Journal of Visualized Experiments

Accelerate Scientific Research and Education

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北京医院 神经外科
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提纲

- JoVE介绍
  - 创建背景：传统杂志的局限性和实验可重复性
  - 杂志特点：视频作为科学期刊的新形式
  - 主要内容：学科专辑和科教视频
  - 应用举例
- 使用体验分享与收获
  - 临床试验：技能
  - 基础实验：原理、操作、应用
- 投稿经验分享

创建背景：传统文献局限性

JoVE CEO:
Dr. Moshe Pritsker

Moshe Pritsker was a young researcher working in a stem cell lab at Princeton. Unable to complete a crucial experiment from text articles alone and without any local colleagues to show him the intricate steps, he was struck with his “Eureka!” moment: why not complement published experiments with a video showing the steps in vivid detail?

Shortly after finishing his Ph.D., he traded a lab coat for a video camera and JoVE was born, changing 450 years of scientific publishing tradition.

创建背景：可重复性危机

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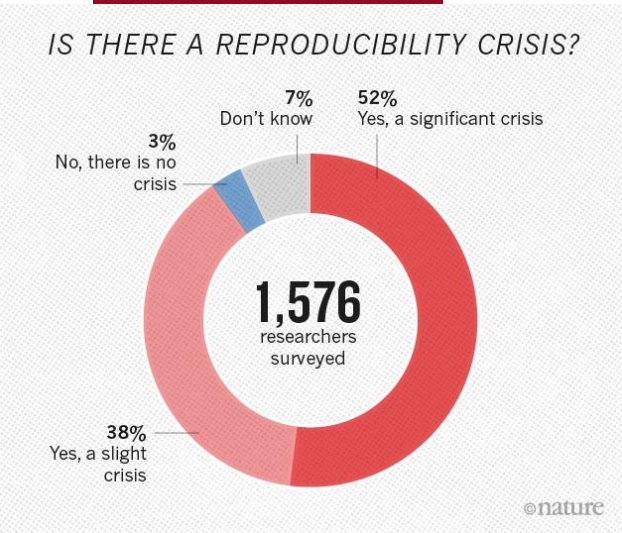
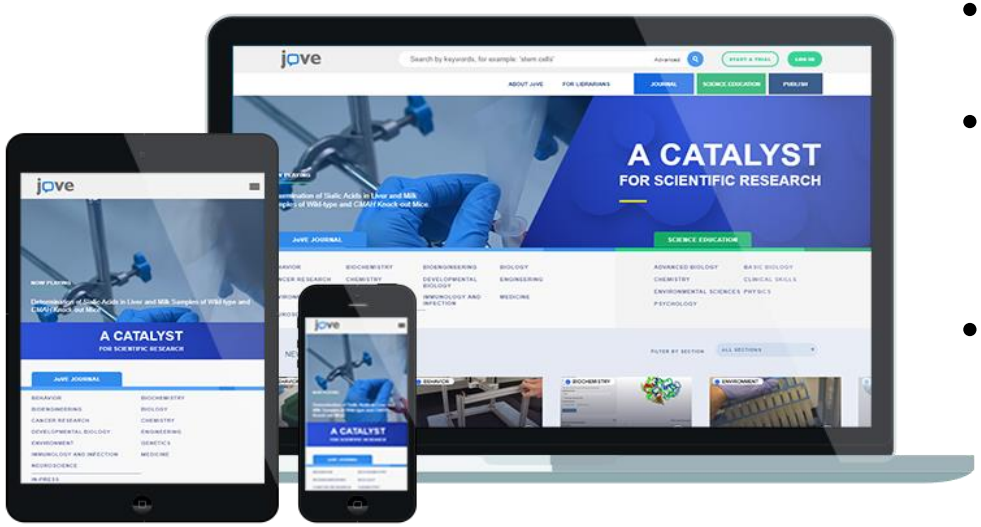


60-90%发表的实验成果无法被有效复制！

JOVE：将视频技术作为科学期刊的新形式



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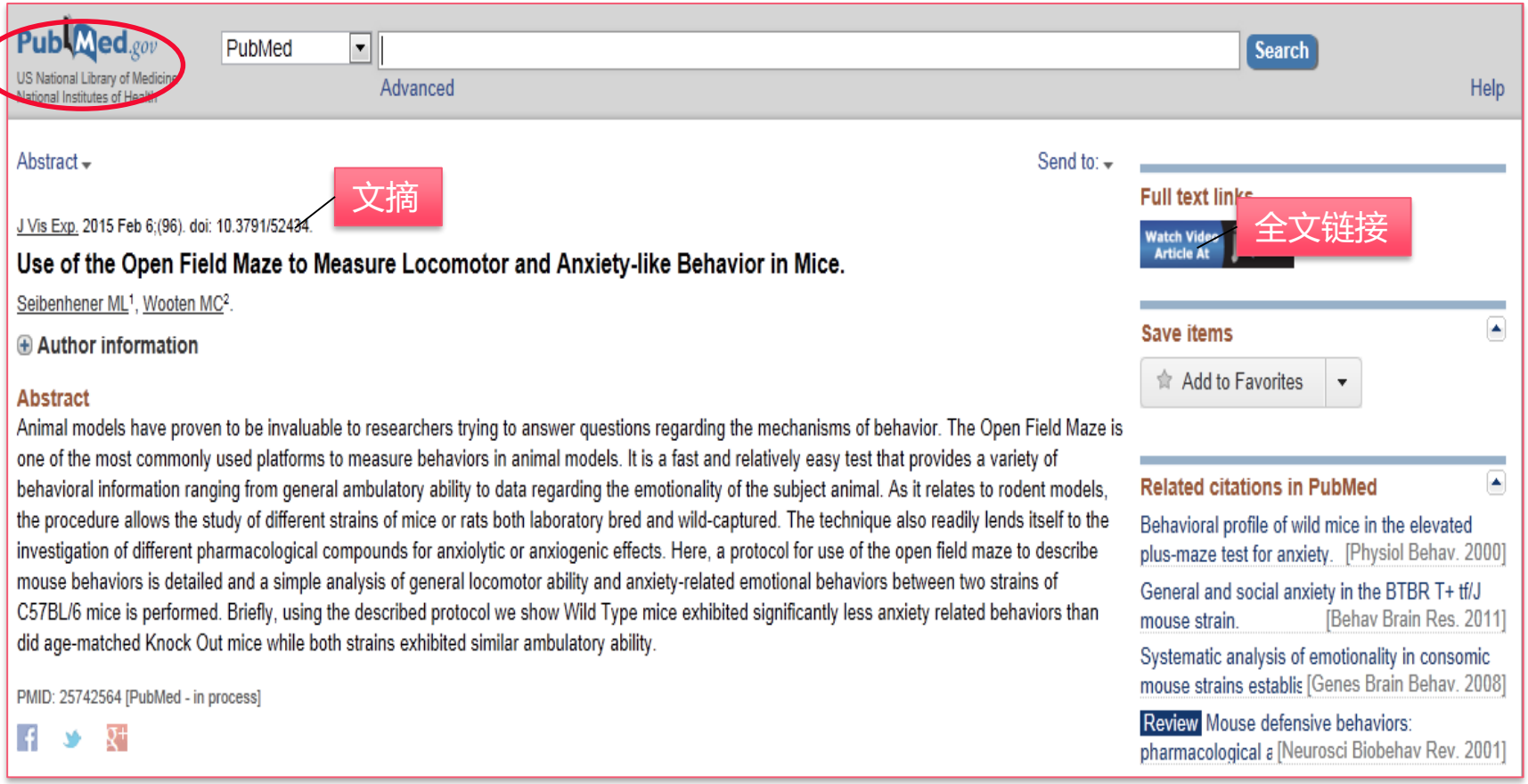
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J Vis Exp. 2015 Feb 6;(96). doi: 10.3791/52434.
Use of the Open Field Maze to Measure Locomotor and Anxiety-like Behavior in Mice.
Seibenhener ML[1], Wooten MC[2].
Author information
Abstract
Animal models have proven to be invaluable to researchers trying to answer questions regarding the mechanisms of behavior. The Open Field Maze is one of the most commonly used platforms to measure behaviors in animal models. It is a fast and relatively easy test that provides a variety of behavioral information ranging from general ambulatory ability to data regarding the emotionality of the subject animal. As it relates to rodent models, the procedure allows the study of different strains of mice or rats both laboratory bred and wild-captured. The technique also readily lends itself to the investigation of different pharmacological compounds for anxiolytic or anxiogenic effects. Here, a protocol for use of the open field maze to describe mouse behaviors is detailed and a simple analysis of general locomotor ability and anxiety-related emotional behaviors between two strains of C57BL/6 mice is performed. Briefly, using the described protocol we show Wild Type mice exhibited significantly less anxiety related behaviors than did age-matched Knock Out mice while both strains exhibited similar ambulatory ability.
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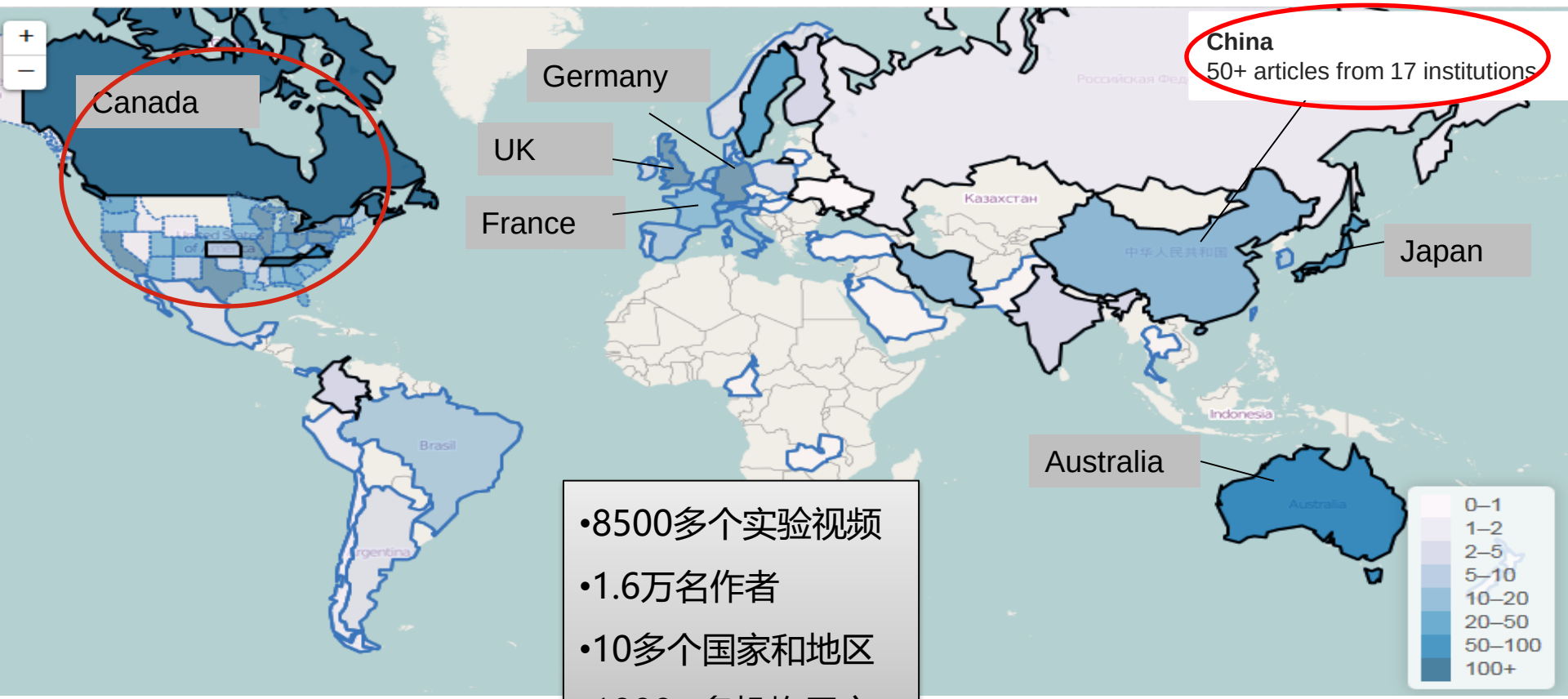

