JoVE（Journal of Visualized Experiments）
中文使用手册

https://www.jove.com/

JoVE视频期刊（JoVE Video Journal）
JoVE教育视频（JoVE Education）
的大学图书馆订阅、试用与推荐

JoVE视频由大学的图书馆以版块为单位进行订阅。大学订阅后，教师和学生可使用视频或将视频嵌入PPT。在大学校园里使用时，您的IP地址直接赋予了您使用权；在校园以外使用时，需要以您的大学邮箱注册登录。

查询您的大学已经订阅的JoVE视频资源，请将主页拉倒最下边（图1），点击“Access”链接（红框标记），即可进入已经订阅的版块列表（图2）。

图1

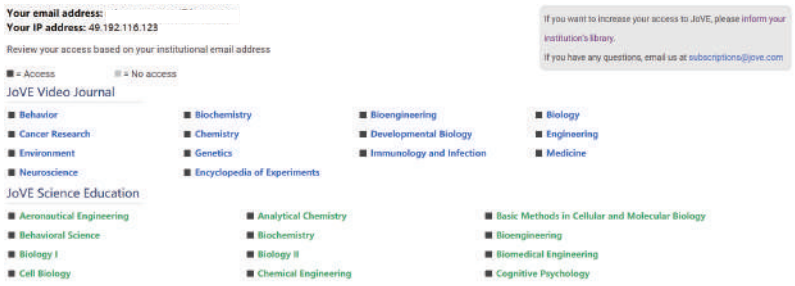


图2

如果您的大学尚未订阅您想使用的视频版块，JoVE给您提供了为期2周的试用。请点击试用链接：http://info2.jove.com/apac-free-trial，点击后用进行注册（推荐使用大学邮箱）。注册后即可使用。也可在试用期内将视频嵌入PPT应用于演示和教学。如果需要获得更长时间的试用，请与JoVE联系。

您的推荐是大学图书馆订阅的主要依据，请在主页最左下角“RECMMEND TO LIBRARY”链接（图3），点击后可在图4的页面填写您想向图书馆推荐的版块，中文即可。

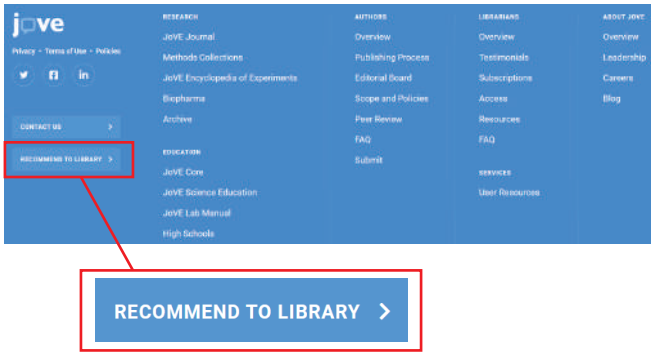


图3

图4

JoVE视频期刊（JoVE VIDEO JOURNAL）内容简介20200707版

JoVE Video Journal是全球最大的同行评审视频期刊，内容包括十几个领域的前沿研究。来自世界上领先实验室的37,000位科学家在此发表约10000篇视频文章，每月新增150余篇。视频文章内容为高质量的，具体到细节的实验视频结合详细的描述文本。这种眼见为实的办刊理念，大大提高了试验的可重复性、知识转移的有效性，并且最大限度地避免了科研经费的浪费。本刊在PubMed，Medline，Web of Science，Google Scholar等中被索引。主要包括13个学科版块。

1.**行为学（Behavior）：**认知神经科学、认知（注意力，推理，决策）、虚拟现实与感知、性行为动机、社会意识与互动、学习与记忆、睡眠和昼夜节律、语言学、成瘾、情感、运动控制、意识

2.**生物化学（Biochemistry）：**生物分子的结构和功能、细胞代谢、脂质和膜生物化学、蛋白质-蛋白质互做、蛋白质-核酸互做、蛋白质折叠与修饰、酶学、生物分离和纯化

3.**生物工程（Bioengineering ）：**组织工程、生物传感器、生物成像技术、细胞形态学、治疗材料、高通量分析、微流体、合成基材和材料的生物应用、机器人治疗学

4.**生物学（Biology）：**细胞信号通路、细胞通讯、生物信息学、基因测序、细胞和分子成像、细胞和遗传疗法、体内和体外疾病模型、蛋白质相互作用和动力学、代谢、衰老研究的模型

5.**癌症研究（Cancer Research）：**肿瘤发生与肿瘤抑制、肿瘤血管生成、宿主与肿瘤相互作用、癌症的诱变和转移、癌症干细胞、癌症生物标志物、癌症表观遗传学，遗传学和基因组学、体内和体外肿瘤模型、肿瘤成像、癌症治疗和外科

6.**化学（Chemistry）：**结构表征、电子光谱、核电表征（核磁共振，电子顺磁共振）、电化学、分子动力学、质谱、合成与纯化、柱色谱、合成生物学、结构生物学

7.**发育生物学（Developmental Biology）：**配子发生与受精、胚胎发生、形态发生和器官发生、干细胞生物学与核重新编程、再生与修复、分化机制、遗传和表观遗传控制发展历程、进化发育生物学、衰老

8.**工程学（Engineering）：**设备制造、电子系统、光学和光子学、应用力学、材料科学、高端制造

9.**环境科学（Environment）：**替代能源、生物燃料、绿色化学、环境工程、生态学、海洋生物学、海洋学、土壤与农业科学、生态毒理学与生态健康、林业与植物学、大气科学与地球科学

10.**遗传学（Genetics）：**基因发现和基因筛选、基因调控，功能和表达、DNA复制，修复和重组、染色体生物学和基因组结构、表观遗传学、进化遗传学、测序技术、比较和功能基因组学、医学遗传学、基因治疗

11.**传染与免疫（Immunology & Infection）：**微生物学、免疫学、过敏、免疫细胞发育、自身免疫性疾病、病原细菌，真菌，寄生虫，病毒和感染性Pr病毒、疾病的体外和体内建模、全球卫生研究、流行病学

12.**医学（Medicine）：**内科、临床试验、疾病的动物模型、外科专科（心胸，神经，骨科，口腔颌面科，移植等）、临床教学资源、人体生理学、肿瘤科、体内成像技术（超声，CT，PET，MRI）

13.**神经科学（Neuroscience）：**细胞和分子神经生物学、系统神经科学、发育与神经可塑性、疾病的神经生物学、电生理、神经发生和神经干细胞、神经外科和神经影像学、脊髓损伤模型、神经递质和神经元细胞信号传导

