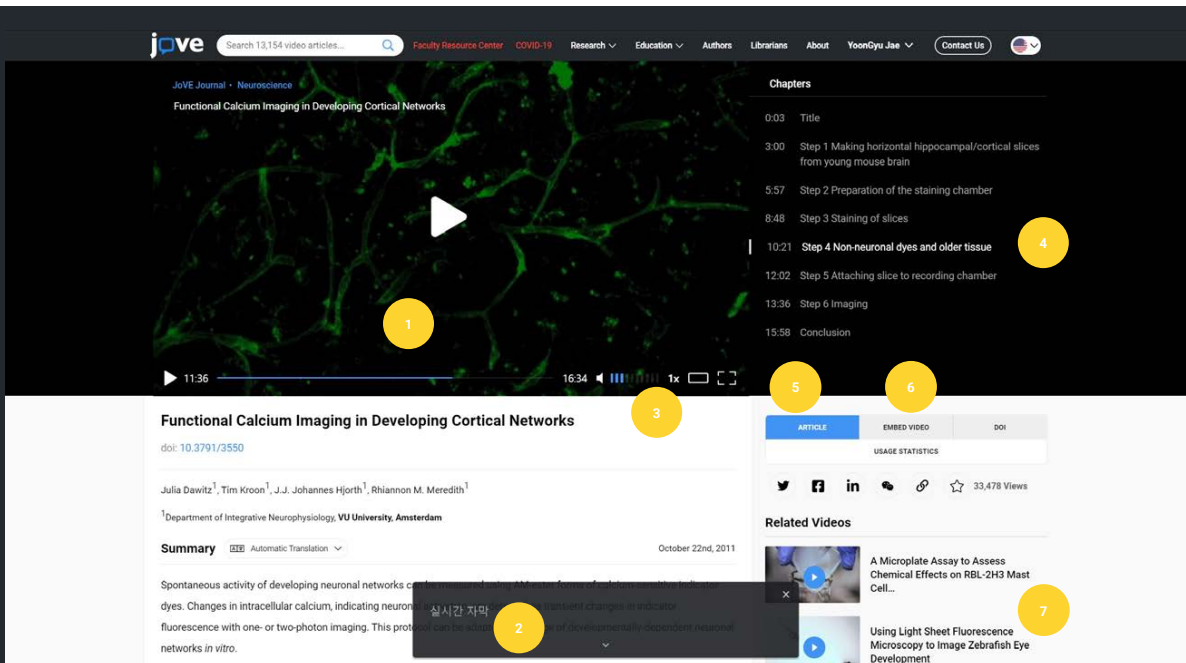
JoVE

2018. 3. 15.



모두 보기

<https://www.jove.com> > browse > tag=calcium-imaging



The screenshot displays the JoVE research article interface. At the top, the JoVE logo and a search bar are visible. The main video player shows a green fluorescent image of neural networks, with a play button in the center. Below the video, the article title "Functional Calcium Imaging in Developing Cortical Networks" is displayed, along with the authors' names and affiliations. The article summary is also visible. On the right side, a "Chapters" list provides a timeline of the video content. Below the main article, a "Related Videos" section suggests additional content. Numbered callouts (1-7) highlight specific features: 1. Video player controls, 2. Video player progress bar, 3. Article title, 4. Chapters list, 5. Article page layout, 6. Embed video button, and 7. Related videos section.