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上述这些机构的学者同时也在利用JOVE进行科研工作。

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5	Chemistry	化学
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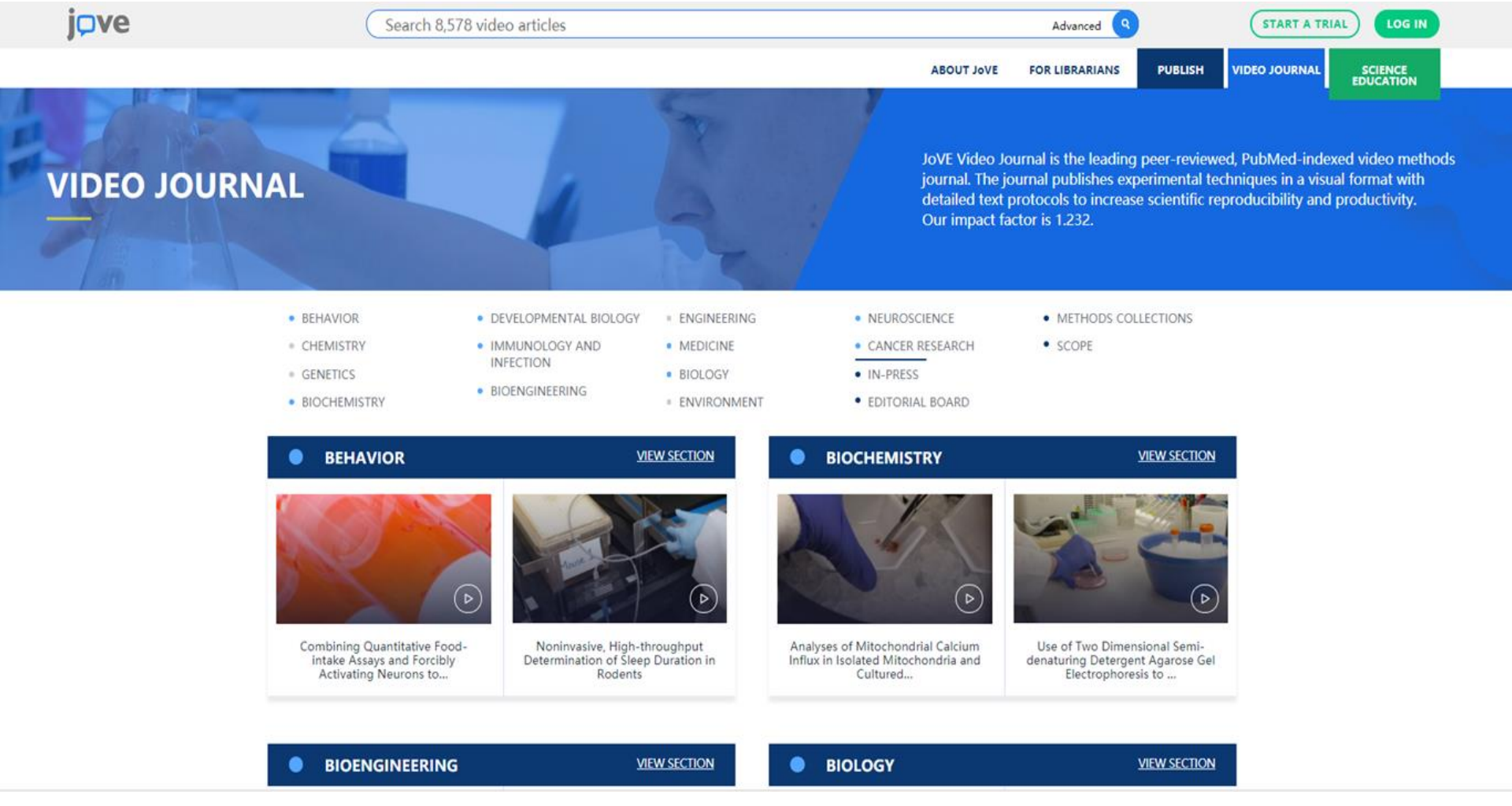

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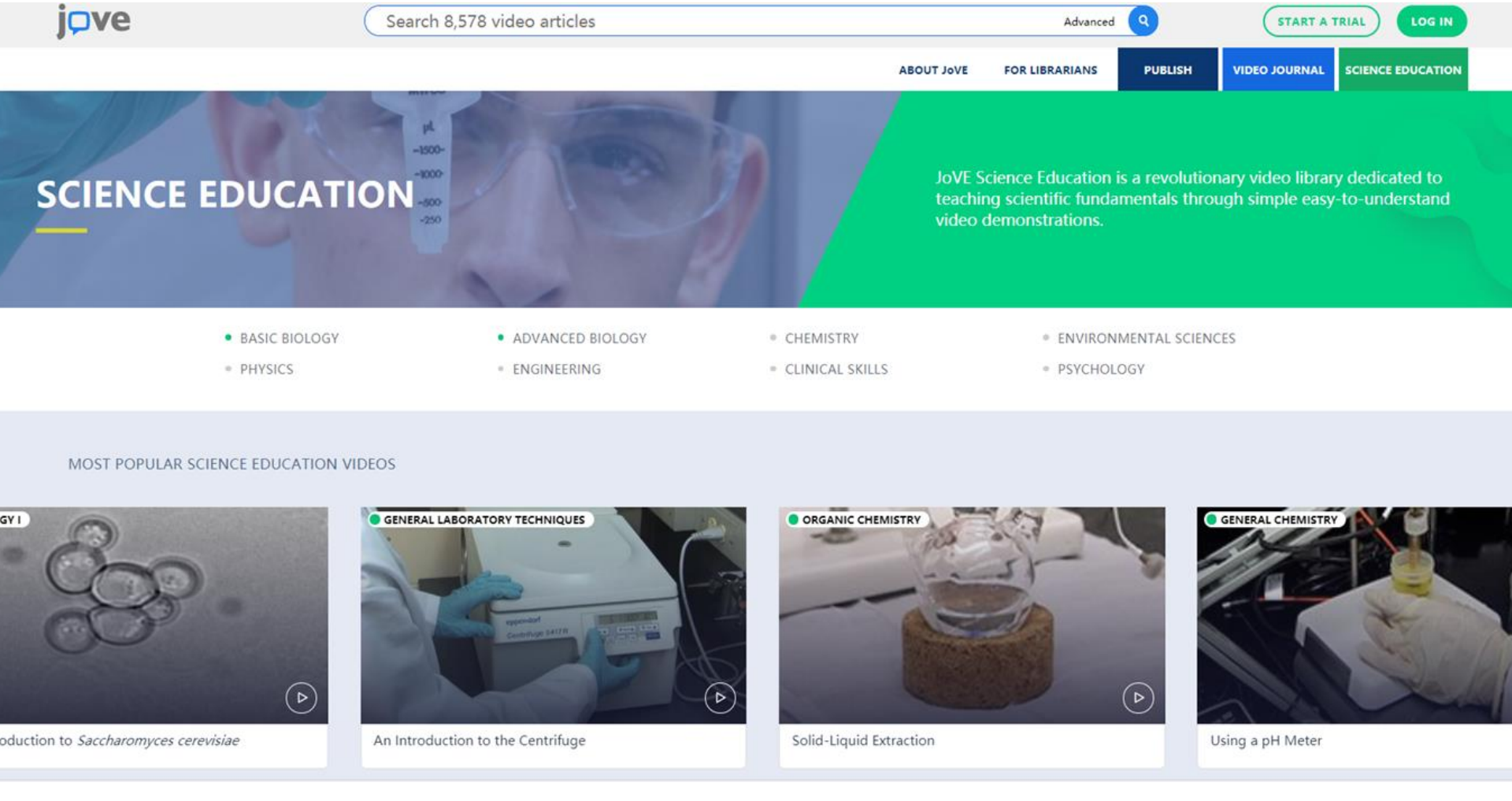