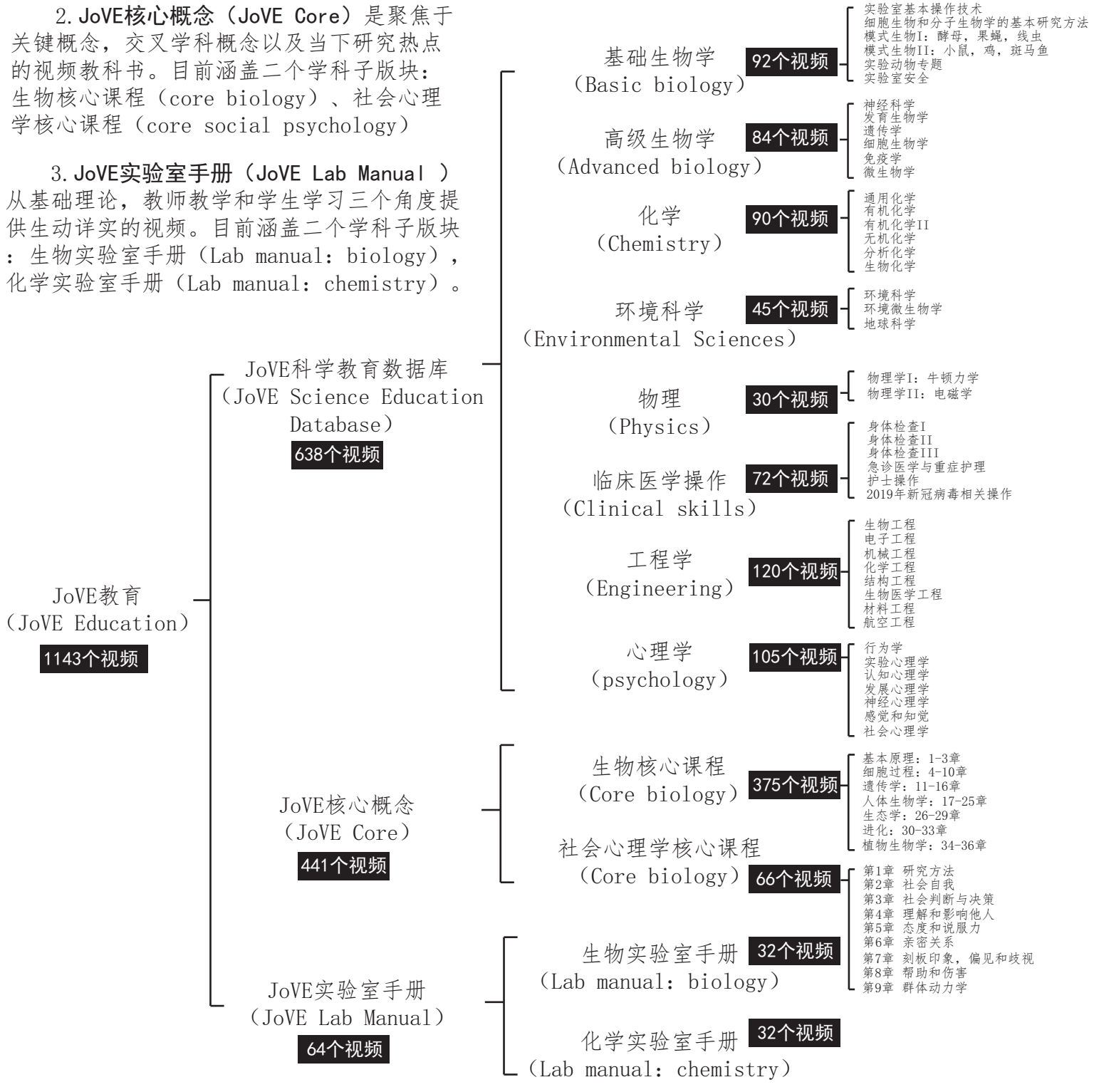
JoVE教育视频（JoVE Education）内容简介20200702版

JoVE Education由准确精良的动画和实验操作视频组成，帮助使用者理解科学概念和掌握实验流程。主要分为JoVE科学教育数据库（JoVE Science Education Database）、JoVE核心科学概念（JoVE Core）和JoVE实验室手册（JoVE Lab Manual）三大板块。所有视频都有中文字幕和文稿。

1. **JoVE 科学教育数据库（JoVE Science Education Database）**包括八个学科子版块的基础理论和实验操作：基础生物学(Basic biology)、高级生物学(advanced biology)、化学(Chemistry)、环境科学(environmental sciences)、物理(physics)、临床医学操作(clinical skills)、工程学(engineering) 、心理学(psychology)。

2. **JoVE核心概念（JoVE Core）**是聚焦于关键概念，交叉学科概念以及当下研究热点的视频教科书。目前涵盖二个学科子版块：生物核心课程（core biology）、社会心理学核心课程（core social psychology）

3. **JoVE实验室手册（JoVE Lab Manual ）**从基础理论，教师教学和学生学习三个角度提供生动详实的视频。目前涵盖二个学科子版块：生物实验室手册（Lab manual: biology），化学实验室手册（Lab manual: chemistry）。



JoVE教育（JoVE Education）视频观看和嵌入指南20200702版

一. 校园或研究所的IP地址直接赋予您视频使用权，无需注册登录；在校园或研究所以外使用，请使用您大学或研究所邮箱注册并登录个人账户。

二. JoVE教育（JoVE education）和登录链接在主页的最上端（图1）。点击后下拉菜单显示JoVE科学教育数据库（JoVE science education database）、JoVE核心科学概念（JoVE core），JoVE实验室手册（JoVE lab manual）三个板块（图1）。点击后进入子版块链接列表页面（图2）。以基础生物学（Basic biology）为例，点击后即进入基础生物学专题下的六个子版块列表（图3），再次点击后进入子专题的视频列表（图4）。