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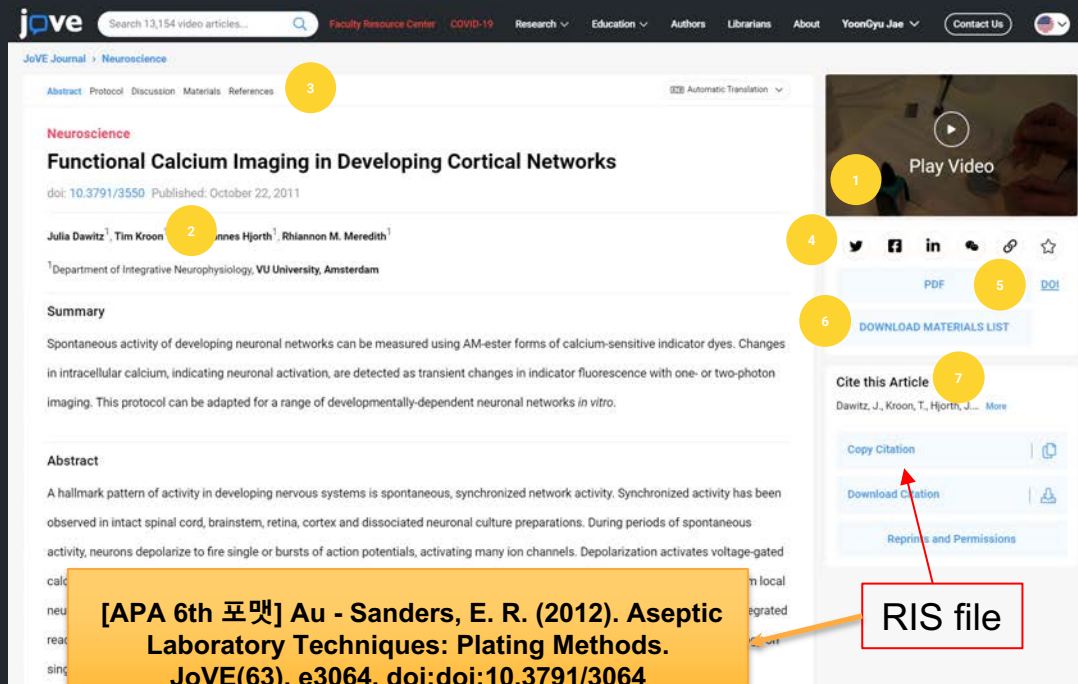
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6

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7

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The screenshot shows a JoVE research article page. Numbered callouts highlight the following features:

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[APA 6th 포맷] Au - Sanders, E. R. (2012). Aseptic Laboratory Techniques: Plating Methods. JoVE(63), e3064. doi:doi:10.3791/3064

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Methods Collections

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Methods in neuronal cell culture

Neurons are the primary cells of the nervous system and are responsible for the distinctive roles of the brain. Understanding the mechanisms that regulate...

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Ramiro Almeida

- 대표적인 연구 fields의 methods를 묶음으로 제공
- 필요한 methods를 추가, 편집 가능
- 랩의 S.O.P를 videoclips 묶음으로 저장, 공유 가능

Minimally invasive pancreatic surgery

Minimally invasive pancreatic surgery is on the rise worldwide. Minimally invasive distal pancreatectomy (MIDP) has been reported to be superior to open...