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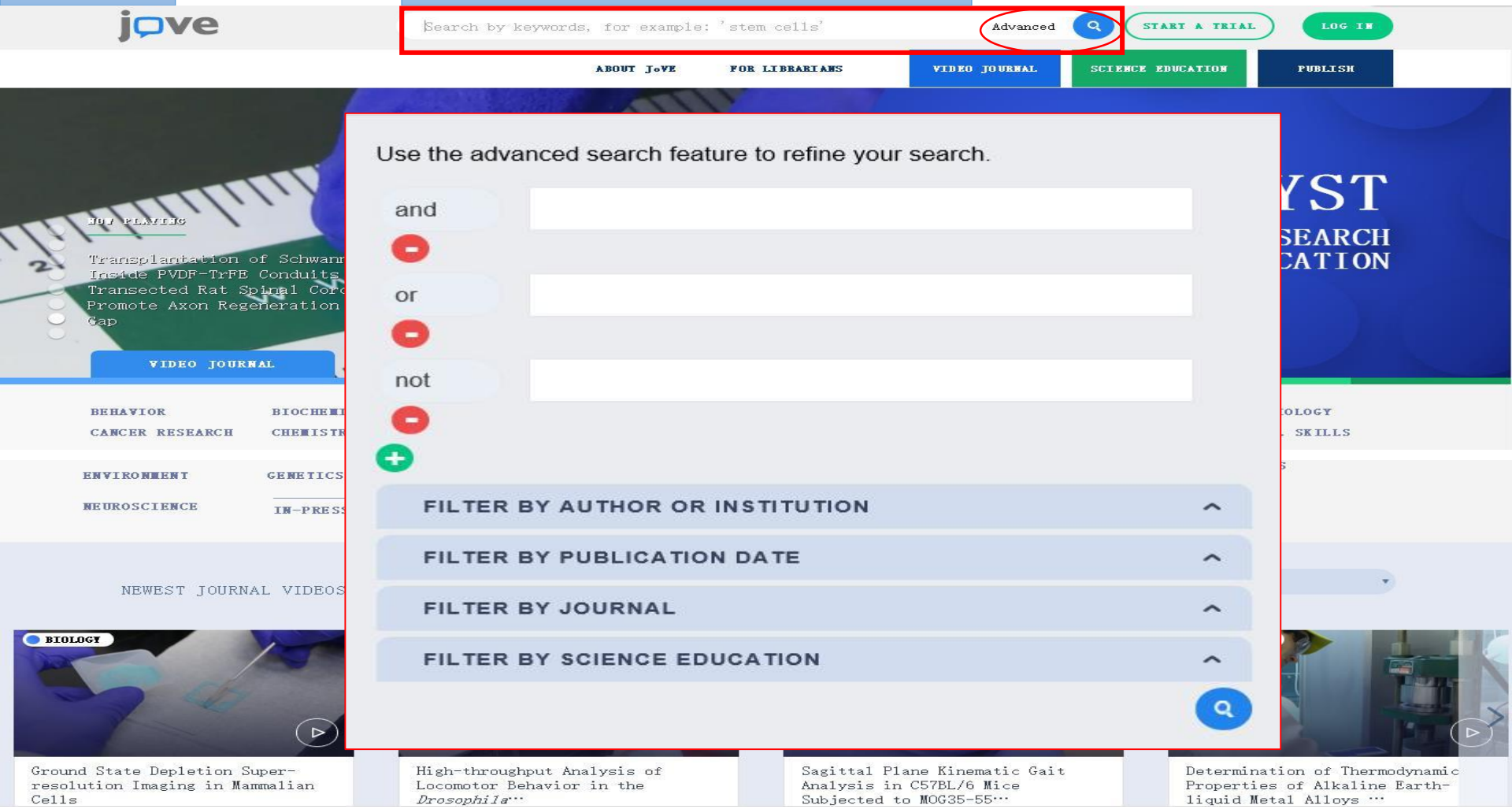

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[1]Huffington Center on Aging, **Baylor College of Medicine**, [2]Pulmonary/Critical Care/Sleep Medicine, **Michael E. DeBakey Veterans Affairs Medical Center**

MEDICINE

Calcification of Vascular Smooth Muscle Cells and Imaging of Aortic Calcification and Inflammation

Caitlin O'Rourke*[1], Georgia Shelton*[1,2], Joshua D. Hutcheson[3,4], Megan F. Burke[2], Trejeeve Martyn[1], Timothy E. Thayer[2], Hannah R. Shakartzi[1], Mary D. Buswell[1], Robert E. Tainsh[1], Binglan Yu[1,4], Aranya Bagchi[1,4], David K. Rhee[2,4], Connie Wu[1,2,4], Matthias Derwall[5], Emmanuel S. Buys[1,4], Paul B. Yu[3,4], Kenneth D. Bloch[1,2,4], Elena Aikawa[3,4], Donald B. Bloch[1,5,6], Rajeev Malhotra[2,4]

[1]Anesthesia Center for Critical Care Research of the Department of Anesthesia, Critical Care, and Pain Medicine, **Massachusetts General Hospital**, [2]Cardiovascular Research Center and Cardiology Division of the Department of Medicine, **Massachusetts General Hospital**, [3]Cardiovascular Division, **Brigham ard Medical School**, [5]Department of Anesthesiology, **Uniklinik RWTH** sity, [6]Center for Immunology and Inflammatory Diseases and the Division Immunology of the Department of Medicine, **Massachusetts General**

MEDICINE

tic Plaque Model to Study Lesion Biology

cu*[1], Mohammadreza Akhavanpoor[1], Li Zhao[1], Susanne Wangler[1], Maani Hakimi[2], Andreas Doesch[1], Thomas J. Dengler[3], Hugo A. Katus[1], Christian A. Gleissner[1]

[1]Department of Cardiology, **University of Heidelberg**, [2]Department of Vascular Surgery, **University of Heidelberg**, [3]Department of Cardiology, **SLK Hospital am Plattenwald**

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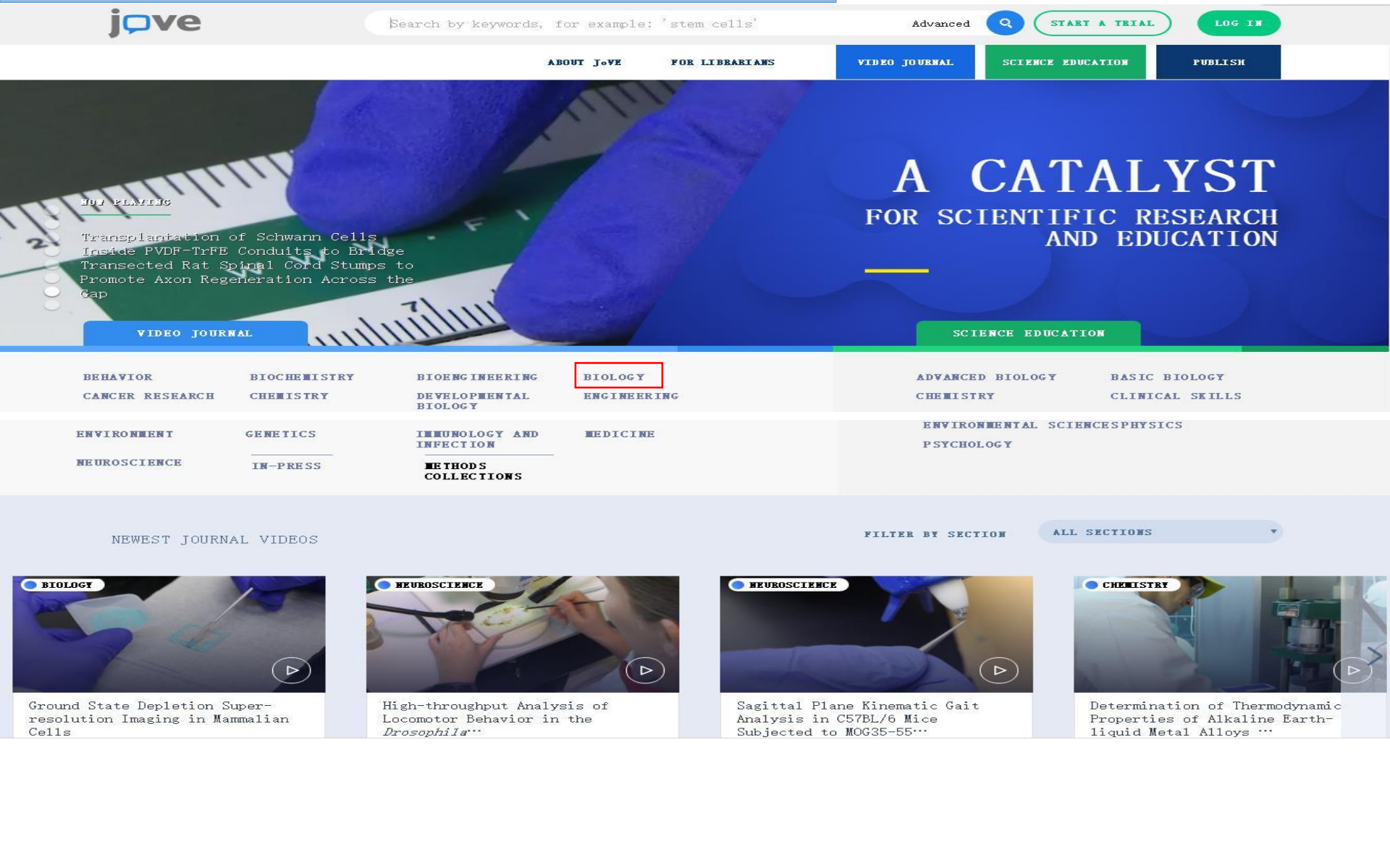