图1

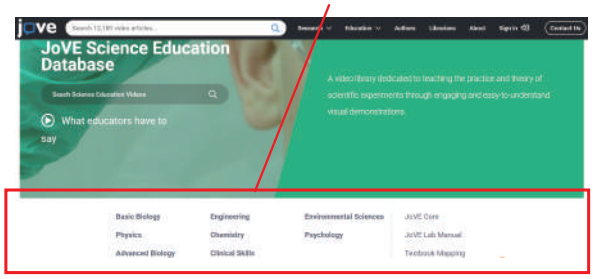


图2

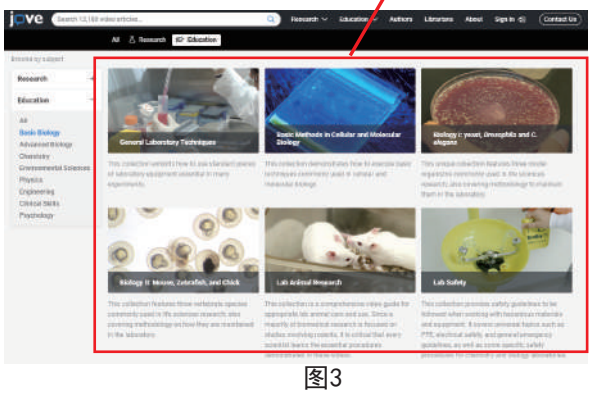


图3

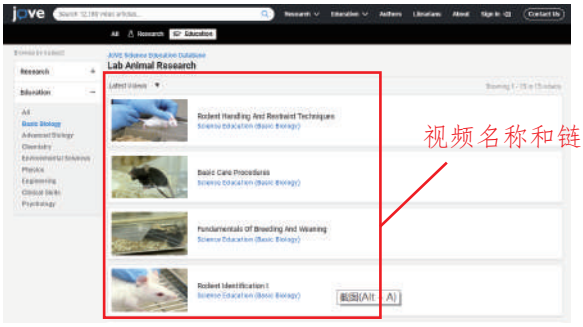


图4

三. 进入视频页面，可通过图5所示的语言选择界面选择中文；通过右侧的提纲导航，精准选择播放内容。

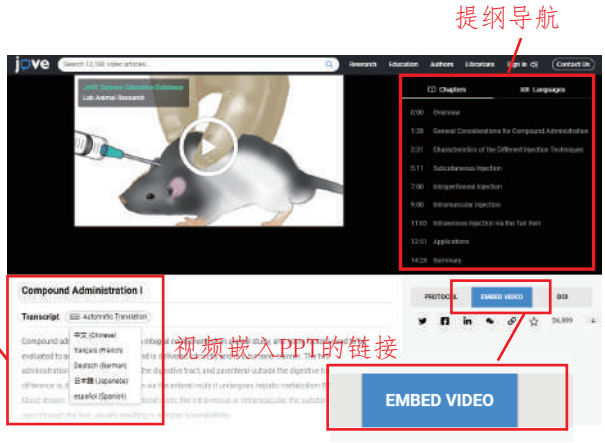


图5

四. 点击图5的嵌入链接，能够将视频嵌入您的PPT用于教学或演示。点击嵌入按钮后会弹出图6的嵌入页面，复制划红线的部分，直接粘贴至PPT或远程教学软件中。当进行教学或演示时，直接点击该PPT上的链接即可播放视频。

图6

JoVE 教育视频（JoVE Education）目录列表 20200702 版

第一部分：JoVE 科学教育数据库（JoVE Science Education Database）

https://www.jove.com/science-education/basicbio

一、基础生物学 （Basic biology），https://www.jove.com/science-education/basicbio 共 92 个视频。**视频全部有中文字幕，其中 60 个有全中文版本。**

1. 实验室基本操作技术（General Laboratory Techniques）（https://www.jove.com/science-education-library/1/general-laboratory-techniques）**全中文版本视频**
   - （1） 离心机概述（An Introduction to the Centrifuge）
     https://www.jove.com/science-education/5019/?language=Chinese
   - （2） 实验室中的温度控制：冷却保存样品（Regulating Temperature in the Lab: Preserving Samples Using Cold）
     https://www.jove.com/science-education/5042/?language=Chinese
   - （3） 光学显微镜概述（Introduction to Light Microscopy）
     https://www.jove.com/science-education/5041/?language=Chinese
   - （4） 荧光显微镜技术概述（Introduction to Fluorescence Microscopy）
     https://www.jove.com/science-education/5040/?language=Chinese
   - （5） 制备组织学样品用于光学显微镜技术（Histological Sample Preparation for Light Microscopy）
     https://www.jove.com/science-education/5039/?language=Chinese
   - （6） 分光光度计的介绍（Introduction to the Spectrophotometer）
     https://www.jove.com/science-education/5038/?language=Chinese
   - （7） 实验室中的称重操作（Measuring Mass in the Laboratory）
     https://www.jove.com/science-education/5037/?language=Chinese
   - （8） 工作台的介绍（生物安全柜， 超净工作台，通风橱等）（An Introduction to Working in the Hood）
     https://www.jove.com/science-education/5036/?language=Chinese
   - （9） 本生灯概述 (Introduction to the Bunsen Burner)
     https://www.jove.com/science-education/5035/?language=Chinese
   - （10） 移液管和移液器的介绍 (Introduction to Serological Pipettes and Pipettors)
     https://www.jove.com/science-education/5034/?language=Chinese
   - （11） 微量移液器概述（微量加样枪）(An Introduction to the Micropipettor)
     https://www.jove.com/science-education/5033/?language=Chinese
   - （12） 在实验室配置溶液 (Making Solutions in the Laboratory)
     https://www.jove.com/science-education/5030/?language=Chinese
   - （13） 了解浓度和测量体积 (Understanding Concentration and Measuring Volumes)
     https://www.jove.com/science-education/5026/?language=Chinese
   - （14） 酶标仪的介绍 (Introduction to the Microplate Reader)
     https://www.jove.com/science-education/5024/?language=Chinese

（15） 在实验室控制温度：加热 (Regulating Temperature in the Lab: Applying Heat)
https://www.jove.com/science-education/5043/?language=Chinese