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Frederique Visser



Safi Dokmak



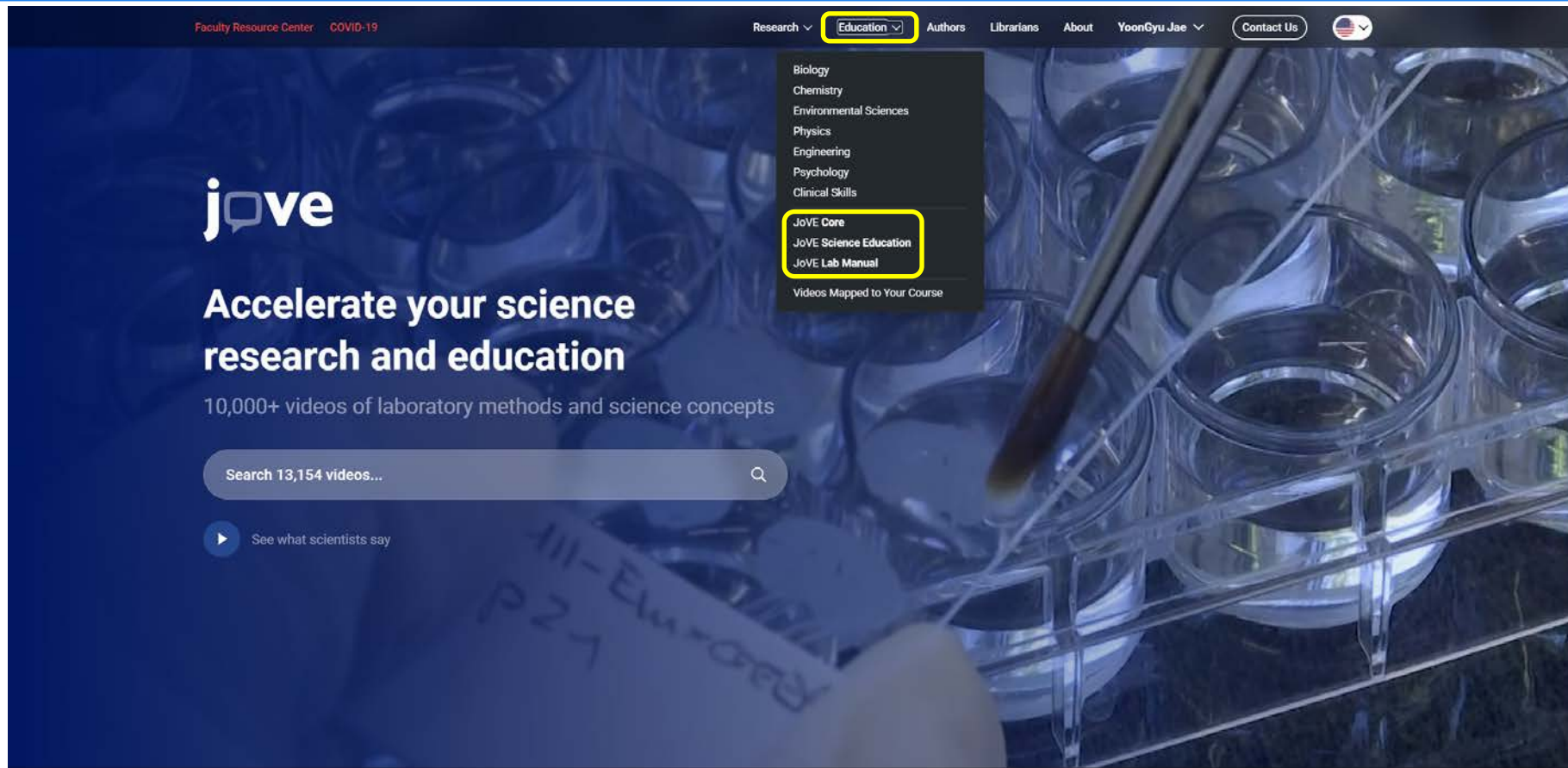
Ugo Boggi




Marc Besselink

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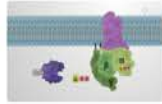
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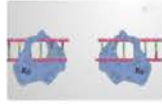
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DNA, Cells, and Evolution



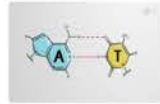
Chapter 4
Protein Function



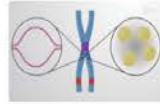
Chapter 7
DNA Repair and Recombination



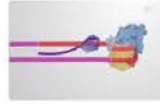
Chapter 10
Gene Expression



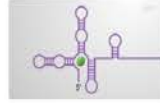
Chapter 2
Biochemistry of the Cell



Chapter 5
DNA and Chromosome Structure



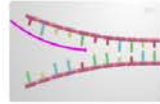
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Transcription: DNA to RNA



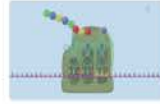
Chapter 11
Additional Roles of RNA



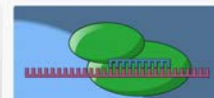
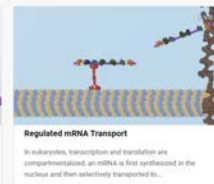
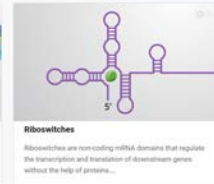
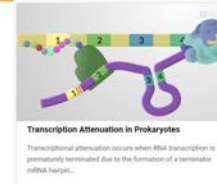
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Protein Structure



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DNA Replication



Chapter 9
Translation: RNA to Protein

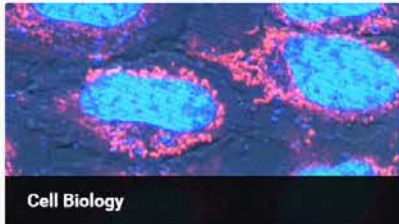


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Developmental Biology

This collection introduces the field of developmental biology and cover five areas: developmental genetics; molecular developmental biology; stem cell biology; organogenesis; and aging and regeneration.