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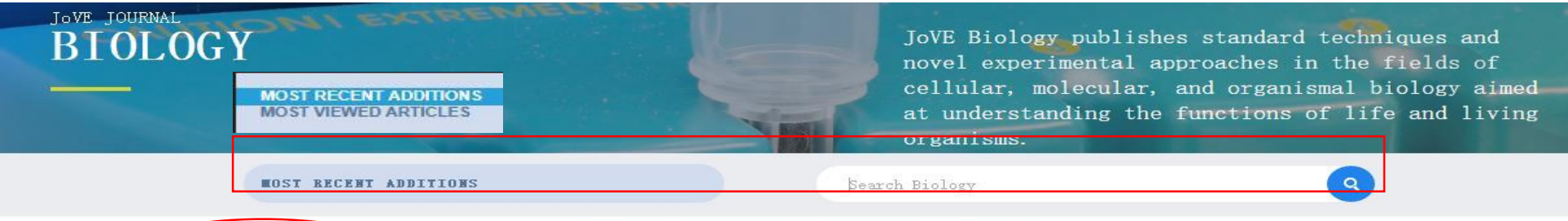

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Ground State Depletion Super-resolution Imaging in Mammalian Cells

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[1]Department of Physiology and Membrane Biology, **University of California School of Medicine, Davis**

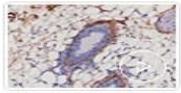
In Vivo Detection and Analysis of Rb Protein SUMOylation in Human Cells

Fengxi Meng*[1,2], Xiaofeng Li*[1,2], Hui Ren[1,2], Jiang Qian[1,2]

[1]Department of Ophthalmology, **Eye and ENT Hospital of Fudan University**, [2]Shanghai Key Laboratory of Visual Impairment and Restoration, **Fudan University**

BIOLOGY

Isolation of Intact, Whole Mouse Mammary Glands for Analysis of Extracellular Matrix Expression and Gland Morphology



Christopher Thompson[1], Katherine Keck[2], Abigail Hielscher[2]

[1]Department of Biochemistry and Molecular Biology, **University of Nebraska Medical Center**, [2]Department of Biomedical Sciences, **CA-PCOM**

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Murine Model of Hindlimb Ischemia

Hiroshi Niiyama[1], Ngan F. Huang[1], Mark D. Rollins[2], John P. Cooke[1]

[1]Division of Cardiovascular Medicine, **Stanford University**, [2]Department of Anesthesiology, **University of California, San Francisco**

BIOLO

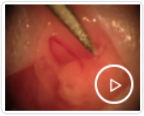
Methods for Acute and Subacute Murine Hindlimb Ischemia

Michael E. Padgett[1], Timothy J. McCord[1], Joseph M. McClung[1], Christopher D. Kontos[1]

[1]Division of Cardiology, Department of Medicine, **Duke University Medical Center**

MEDICI

Murine Spinotrapezius Model to Assess the Impact of Arteriolar Ligation on Microvascular Function and Remodeling



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[1]Department of Biomedical Engineering, **University of Virginia**, [2]Department of Biomedical Engineering, **California Polytechnic Sta University**, [3]Office of Animal Welfare, **University of Virginia**, [4]Department of Biomedical Engineering & Institute for Computational

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Murine Model of Hindlimb Ischemia

Hiroshi Niiyama[1], Ngan F. Huang[1], Mark D. Rollins[2], John P. Cooke[1]

[1]Division of Cardiovascular Medicine, **Stanford University**, [2]Department of Anesthesiology, **University of California, San Francisco**

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Methods for Acute and Subacute Murine Hindlimb Ischemia

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[1]Division of Cardiology, Department of Medicine, **Duke University Medical Center**

MEDICINE

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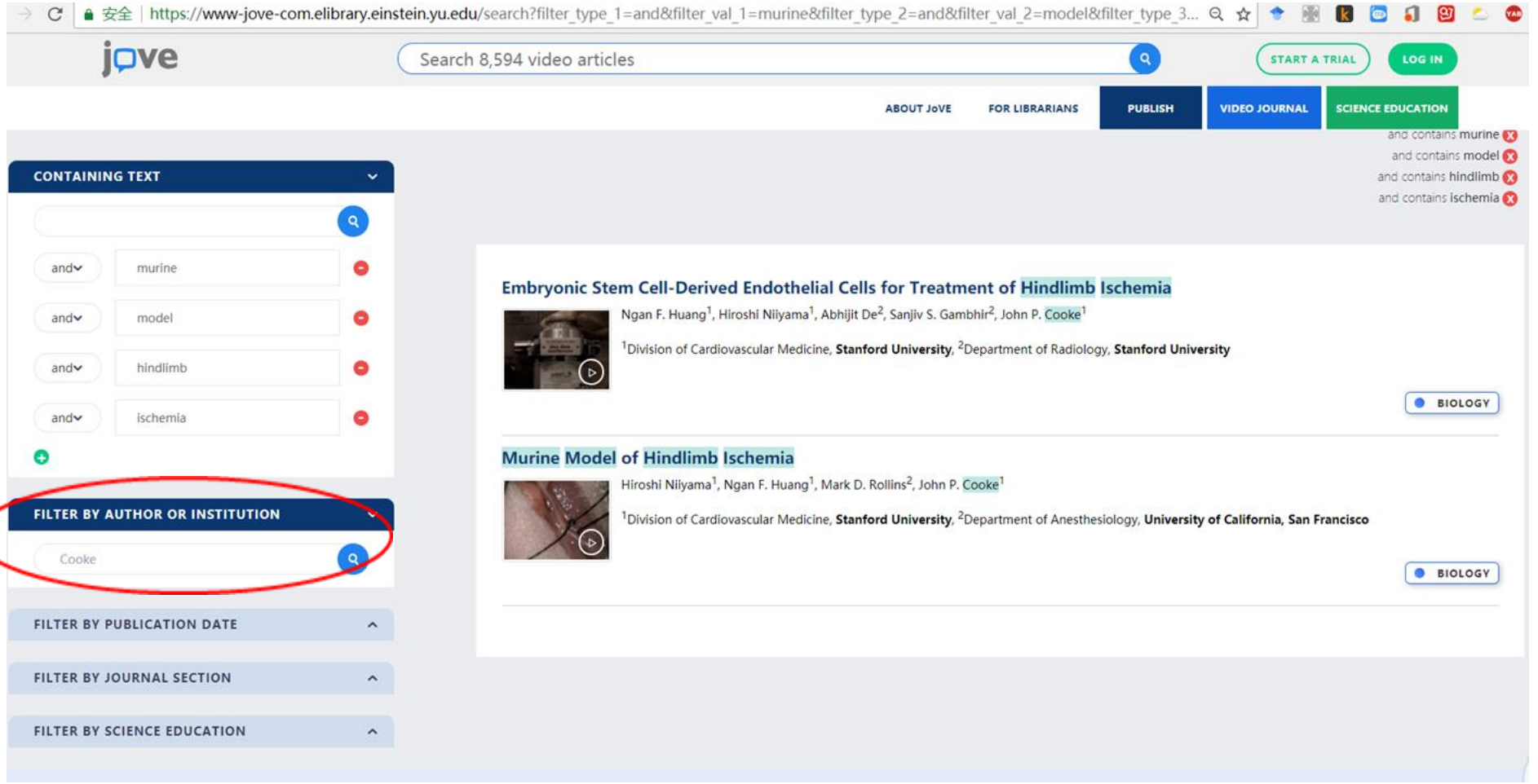
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Embryonic Stem Cell-Derived Endothelial Cells for Treatment of Hindlimb Ischemia
Ngan F. Huang[1], Hiroshi Niiyama[1], Abhijit De[2], Sanjiv S. Gambhir[2], John P. Cooke[1]
[1]Division of Cardiovascular Medicine, Stanford University, [2]Department of Radiology, Stanford University
BIOLOGY
Murine Model of Hindlimb Ischemia
Hiroshi Niiyama[1], Ngan F. Huang[1], Mark D. Rollins[2], John P. Cooke[1]
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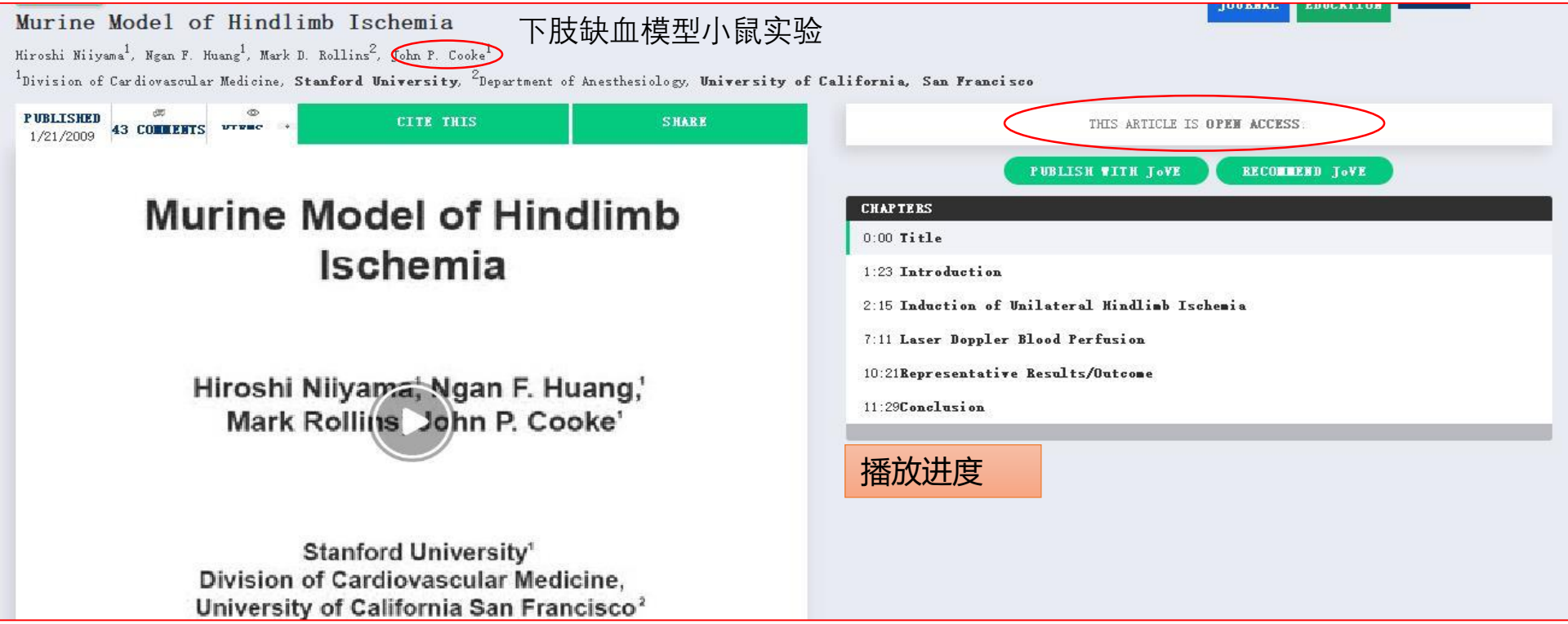