2. 细胞生物学和分子生物学的基本研究方法 （Basic Methods in cellular and molecular biology ） https://www.jove.com/science-education-library/2/basic-methods-in-cellular-and-molecular-biology)，全中文版本视频
   (1) 使用细胞计数板计数细胞 (Using a Hemacytometer to Count Cells)
   https://www.jove.com/science-education/5048/?language=Chinese
   (2) 限制性内切酶消化（Restriction Enzyme Digests）
   https://www.jove.com/science-education/5070/?language=Chinese
   (3) DNA 连接反应（DNA Ligation Reactions）
   https://www.jove.com/science-education/5069/dna?language=Chinese
   (4) 细胞转染（An Introduction to Transfection）
   https://www.jove.com/science-education/5068/?language=Chinese
   (5) 蛋白免疫印迹杂交（The Western Blot）
   https://www.jove.com/science-education/5065/?language=Chinese
   (6) DNA 凝胶纯化（Gel Purification）
   https://www.jove.com/science-education/5063/?language=Chinese
   (7) 质粒纯化（Plasmid Purification）
   https://www.jove.com/science-education/5062/?language=Chinese
   (8) 酶联免疫吸附测定法（ELISA）(The ELISA Method)
   https://www.jove.com/science-education/5061/?language=Chinese
   (9) 细菌转化：电穿孔法（Bacterial Transformation: Electroporation）
   https://www.jove.com/science-education/5060/?language=Chinese
   (10) 细菌转化：热激法（Bacterial Transformation: The Heat Shock Method）
   https://www.jove.com/science-education/5059/?language=Chinese
   (11) 用 SDS-PAGE 技术分离蛋白 (SDS-PAGE) 分离蛋白 (Separating Protein with SDS-PAGE)
   https://www.jove.com/science-education/5058/sds-page?language=Chinese
   (12) DNA 凝胶电泳（DNA Gel Electrophoresis）
   https://www.jove.com/science-education/5057/dna?language=Chinese
   (13) PCR: 聚合酶链式反应（PCR: The Polymerase Chain Reaction）
   https://www.jove.com/science-education/5056/pcr-?language=Chinese
   (14) 基本的组织培养：细胞传代（Passaging Cells）
   https://www.jove.com/science-education/5052/?language=Chinese
   (15) 分子克隆（Molecular Cloning）
   https://www.jove.com/science-education/5074/?language=Chinese
3. 生物学专题一(模式生物 I)：酵母，果蝇，秀丽隐杆线虫 (Biology I: Yeast, Drosophila and C. Elegans ） https://www.jove.com/science-education-library/3/biology-i-yeast-drosophila-and-c-elegans)，全中文版本视频
   (1) 酿酒酵母概述（An Introduction to Saccharomyces cerevisiae）
   https://www.jove.com/science-education/5081/?language=Chinese
   (2) 模式生物黑腹果蝇概述（An Introduction to Drosophila melanogaster）
   https://www.jove.com/science-education/5082/?language=Chinese

(3) 模式生物概述：秀丽隐杆线虫（An Introduction to Caenorhabditis elegans）
https://www.jove.com/science-education/5103/-?language=Chinese
(4) 酿酒酵母的培养和保存（Yeast Maintenance）
https://www.jove.com/science-education/5095/?language=Chinese
(5) 果蝇的饲养与保存（Drosophila Maintenance）
https://www.jove.com/science-education/5084/?language=Chinese
(6) 秀丽隐杆线虫的实验室基本培养（C. elegans Maintenance）
https://www.jove.com/science-education/5104/?language=Chinese
(7) 酿酒酵母的繁殖（Yeast Reproduction）
https://www.jove.com/science-education/5097/?language=Chinese
(8) 果蝇的发育和生殖（Drosophila Development and Reproduction）
https://www.jove.com/science-education/5093/?language=Chinese
(9) 秀丽隐杆线虫的发育和生殖（C. elegans Development and Reproduction）
https://www.jove.com/science-education/5110/?language=Chinese
(10) 从酵母中提取核酸（Isolating Nucleic Acids from Yeast）
https://www.jove.com/science-education/5096/?language=Chinese
(11) 果蝇幼虫的免疫组化（Drosophila Larval IHC）
https://www.jove.com/science-education/5106/?language=Chinese
(12) 线虫 RNA 干扰的简介（RNAi in C. elegans）
https://www.jove.com/science-education/5105/rna?language=Chinese
(13) 酵母的转化和克隆（Yeast Transformation and Cloning）
https://www.jove.com/science-education/5083/?language=Chinese
(14) 黑腹果蝇卵和幼虫收获及准备（Drosophila melanogaster Embryo and Larva Harvesting and Preparation）
https://www.jove.com/science-education/5094/?language=Chinese
(15) 线虫的化学趋向性介绍（C. elegans Chemotaxis Assay）
https://www.jove.com/science-education/5113/?language=Chinese

4. 生物学专题二（模式生物 II）：小鼠，斑马鱼，鸡（Biology II: Mouse, Zebrafish and Chick ） https://www.jove.com/science-education-library/4/biology-ii-mouse-zebrafish-and-chick），全中文版本视频
(1) 对实验室小鼠概述（An Introduction to the Laboratory Mouse: Mus musculus）
https://www.jove.com/science-education/5129/?language=Chinese
(2) 鸡（家鸡）的概述（An Introduction to the Chick: Gallus gallus domesticus）
https://www.jove.com/science-education/5153/?language=Chinese
(3) 印度斑马鱼：斑马鱼的概述（An Introduction to the Zebrafish: Danio rerio）
https://www.jove.com/science-education/5128/?language=Chinese
(4) 小鼠的操作和饲养的基本知识（Basic Mouse Care and Maintenance）
https://www.jove.com/science-education/5158/?language=Chinese
(5) 鸡的操作和饲养的基本知识（Basic Chick Care and Maintenance）
https://www.jove.com/science-education/5154/?language=Chinese
(6) 斑马鱼的保存和饲养（Zebrafish Maintenance and Husbandry）
https://www.jove.com/science-education/5152/?language=Chinese
(7) 实验室小鼠的发育与繁殖（Development and Reproduction of the

Laboratory Mouse）
https://www.jove.com/science-education/5159/?language=Chinese

(8) 鸡的发育（Development of the Chick）
https://www.jove.com/science-education/5155/?language=Chinese

(9) 斑马鱼的繁殖和发育（Zebrafish Reproduction and Development）
https://www.jove.com/science-education/5151/?language=Chinese

(10) 小鼠的基因分型（Mouse Genotyping）
https://www.jove.com/science-education/5160/?language=Chinese

(11) 鸡胚的壳内电转化（In ovo Electroporation of Chicken Embryos）
https://www.jove.com/science-education/5156/?language=Chinese

(12) 斑马鱼育种和胚胎的操作（Zebrafish Breeding and Embryo Handling）
https://www.jove.com/science-education/5150/?language=Chinese

(13) 对小鼠施用实验药剂（Introducing Experimental Agents into the Mouse）
https://www.jove.com/science-education/5161/?language=Chinese

(14) 鸡胚的去壳培养（Chick ex ovo Culture）
https://www.jove.com/science-education/5157/?language=Chinese

(15) 斑马鱼显微注射技术（Zebrafish Microinjection Techniques）
https://www.jove.com/science-education/5130/?language=Chinese

5. 实验动物专题（Lab animal research）https://www.jove.com/science-education-library/23/lab-animal-research，**中文字幕与中文文稿**

(1) 啮齿类实验动物的抓取与保定（Rodent Handling and Restraint Techniques）
https://www.jove.com/science-education/10221/rodent-handling-and-restraint-techniques

(2) 小鼠的饲养与管理（Basic Care Procedures）
https://www.jove.com/science-education/10290/basic-care-procedures