Immunology

This collection covers many staple techniques of immunology labs, including the labeling and sorting of immune cells. It also demonstrates proliferation methods for immune cells and antibodies, as well as common assays for immune activity including ELISA. Finally, it demonstrates staining and imaging of immune tissue and cell samples.



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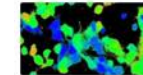
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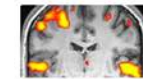
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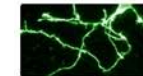
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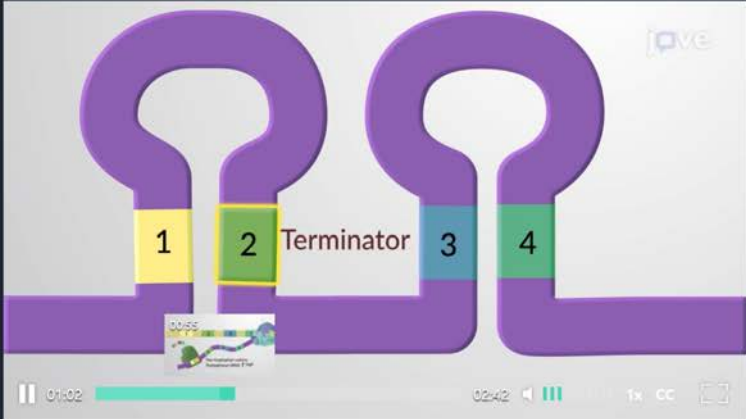
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11: Additional Roles of RNA

11.1: Transcription Attenuation in Prokaryotes

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01:02 02:42

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11.1: Transcription Attenuation in Prokaryotes

Transcriptional attenuation is the early termination with segment 1 instead in bacteria trailing segment 2 to form a

Transcriptional attenuation occurs when... form a terminator mRNA hairpin structure. Bacteria use these hairpins to regulate the trans... and control the synthesis of several amino acids including histidine, lysine

4

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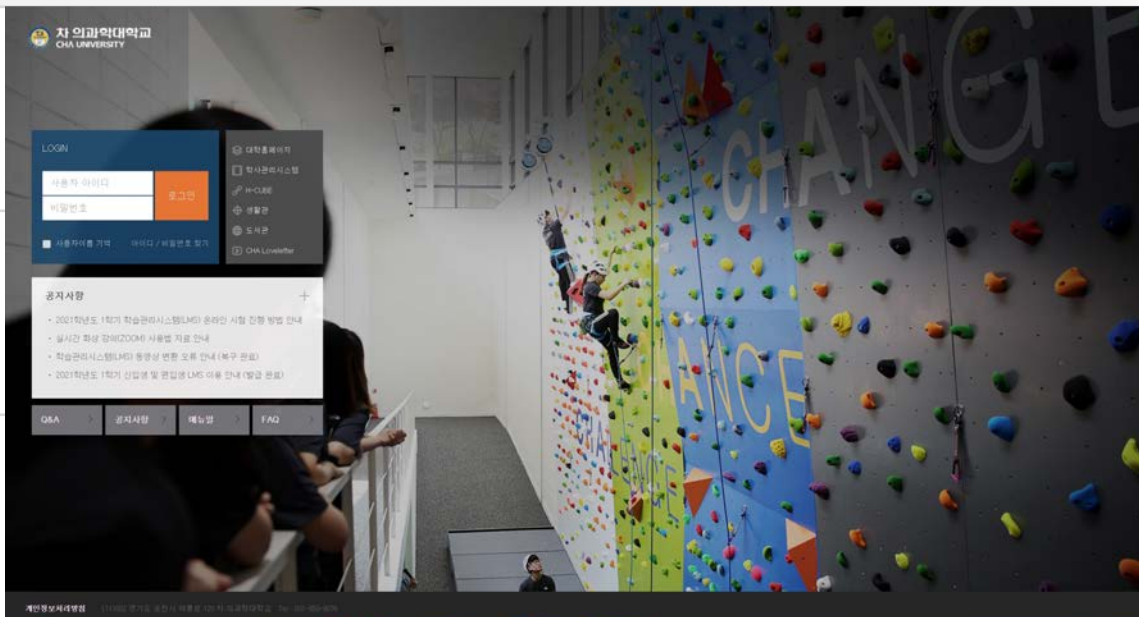
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JoVE Journal • Neuroscience