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Murine Model of Hindlimb Ischemia

Hiroshi Niiyama[1], Ngan P. Huang[1], Mark D. Rollins[2], John P. Cooke[1]

[1]Division of Cardiovascular Medicine, Stanford University, [2]Department of Anesthesiology, University of California, San Francisco

The surgical procedure for induction of unilateral hindlimb ischemia is demonstrated, with confirmation of ischemia by laser Doppler perfusion imaging.

Embryonic Stem Cell-Derived Endothelial Cells for Treatment of Hindlimb Ischemia

Ngan P. Huang[1], Hiroshi Niiyama[1], Abhijit De[2], Sanjiv S. Gambhir[2], John P. Cooke[1]

[1]Division of Cardiovascular Medicine, Stanford University, [2]Department of Radiology, Stanford University

The surgical procedure for delivery of embryonic stem cell-derived endothelial cells to the ischemic hindlimb is demonstrated, with non-invasive tracking by bioluminescence imaging.

Assessing Endothelial Vasodilator Function with the Endo-PAT 2000

Andrea L. Axtell[1], Fatemeh A. Gomari[1], John P. Cooke[1]

[1]Department of Cardiovascular Medicine, Stanford University

A noninvasive procedure to assess endothelial function is demonstrated using the Endo-PAT 2000.

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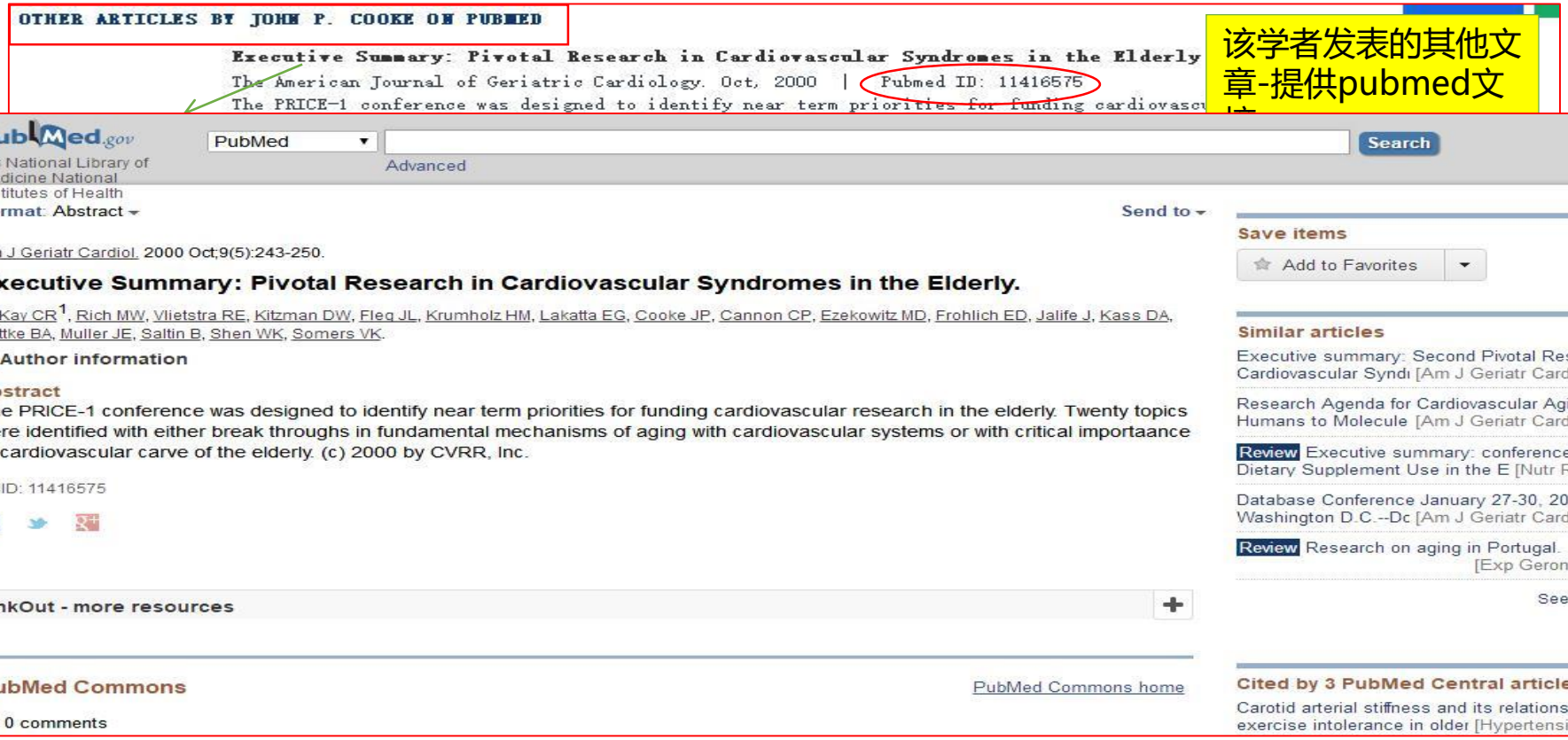
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Executive Summary: Pivotal Research in Cardiovascular Syndromes in the Elderly
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Executive Summary: Pivotal Research in Cardiovascular Syndromes in the Elderly.
McKay CR[1], Rich MW, Vlietstra RE, Kitzman DW, Fleg JL, Krumholz HM, Lakatta EG, Cooke JP, Cannon CP, Ezekowitz MD, Frohlich ED, Jalife J, Kass DA, Kottke BA, Muller JE, Saltin B, Shen WK, Somers VK.
Author information
Abstract
The PRICE-1 conference was designed to identify near term priorities for funding cardiovascular research in the elderly. Twenty topics were identified with either break throughs in fundamental mechanisms of aging with cardiovascular systems or with critical importaance to cardiovascular carve of the elderly. (c) 2000 by CVRR, Inc.
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Review Executive summary: conference on Dietary Supplement Use in the E [Nutr Rev. 2004]
Database Conference January 27-30, 2000, Washington D.C.--Dc [Am J Geriatr Cardiol. 2001]
Review Research on aging in Portugal. [Exp Gerontol. 2001]
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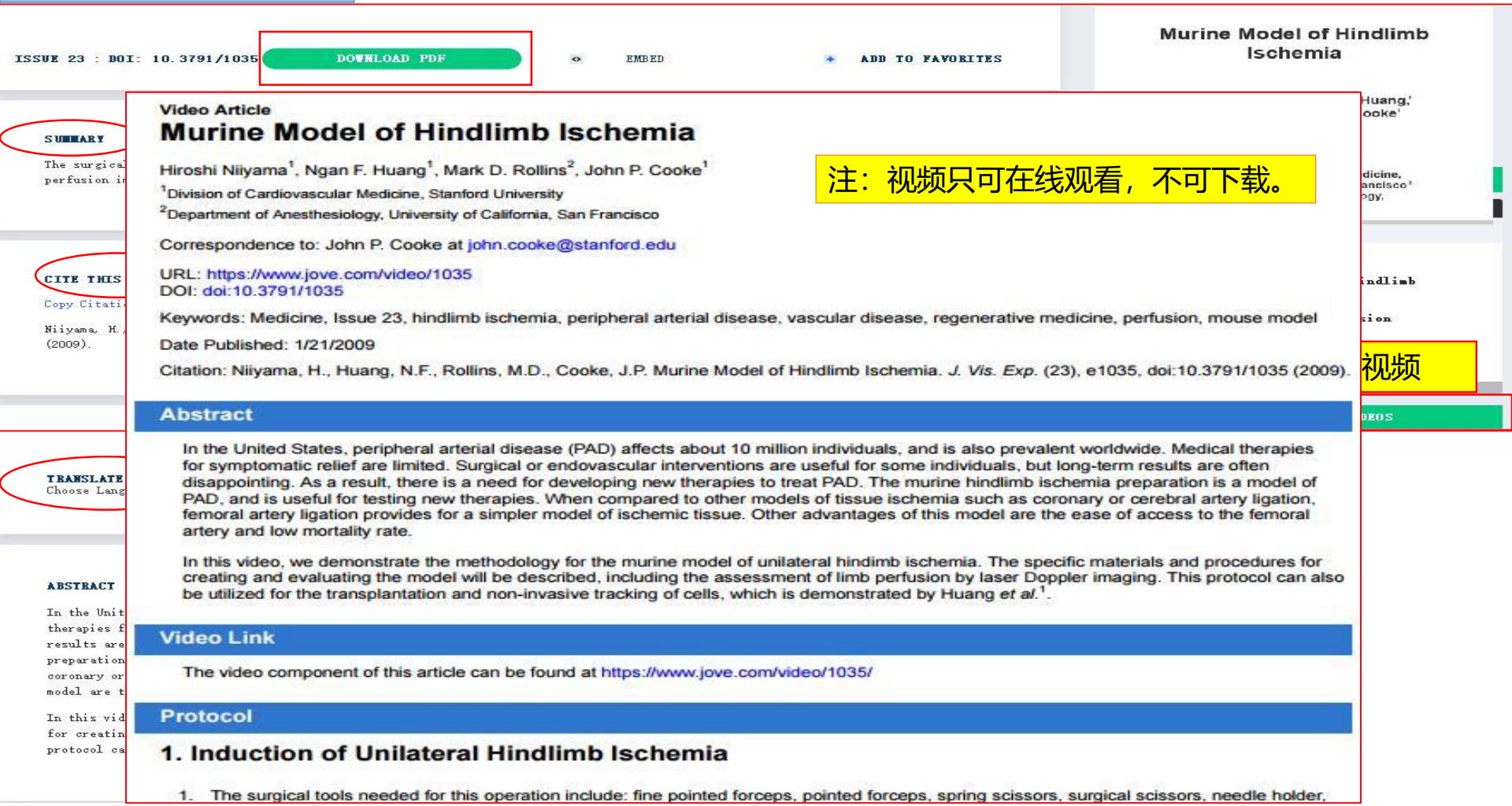