(3) 小鼠的繁育与幼鼠断奶管理（Fundamentals of Breeding and Weaning）
https://www.jove.com/science-education/10293/fundamentals-of-breeding-and-weaning

(4) 啮齿类实验动物的个体识别 I：小鼠打耳标和打耳孔（Rodent Identification I）
https://www.jove.com/science-education/10189/rodent-identification-i

(5) 啮齿类实验动物个体识别 II：染趾，染尾及大鼠芯片植入（Rodent Identification II）
https://www.jove.com/science-education/10182/rodent-identification-ii

(6) 化合物给药 I: 皮下，腹膜，肌肉及静脉注射（Compound Administration I）
https://www.jove.com/science-education/10198/compound-administration-i

(7) 化合物给药 II：口服及局部涂抹（Compound Administration II）
https://www.jove.com/science-education/10388/compound-administration-ii

(8) 化合物给药 III：皮内，鼻内及颅内给药（Compound Administration III）
https://www.jove.com/science-education/10215/compound-administration-iii

(9) 化合物给药 IV: 心内，眶后及足垫给药（Compound Administration IV）
https://www.jove.com/science-education/10214/compound-administration-iv

(10) 小鼠血液采集 I：眶后，剪尾及心内采血（Blood Withdrawal I）
https://www.jove.com/science-education/10246/blood-withdrawal-i

(11) 小鼠血液采集 II：面部，颌下腺，隐静脉及股静脉采血（Blood Withdrawal II）

https://www.jove.com/science-education/10247/blood-withdrawal-ii

(12) 小鼠的麻醉与维持（Anesthesia Induction and Maintenance）
https://www.jove.com/science-education/10263/anesthesia-induction-and-maintenance

(13) 啮齿类动物的外科手术操作（Considerations for Rodent Surgery）
https://www.jove.com/science-education/10285/considerations-for-rodent-surgery

(14) 尸体剖检及组织样品采集（Diagnostic Necropsy and Tissue Harvest）
https://www.jove.com/science-education/10294/diagnostic-necropsy-and-tissue-harvest

(15) 组织样品采集的无菌操作（Sterile Tissue Harvest）
https://www.jove.com/science-education/10298/sterile-tissue-harvest

6. 实验室安全（Lab safety）https://www.jove.com/science-education-library/31/lab-safety，**中文字幕和中文文稿**

(1) 恰当的个人防护装备（Proper Personal Protective Equipment）
https://www.jove.com/science-education/10402/proper-personal-protective-equipment

(2) 紧急洗眼和喷淋设备（Emergency Eyewash and Shower Stations）
https://www.jove.com/science-education/10373/emergency-eyewash-and-shower-stations

(3) 用电安全（Electrical Safety）
https://www.jove.com/science-education/10364/electrical-safety

(4) 离心机使用（Working with Centrifuges）
https://www.jove.com/science-education/10365/working-with-centrifuges

(5) 制冷和加热设备的使用（Working with Hot and Cold Sources）
https://www.jove.com/science-education/10366/working-with-hot-and-cold-sources

(6) 实验室紧急情况指南（Guidelines in Case of a Laboratory Emergency）
https://www.jove.com/science-education/10379/guidelines-in-case-of-a-laboratory-emergency

(7) 化学品存储：分类，危险认知以及兼容存放原则（Chemical Storage: Categories, Hazards And Compatibilities）
https://www.jove.com/science-education/10380/chemical-storage-categories-hazards-and-compatibilities

(8) 无机酸的安全处理（Safe Handling of Mineral Acids）
https://www.jove.com/science-education/10380/chemical-storage-categories-hazards-and-compatibilities

(9) 化学品泄漏的处理（Handling Chemical Spills）
https://www.jove.com/science-education/10371/handling-chemical-spills

(10) 高压灭菌器的正确使用（Proper Use of Autoclaves）
https://www.jove.com/science-education/10381/proper-use-of-autoclaves

(11) 通风橱和层流柜的使用（Fume Hoods and Laminar Flow Cabinets）
https://www.jove.com/science-education/10372/fume-hoods-and-laminar-flow-cabinets

（12） 应用施伦克线处理对空气和水敏感的化学品 (Handling Air- and Water-Sensitive Chemicals Using a Schlenk Line)
https://www.jove.com/science-education/10376/handling-air-and-water-sensitive-chemicals-using-a-schlenk-line

（13） 真空设备的正确操作 (Proper Operation of Vacuum Based Equipment)
https://www.jove.com/science-education/10377/proper-operation-of-vacuum-based-equipment

（14） 手套箱的操作 (Operating the Glovebox)
https://www.jove.com/science-education/10378/operating-the-glovebox

（15） 高压反应容器的操作 (Operation of High-pressure Reactor Vessels)
https://www.jove.com/science-education/10400/operation-of-high-pressure-reactor-vessels

（16） 保证试验室生物安全的消毒措施 (Decontamination for Laboratory Biosafety)
https://www.jove.com/science-education/10399/decontamination-for-laboratory-biosafety

（17） 试验室废物的适当处理 (Proper Waste Disposal)
https://www.jove.com/science-education/10403/proper-waste-disposal

二、高级生物学 （Advanced biology），https://www.jove.com/science-education/advnbio
共 84 个视频。**视频全部有中文字幕，其中 15 个有全中文版本。**

1. 神经科学 （Neuroscience），https://www.jove.com/science-education-library/5/neuroscience，**全中文版本视频**。

（1） 神经生理学导论（An Introduction to Neurophysiology）
https://www.jove.com/science-education/5201/?language=Chinese

（2） 膜片钳电生理技术（Patch Clamp Electrophysiology）
https://www.jove.com/science-education/5202/?language=Chinese

（3） 神经元钙成像（Calcium Imaging in Neurons）
https://www.jove.com/science-education/5203/?language=Chinese

（4） 神经解剖学导论 （An Introduction to Neuroanatomy）
https://www.jove.com/science-education/5204/?language=Chinese

（5） 啮齿动物的立体定位手术（Rodent Stereotaxic Surgery）
https://www.jove.com/science-education/5205/?language=Chinese

（6） 神经组织的组织学染色 （Histological Staining of Neural Tissue）
https://www.jove.com/science-education/5206/?language=Chinese

（7） 行为神经学导论 （An Introduction to Behavioral Neuroscience）
https://www.jove.com/science-education/5210/?language=Chinese

（8） Morris 水迷宫（The Morris Water Maze）
https://www.jove.com/science-education/5211/morris?language=Chinese

（9） fMRI:功能磁共振成像 (fMRI: Functional Magnetic Resonance Imaging)
https://www.jove.com/science-education/5212/fmri?language=Chinese