Functional Calcium Imaging in Developing Cortical Networks

0:03 Title

3:00 Step 1 Making horizontal hippocampal/cortical slices from young mouse brain

5:57 Step 2 Preparation of the staining chamber

8:48 Step 3 Staining of slices

10:21 Step 4 Non-neuronal dyes and older tissue

12:02 Step 5 Attaching slice to recording chamber

13:36 Step 6 Imaging

15:58 Conclusion

11:36 16:34 1x

Functional Calcium Imaging in Developing Cortical Networks

doi: 10.3791/3550

Julia Dawitz¹, Tim Kroon¹, J.J. Johannes Hjorth¹, Rhiannon M. Meredith¹

¹Department of Integrative Neurophysiology, VU University, Amsterdam

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퀴즈 타이틀

Field of Study

Selected: Lab Animal Research

Choose a Subject

Selected: Rodent Handling and Restraint Techniques

Question 1

Which of the following statements describes an important goal while handling or restraining rodents?

Be sure to make your question clear and understandable

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Title

test

Field of Study

Rodent Handling and Restraint Techniques

Question 1

Disable Question

Which of the following statements describes an important goal while handling or restraining rodents?

- ☒ 1. To minimize animal distress and subsequent physiological changes that may affect experimental outcomes.
- ☐ 2. To handle or restrain the animals as tentatively as possible.
- ☐ 3. To handle or restrain the animals as aggressively as possible
- ☐ 4. To minimize costs associated with rodent handling, even if harmful to the animal.

Question 2

Disable Question

One of the most common methods for moving adult rats and mice is lifting the animal by its tail. Why is it imperative to grasp the tail at the base near the rump?

- ☐ 1. It is important to grasp the tail at the base to avoid pinching the tail vein.
- ☐ 2. Grasping the base of the tail minimizes changes in heart rate and blood pressure.
- ☐ 3. Grasping the tail at the end reduces the likelihood of animal escape.
- ☒ 4. If a rodent is lifted by the end of its tail, the skin can be pulled off resulting in a serious and painful tail injury.

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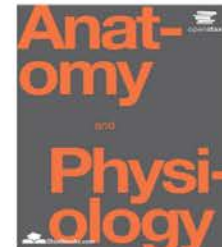
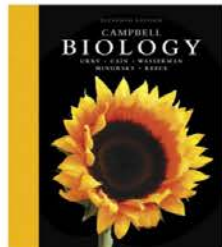
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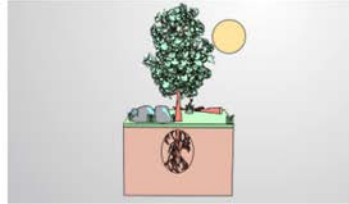
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1.1 The study of life reveals common themes



What is Biology?