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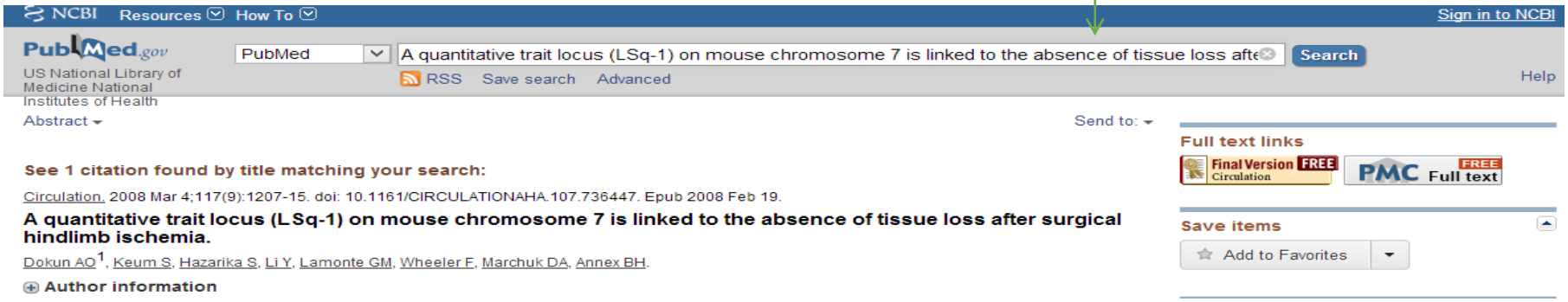
References

1. Huang, N. F., Niiyama, H., De, A., Cooke, J. P., , Transplantation and non-invasive tracking of embryonic stem cell-derived endothelial cells for treatment of hindlimb ischemia. *J Vis Exp*. (2008).
2. Cook, M. J. *The anatomy of the laboratory mouse*. Academic Press New York (1976).
3. Niiyama, H., Kai, H., Yamamoto, T., Shimada, T., Sasaki, K., Murohara, T., Egashira, K., Imaizumi, T. Roles of endogenous monocyte chemoattractant protein-1 in ischemia-induced neovascularization. *J. Am. Coll. Cardiol*. **44**, 661-666 (2004).
4. Dokun, A. O., Keum, S., Hazarika, S., Li, Y., Lamonte, G. M., Wheeler, F., Marchuk, D. A., Annex, B. H. A quantitative trait locus (LSq-1) on mouse chromosome 7 is linked to the absence of tissue loss after surgical hindlimb ischemia. *Circulation*. **117**, 1207-1215 (2008).



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Materials

提供实验材料清单

Name	Type	Company	Catalog Number	Comments
Surgical Tools	Tool	Fine Science Tools		
Constix Cotton Swabs	Tool	Contec	SC-4	
Betadine (Povidone-iodine)	Reagent	PDI		
70% alcohol	Reagent	Kendall		
Phosphate Buffered Saline	Reagent	Invitrogen		
7-0 silk suture	Tool	Genzyme		
5-0 vicryl suture	Tool	Ethicon Inc.		
Electric shaver	Tool	GE Healthcare		
Cautery	Tool	Baxter Internationl Inc.		
Laser Doppler and PeriScan PIM 3 System	Equipment	Perimed		

检索举例

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COMMENTS

43 COMMENTS

REPLY

Is there really "8－10 months old" mice, in your discussion section ? Or it should be 8－10 weeks old? Thank you.

POSTED BY: ANONYMOUS APRIL 16, 2009 － 4:58 AM

REPLY

Dear Chris, As indicated in the discussion, we prefer using old mice (8-10 months old) to mimic the population of patients who tend to suffer from peripheral arterial disease (>60 years). Young mice (<8 weeks old) have a faster recovery rate than old mice (8-10 months old) and more easily recover without any therapeutic intervention. Therefore, the fast recovery rate of young mice may interfere with studies to assess the therapeutic effect of new treatments. Thank you for your inquiry. Sincerely, Ngan Huang, PhD

POSTED BY: ANONYMOUS APRIL 16, 2009 － 6:34 PM

REPLY

We do observed the fast recovery rate of young mice. Thank you for your answer, it help us a lot. Thank you again!