（10） 细胞和分子神经科学导论 (An Introduction to Cellular and Molecular Neuroscience)
https://www.jove.com/science-education/5213/?language=Chinese

（11） 原代神经元培养物（Primary Neuronal Cultures）
https://www.jove.com/science-education/5214/?language=Chinese
（12） 神经元转染方法（Neuronal Transfection Methods）
https://www.jove.com/science-education/5215/?language=Chinese
（13） 发育神经生物学导论（An Introduction to Developmental Neurobiology）
https://www.jove.com/science-education/5207/?language=Chinese
（14） 小鼠子宫内电穿孔（Murine In Utero Electroporation）
https://www.jove.com/science-education/5208/?language=Chinese
（15） 神经组织的外值体培养（Explant Culture of Neural Tissue）
https://www.jove.com/science-education/5209/?language=Chinese

2. 发育生物学（developmental biology），https://www.jove.com/science-education-library/6/developmental-biology），**中文字幕和中文文稿。**

(1) 发育遗传学概述（An Introduction to Developmental Genetics）
https://www.jove.com/science-education/5325/an-introduction-to-developmental-genetics
(2) 反义吗啉环寡核苷酸（Morpholinos）介导的基因沉默技术（Gene Silencing with Morpholinos）
https://www.jove.com/science-education/5326/gene-silencing-with-morpholinos
(3) 模式生物的基因工程技术（Genetic Engineering of Model Organisms）
https://www.jove.com/science-education/5327/genetic-engineering-of-model-organisms
(4) 分子发育生物学概论（An Introduction to Molecular Developmental Biology）
https://www.jove.com/science-education/5328/an-introduction-to-molecular-developmental-biology
(5) 组织块体外培养在发育研究中的应用（Explant Culture for Developmental Studies）
https://www.jove.com/science-education/5329/explant-culture-for-developmental-studies
(6) 整胚原位杂交技术（Whole-Mount In Situ Hybridization）
https://www.jove.com/science-education/5330/whole-mount-in-situ-hybridization
(7) 干细胞生物学概论（An Introduction to Stem Cell Biology）
https://www.jove.com/science-education/5331/an-introduction-to-stem-cell-biology
(8) 胚胎干细胞的培养与分化（Embryonic Stem Cell Culture and Differentiation）
https://www.jove.com/science-education/5332/embryonic-stem-cell-culture-and-differentiation
(9) 诱导多能性干细胞（Induced Pluripotency）
https://www.jove.com/science-education/5333/induced-pluripotency
(10) 器官发生学概论（An Introduction to Organogenesis）
https://www.jove.com/science-education/5334/an-introduction-to-organogenesis
(11) 命运图：细胞命运的决定与特化机制（Fate Mapping）

https://www.jove.com/science-education/5335/fate-mapping

(12) 利用胚胎组织移植技术研究器官发生（Transplantation Studies）
https://www.jove.com/science-education/5336/transplantation-studies

(13) 衰老与再生研究概述（An Introduction to Aging and Regeneration）
https://www.jove.com/science-education/5337/an-introduction-to-aging-and-regeneration

(14) 无脊椎模式动物寿命的定量（Invertebrate Lifespan Quantification）
https://www.jove.com/science-education/5338/invertebrate-lifespan-quantification

(15) 成体干细胞在组织修复再生中作用的研究（Tissue Regeneration with Somatic Stem Cells）
https://www.jove.com/science-education/5339/tissue-regeneration-with-somatic-stem-cells

3. 遗传学（Genetics），https://www.jove.com/science-education-library/8/genetics，**中文字幕和中文文稿**

(1) 遗传学分析概述（An Overview of Genetic Analysis）
https://www.jove.com/science-education/5540/an-overview-of-genetic-analysis

(2) 遗传杂交（Genetic Crosses）
https://www.jove.com/science-education/5541/genetic-crosses

(3) 遗传（基因）筛选（Genetic Screens）
https://www.jove.com/science-education/5542/genetic-screens

(4) 遗传（基因）与疾病的概述（An Overview of Genetics and Disease）
https://www.jove.com/science-education/5543/an-overview-of-genetics-and-disease

(5) SNP（单核苷酸多态性）基因分型（SNP Genotyping）
https://www.jove.com/science-education/5544/snp-genotyping

(6) 细胞遗传学（Cytogenetics）
https://www.jove.com/science-education/5545/cytogenetics

(7) 基因表达概述（An Overview of Gene Expression）
https://www.jove.com/science-education/5546/an-overview-of-gene-expression

(8) 用微阵列分析表达谱（Expression Profiling with Microarrays）
https://www.jove.com/science-education/5547/expression-profiling-with-microarrays

(9) RNA 测序（RNA-Seq）
https://www.jove.com/science-education/5548/rna-seq

(10) 表观遗传学概述（An Overview of Epigenetics）
https://www.jove.com/science-education/5549/an-overview-of-epigenetics

(11) DNA 甲基化分析（DNA Methylation Analysis）
https://www.jove.com/science-education/5550/dna-methylation-analysis

(12) 染色质免疫共沉淀（Chromatin Immunoprecipitation）
https://www.jove.com/science-education/5551/chromatin-immunoprecipitation

(13) 基因工程概述（An Overview of Genetic Engineering）
https://www.jove.com/science-education-library/8/genetics
(14) 重组工程与基因靶向（Recombineering and Gene Targeting）
https://www.jove.com/science-education/5553/recombineering-and-gene-targeting
(15) 基因组编辑（Genome Editing）
https://www.jove.com/science-education/5554/genome-editing