Levels of Organization

1.2 The Core Theme: Evolution accounts for the unity and diversity of life



Taxonomy



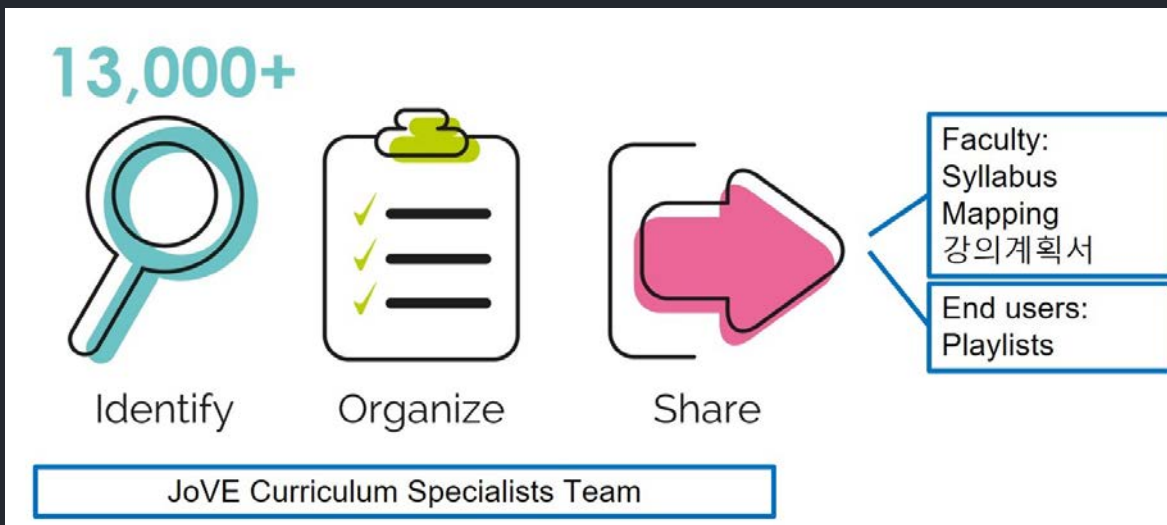
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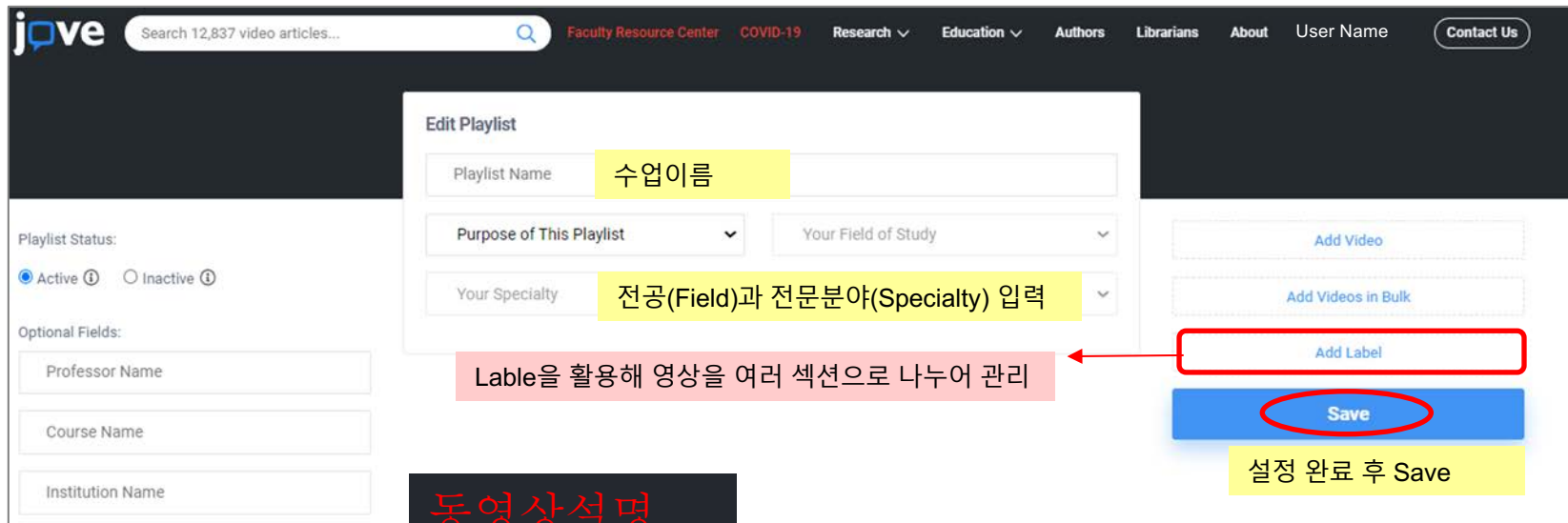
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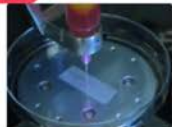
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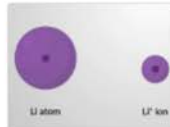
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