POSTED BY: ANONYMOUS APRIL 17, 2009 － 3:24 AM

REPLY

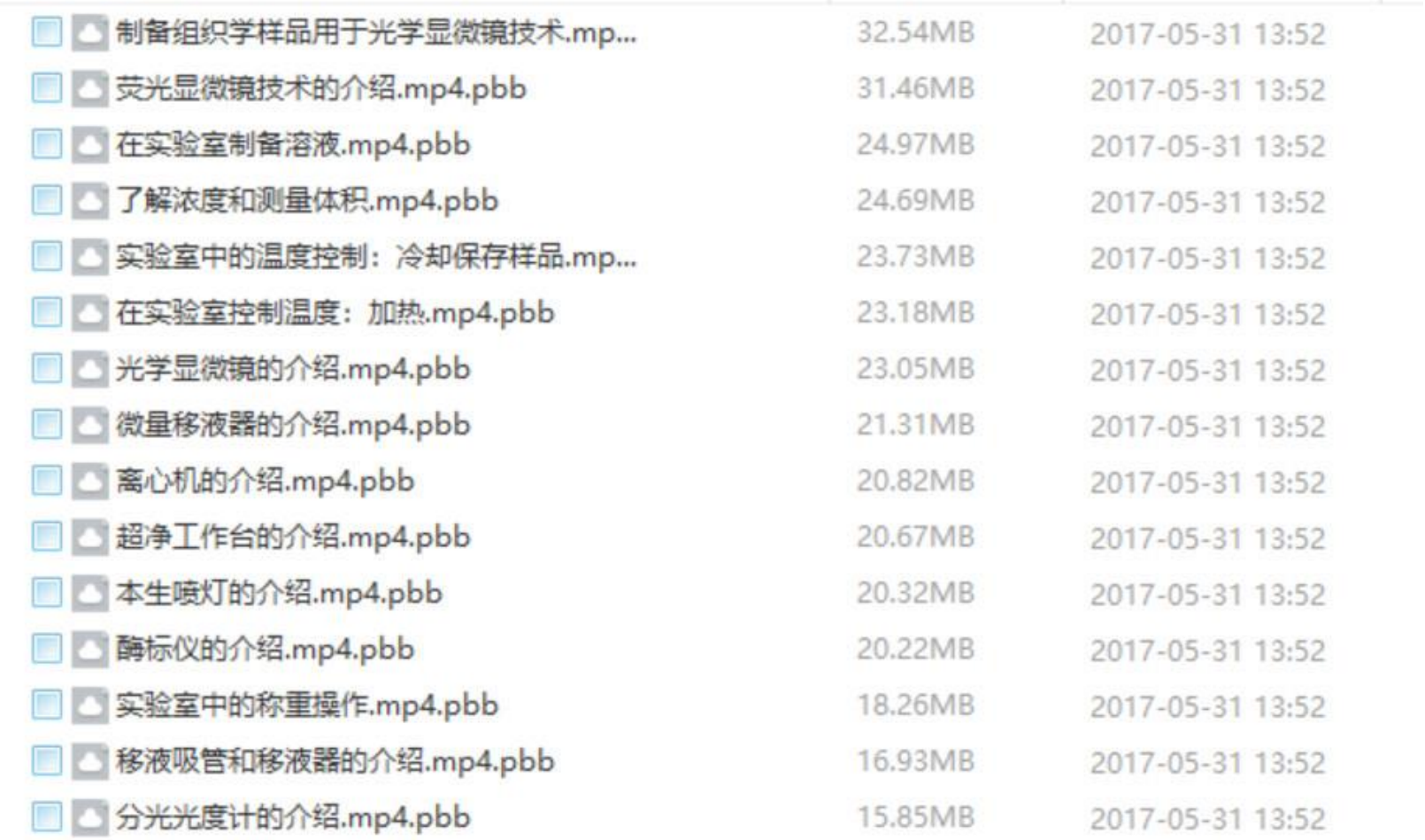
Dear Sir or Madam,
I study in University of Thessaly (Greece), department of Biochemistry & Biotechnology. I have to make a presentation about hindlimb Ischemia and your video above would help me a lot. So, I would like to know if there is any possibility to obtain this video. Thank you in advance for your time.

JOVE使用心得

提纲

- JoVE介绍
  - 创建背景：传统杂志的局限性和实验可重复性
  - 杂志特点：视频作为科学期刊的新形式
  - 主要内容：学科专辑和科教视频
  - 应用举例
- 使用体验分享与收获
  - 临床试验：技能
  - 基础实验：原理、操作、应用
- 投稿经验分享

General Laboratory Techniques



Basic Methods in Cellular and Molecular Biology

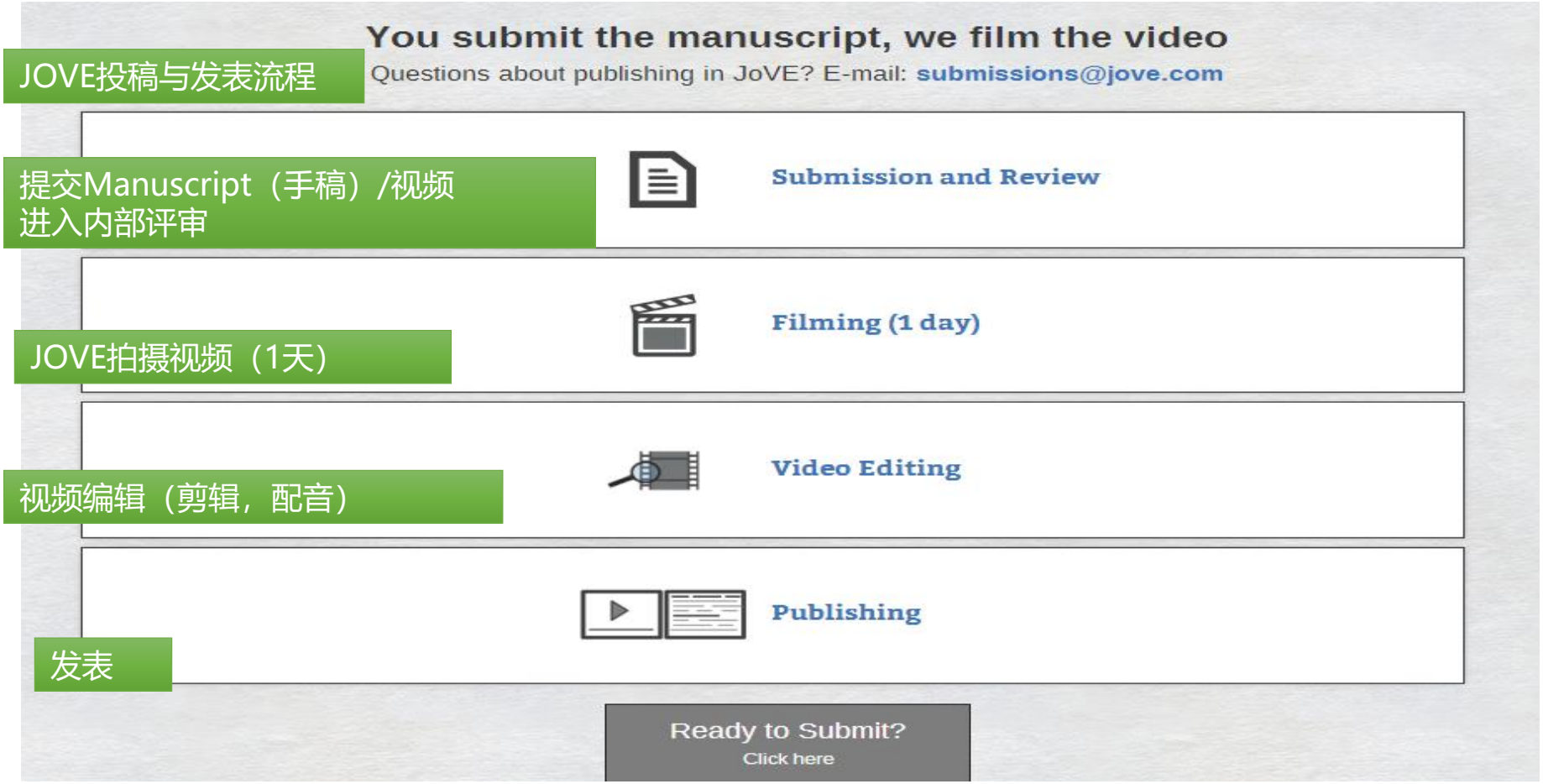
1.使用细胞计数板计数细胞.mp4.pbb	61.81MB	2017-05-31 13:52
10.细菌转化：热激法.mp4.pbb	35.53MB	2017-05-31 13:52
11.用SDS-PAGE技术分离蛋白.mp4.pbb	19.87MB	2017-05-31 13:52
12.DNA凝胶电泳.mp4.pbb	23.99MB	2017-05-31 13:52
13.PCR 聚合酶链式反应.mp4.pbb	26.81MB	2017-05-31 13:52
14.基本的组织培养：细胞传代.mp4.pbb	62.21MB	2017-05-31 13:52
15.分子克隆.mp4.pbb	25.34MB	2017-05-31 13:52
2.限制性内切酶消化.mp4.pbb	20.29MB	2017-05-31 13:52
3.DNA连接反应.mp4.pbb	15.28MB	2017-05-31 13:52
4.细胞转染介绍.mp4.pbb	16.69MB	2017-05-31 13:52
5.蛋白免疫印迹杂交.mp4.pbb	19.66MB	2017-05-31 13:52
6.凝胶纯化.mp4.pbb	17.68MB	2017-05-31 13:52
7.质粒纯化.mp4.pbb	23.34MB	2017-05-31 13:52
8.酶联免疫吸附测定法.mp4	23.64MB	2017-05-31 13:52
9.细菌转化：电穿孔法.mp4.pbb	36.32MB	2017-05-31 13:52

Science Education

- Basic Methods in Cellular and Molecular Biology细胞分子生物学中的基本方法
- Cell biology细胞生物学技术
- Essentials of Behavioral Science行为科学
- Essentials of Biology 1 yeast, Drosophila and C. elegans模式生物I酵母，果蝇和秀丽线虫
- Essentials of Biology 2 Mouse, Zebrafish, and Chick模式生物II小鼠，斑马鱼和鸡
- Essentials of Cognitive Psychology认知生理学技术
- Essentials of Developmental Biology发育生物技术
- Essentials of Experimental Psychology生理实验
- Essentials of Genetics基因实验
- Essentials of Neuroscience神经科学的方法
- General Laboratory Techniques常用的实验技术