4. 细胞生物学（Cell biology）https://www.jove.com/science-education-library/9/cell-biology，中文字幕和中文文稿
(1) 细胞分裂概述（An Introduction to Cell Division）
https://www.jove.com/science-education/5640/an-introduction-to-cell-division
(2) 细胞周期分析（Cell Cycle Analysis）
https://www.jove.com/science-education/5641/cell-cycle-analysis
(3) 活细胞有丝分裂成像技术（Live Cell Imaging of Mitosis）
https://www.jove.com/science-education/5642/live-cell-imaging-of-mitosis
(4) 细胞运动与迁移概述（An Introduction to Cell Motility and Migration）
https://www.jove.com/science-education/5643/an-introduction-to-cell-motility-and-migration
(5) Transwell 细胞迁移试验（The Transwell Migration Assay）
https://www.jove.com/science-education/5644/the-transwell-migration-assay
(6) 细胞外基质概述及 3D 矩阵侵入试验（Invasion Assay Using 3D Matrices）
https://www.jove.com/science-education/5645/invasion-assay-using-3d-matrices
(7) 胞吞与胞吐的概述（An Introduction to Endocytosis and Exocytosis）
https://www.jove.com/science-education/5646/an-introduction-to-endocytosis-and-exocytosis
(8) 细胞表面蛋白生物素标记技术（Cell-surface Biotinylation Assay）
https://www.jove.com/science-education/5647/cell-surface-biotinylation-assay
(9) FM 染料在囊泡在循环研究中的应用（FM Dyes in Vesicle Recycling）
https://www.jove.com/science-education/5151/?language=Chinese
(10) 细胞新陈代谢概述（An Introduction to Cell Metabolism）
https://www.jove.com/science-education/5652/an-introduction-to-cell-metabolism
(11) ATP 生物发光检测（The ATP Bioluminescence Assay）
https://www.jove.com/science-education/5653/the-atp-bioluminescence-assay
(12) 细胞死亡概述（An Introduction to Cell Death）
https://www.jove.com/science-education/5649/an-introduction-to-cell-death
(13) 活性氧自由基的检测（Detecting Reactive Oxygen Species）
https://www.jove.com/science-education/5654/detecting-reactive-oxygen-species

(14) TUNEL 试验检测细胞凋亡（The TUNEL Assay）
https://www.jove.com/science-education/5650/annexin-v-and-propidium-iodide-labeling

(15) Annexin V 和碘化丙啶标记区分细胞凋亡和细胞坏死试验（Annexin V and Propidium Iodide Labeling）
https://www.jove.com/science-education/5650/annexin-v-and-propidium-iodide-labeling

5. 免疫学（Immunology），https://www.jove.com/science-education-library/83/immunology，中文字幕和中文文稿

(1) 流式细胞仪及荧光细胞分选（FACS）：脾脏 B 细胞的分离（Flow Cytometry and Fluorescence-Activated Cell Sorting (FACS): Isolation of Splenic B Lymphocytes）
https://www.jove.com/science-education/10494/flow-cytometry-fluorescence-activated-cell-sorting-facs-isolation

(2) 磁珠分选法分离胸腺 T 细胞（Magnetic Activated Cell Sorting (MACS): Isolation of Thymic T Lymphocytes）
https://www.jove.com/science-education/10495/magnetic-activated-cell-sorting-macs-isolation-of-thymic-t-lymphocytes

(3) 间接，三明治及竞争 ELISA 试验（ELISA Assays: Indirect, Sandwich, and Competitive）
https://www.jove.com/science-education/10496/elisa-assays-indirect-sandwich-and-competitive

(4) ELISPOT 试验：分泌 IFN-γ 的脾细胞的检测（ELISPOT Assay: Detection of IFN-γ Secreting Splenocytes）
https://www.jove.com/science-education/10497/elispot-assay-detection-of-ifn-secreting-splenocytes

(5) 免疫组织化学和免疫细胞化学：通过光学显微镜进行组织成像（Immunohistochemistry and Immunocytochemistry: Tissue Imaging via Light Microscopy）
https://www.jove.com/science-education/10498/immunohistochemistry-immunocytochemistry-tissue-imaging-via-light

(6) 抗体生产：利用杂交瘤生产单克隆抗体（Antibody Generation: Producing Monoclonal Antibodies Using Hybridomas）
https://www.jove.com/science-education/10499/antibody-generation-producing-monoclonal-antibodies-using-hybridomas

(7) 免疫荧光显微镜：石蜡包埋组织切片的免疫荧光染色（Immunofluorescence Microscopy: Immunofluorescence Staining of Paraffin-Embedded Tissue Sections）
https://www.jove.com/science-education/10500/immunofluorescence-microscopy-immunofluorescence-staining-paraffin

(8) 激光共聚焦显微镜：小鼠成纤维细胞中蛋白质的定位技术（Confocal Fluorescence Microscopy: A Technique to Determine the Localization of Proteins in Mouse Fibroblasts）
https://www.jove.com/science-education/10501/confocal-fluorescence-

microscopy-technique-to-determine-localization

(9) 免疫共沉淀技术：使用琼脂糖珠纯化内源蛋白（Immunoprecipitation-Based Techniques: Purification of Endogenous Proteins Using Agarose Beads）
https://www.jove.com/science-education/10502/immunoprecipitation-based-techniques-purification-endogenous-proteins

(10) 细胞周期分析：使用 CFSE 染色和流式细胞仪检测刺激后的 CD4 和 CD8 T 细胞增殖（Cell Cycle Analysis: Assessing CD4 and CD8 T Cell Proliferation After Stimulation Using CFSE Staining and Flow Cytometry）
https://www.jove.com/science-education/10503/cell-cycle-analysis-assessing-cd4-cd8-t-cell-proliferation-after

(11) 适应性细胞转移：供体小鼠脾细胞向受体小鼠的移植及通过流式细胞术评价移植效果（Adoptive Cell Transfer: Introducing Donor Mouse Splenocytes to a Host Mouse and Assessing Success via FACS）
https://www.jove.com/science-education/10504/adoptive-cell-transfer-introducing-donor-mouse-splenocytes-to-host

(12) 细胞死亡的检测：铬释放试验检测细胞毒作用（Assay for Cell Death: Chromium Release Assay of Cytotoxic Ability）
https://www.jove.com/science-education/10505/assay-for-cell-death-chromium-release-assay-of-cytotoxic-ability

6. 微生物学（Microbiology），https://www.jove.com/science-education-library/84/microbiology，**中文字幕和中文文稿**

(1) Winogradsky 柱的应用：样品中不同微生物种群富集培养方法（Creating a Winogradsky Column: A Method to Enrich the Microbial Species in a Sediment Sample）
https://www.jove.com/science-education/10506/creating-winogradsky-column-method-to-enrich-microbial-species

(2) 倍比稀释，培养平板制作及划线涂板（Serial Dilutions and Plating: Microbial Enumeration）
https://www.jove.com/science-education/10507/serial-dilutions-and-plating-microbial-enumeration

(3) 富集培养：应用选择性和差异培养基培养需氧和厌氧微生物（Enrichment Cultures: Culturing Aerobic and Anaerobic Microbes on Selective and Differential Medias）
https://www.jove.com/science-education/10508/enrichment-cultures-culturing-aerobic-anaerobic-microbes-on-selective

(4) 纯培养和划线涂板：从混合样品中分离单克隆菌落（Pure Cultures and Streak Plating: Isolation of Single Bacterial Colonies from a Mixed Sample）
https://www.jove.com/science-education/10509/pure-cultures-streak-plating-isolation-single-bacterial-colonies-from