投稿

JOVE投稿与发表流程



提交Manuscript（手稿）/视频
进入内部评审

JOVE拍摄视频（1天）

视频编辑（剪辑，配音）

发表

投稿

- Step 1: Manuscript Preparation
  - Jove's Manuscript Template
  - Author License Agreement
  - figure files/data tables
  - Excel spreadsheet using our Table of Specific Materials/Equipment
- Step 2: Editorial & Peer Review
- Step 3: Scripting & Filming
  - turn your protocol into a video script to help you and the videographers plan your video

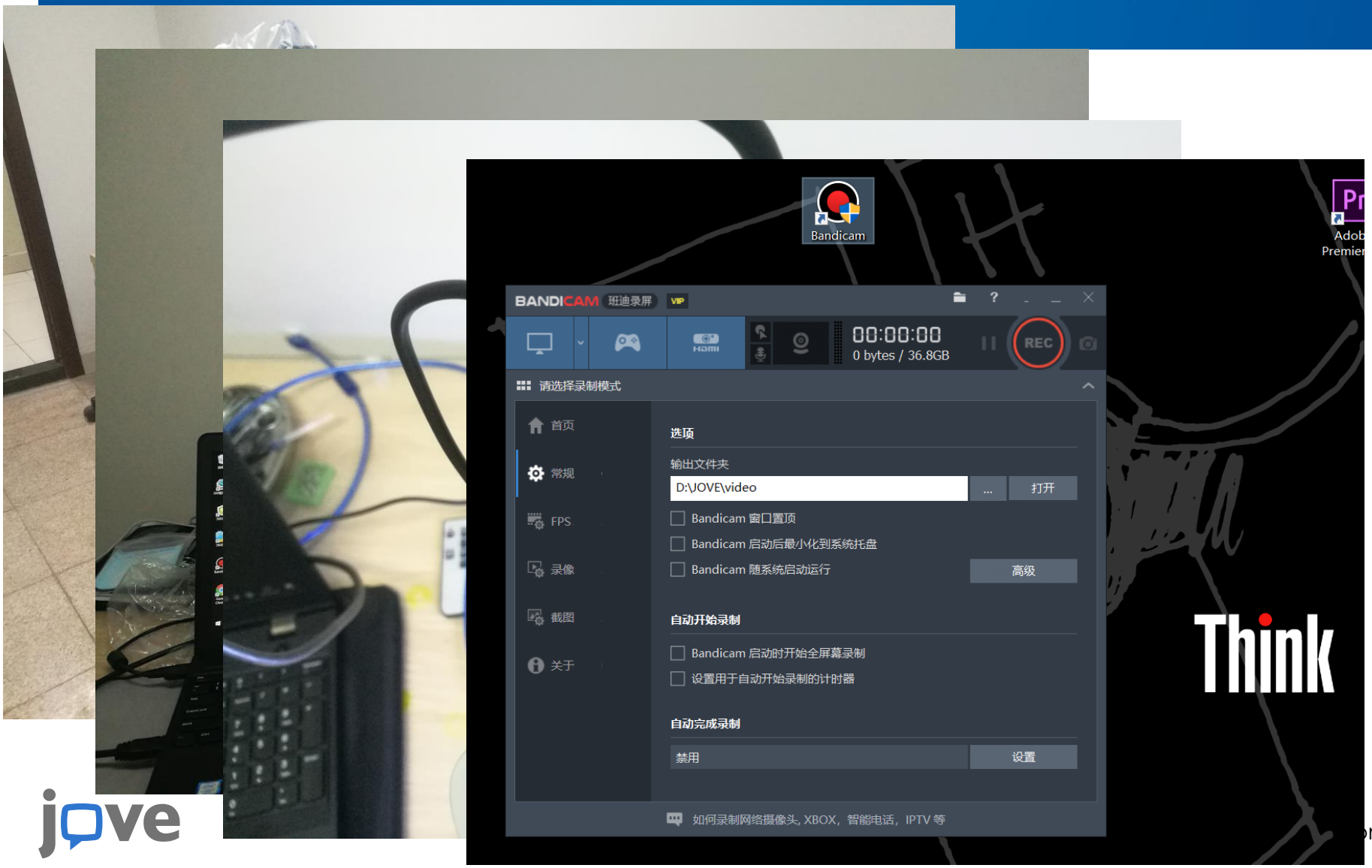
投稿

- Step 4: Video Editing
  - record a professional voice-over for your video
  - map this voice-over to the video
  - assemble a first draft of your video, while simultaneously building your article's webpage
- Step 5: Proofing & Publication
  - submit a single round of revisions from all authors
  - Your video-article will be published about a month following your approval of the final video and manuscript

个人经验

- 文章撰写
  - 标准模板
  - 实验操作流程
  - 先进性
  - 阐明实验方法和意义
  - 实验器材：产品名称及编号、生产商、用途
- 视频制作
  - 部分需自己完成：如显微镜下操作
  - 视频采集及编辑

视频采集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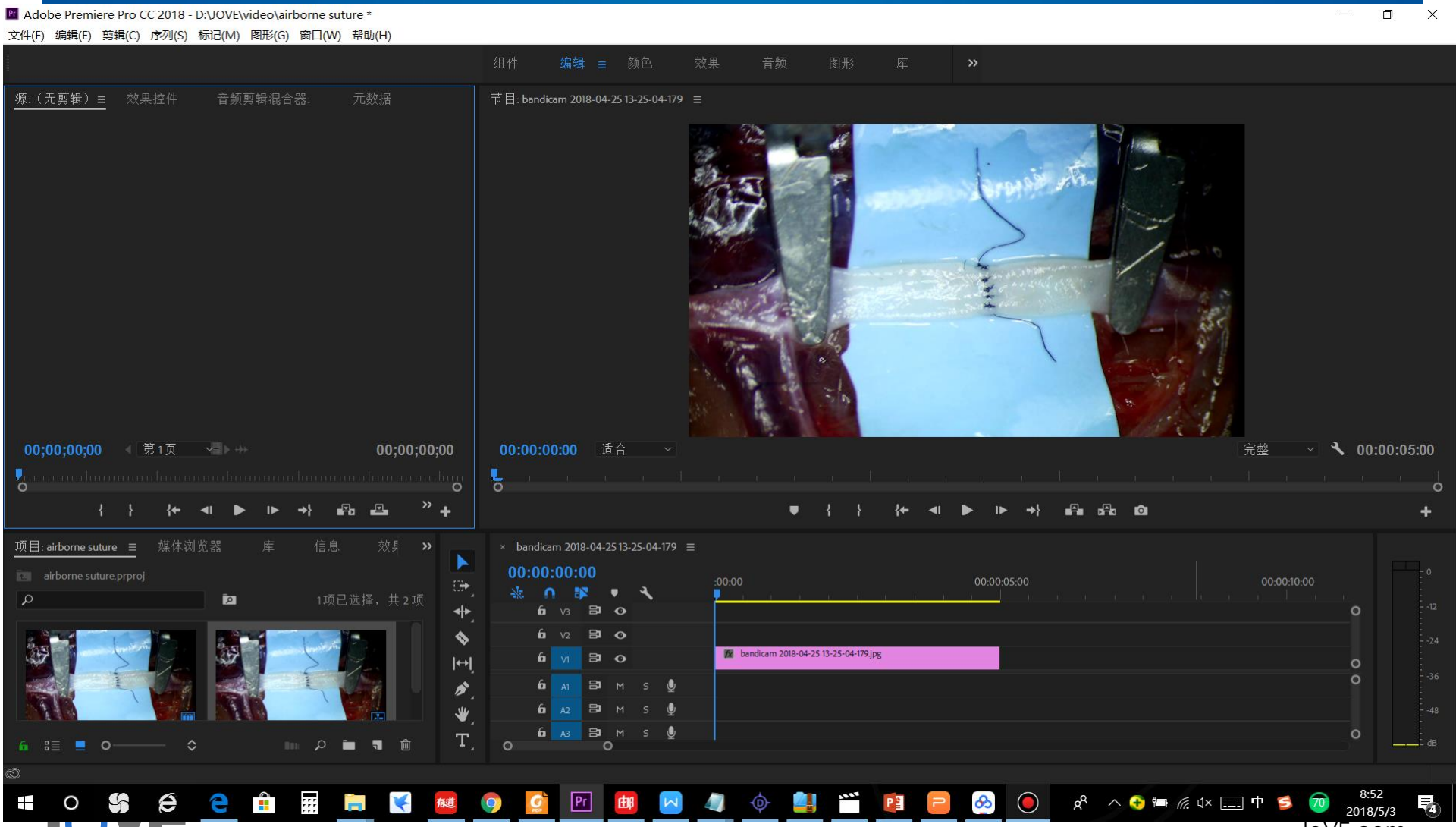
Bandicam 启动后最小化到系统托盘
Bandicam 随系统启动运行
高级
自动开始录制
Bandicam 启动时开始全屏幕录制
设置用于自动开始录制的计时器
自动完成录制
禁用
设置
如何录制网络摄像头, XBOX, 智能电话, IPTV 等
Think

视频剪辑


Adobe Premiere Pro CC 2018 - D:\JOVE\video\airborne suture *
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2018/5/3

Thank you!

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