(5) 16S rRNA 测序：基于 PCR 的菌种鉴定技术（16S rRNA Sequencing: A PCR-based Technique to Identify Bacterial Species）
https://www.jove.com/science-education/10510/16s-rrna-sequencing-pcr-based-technique-to-identify-bacterial

(6) 生长曲线：应用菌落形成单位和光密度测量测定细菌生长曲线（Growth

Curves: Generating Growth Curves Using Colony Forming Units and Optical Density Measurements）
https://www.jove.com/science-education/10511/growth-curves-generating-growth-curves-using-colony-forming-units

（7） 抗生素药敏试验：用 E-test 药敏条法测定两种抗生素的最小抑菌浓度及协同作用（Antibiotic Susceptibility Testing: Epsilometer Tests to Determine MIC Values of Two Antibiotics and Evaluate Antibiotic Synergy）
https://www.jove.com/science-education/10512/antibiotic-susceptibility-testing-epsilometer-tests-to-determine-mic

（8） 显微镜和细菌染色：革兰氏染色，荚膜染色和孢子染色（Microscopy and Staining: Gram, Capsule, and Endospore Staining）
https://www.jove.com/science-education/10513/microscopy-and-staining-gram-capsule-and-endospore-staining

（9） 噬斑试验：通过噬斑形成单位测定病毒滴度（Plaque Assay: A Method to Determine Viral Titer as Plaque Forming Units (PFU)）
https://www.jove.com/science-education/10514/plaque-assay-method-to-determine-viral-titer-as-plaque-forming-units

（10） 转化由氯化钙处理制作的感受态大肠杆菌细胞（Transformation of E. coli Cells Using an Adapted Calcium Chloride Procedure）
https://www.jove.com/science-education/10515/transformation-e-coli-cells-using-an-adapted-calcium-chloride

（11） 细菌接合：氨苄青霉素抗性从供体细菌向受体细菌转移的一种方式（Conjugation: A Method to Transfer Ampicillin Resistance from Donor to Recipient E. coli）
https://www.jove.com/science-education/10516/conjugation-method-to-transfer-ampicillin-resistance-from-donor-to

（12） 噬菌体转导：氨苄青霉素抗性从供体细菌向受体细菌转移的一种方式（Phage Transduction: A Method to Transfer Ampicillin Resistance from Donor to Recipient E. coli）
https://www.jove.com/science-education/10517/phage-transduction-method-to-transfer-ampicillin-resistance-from

三、化学（Chemistry），https://www.jove.com/science-education/chem 共 90 个视频。**视频全部有中文字幕**

1. 通用化学（General chemistry），https://www.jove.com/science-education-library/16/general-chemistry，**中文字幕和中文文稿**

（1） 实验室玻璃器皿介绍及使用（Common Lab Glassware and Uses）
https://www.jove.com/science-education/10161/common-lab-glassware-and-uses

（2） 溶液及浓度（Solutions and Concentrations）
https://www.jove.com/science-education/10078/solutions-and-concentrations

（3） 测量固体和液体的密度（Determining the Density of a Solid and Liquid）
https://www.jove.com/science-education/10082/determining-the-density-of-a-solid-and-liquid

(4) 测定使溶液的质量百分比（Determining the Mass Percent Composition in an Aqueous Solution）
https://www.jove.com/science-education/10172/determining-the-mass-percent-composition-in-an-aqueous-solution

(5) 实验式的确定（Determining the Empirical Formula）
https://www.jove.com/science-education/10181/determining-the-empirical-formula

(6) 离子化合物的溶解性规律（Determining the Solubility Rules of Ionic Compounds）
https://www.jove.com/science-education/10197/determining-the-solubility-rules-of-ionic-compounds

(7) pH 计的使用（Using a pH Meter）
https://www.jove.com/science-education/5500/using-a-ph-meter

(8) 滴定分析法概述（Introduction to Titration）
https://www.jove.com/science-education/5699/introduction-to-titration

(9) 理想气体定律 (Ideal Gas Law)
https://www.jove.com/science-education/5537/ideal-gas-law

(10) 分光光度法测定平衡常数 (Spectrophotometric Determination of an Equilibrium Constant)
https://www.jove.com/science-education/10094/spectrophotometric-determination-of-an-equilibrium-constant

(11) 勒夏特列原理 (Le Châtelier's Principle)
https://www.jove.com/science-education/10138/le-chatelier-s-principle

(12) 冰点降低法确定未知化合物 (Freezing-Point Depression to Determine an Unknown Compound)
https://www.jove.com/science-education/10137/freezing-point-depression-to-determine-an-unknown-compound

(13) 确定化学反应速率方程和反应顺序(Determining Rate Laws and the Order of Reaction)
https://www.jove.com/science-education/10193/determining-rate-laws-and-the-order-of-reaction

(14) 用差示扫描量热仪测量焓变 (Using Differential Scanning Calorimetry to Measure Changes in Enthalpy)
https://www.jove.com/science-education/5559/using-differential-scanning-calorimetry-to-measure-changes-in-enthalpy

(15) 配位化合物 (Coordination Chemistry Complexes)
https://www.jove.com/science-education/10179/coordination-chemistry-complexes

2. 有机化学（Organic chemistry），https://www.jove.com/science-education-library/17/organic-chemistry，**中文字幕和中文文稿**

(1) 催化作用概述（Introduction to Catalysis）
https://www.jove.com/science-education/52946/introduction-to-catalysis

(2) 应用回流冷凝系统进行化学加热反应（Assembly of a Reflux System for Heated Chemical Reactions）

https://www.jove.com/science-education/5516/assembly-of-a-reflux-system-for-heated-chemical-reactions

(3) 室温下进行化学反应（Conducting Reactions Below Room Temperature）
https://www.jove.com/science-education/10224/conducting-reactions-below-room-temperature

(4) 应用施伦克线进行溶剂转换（Schlenk Lines Transfer of Solvents）
https://www.jove.com/science-education/5679/schlenk-lines-transfer-of-solvents

(5) 应用冷冻-泵吸-解冻循环进行液体脱气（Degassing Liquids with Freeze-Pump-Thaw Cycling）
https://www.jove.com/science-education/5639/degassing-liquids-with-freeze-pump-thaw-cycling

(6)试剂和仪器的干燥（Preparing Anhydrous Reagents and Equipment）
https://www.jove.com/science-education/10227/preparing-anhydrous-reagents-and-equipment

(7) 通过重结晶进行化合物的纯化（Purifying Compounds by Recrystallization）
https://www.jove.com/science-education/10184/purifying-compounds-by-recrystallization

(8) 利用析出条件差异进行混合物的分离（Separation of Mixtures via Precipitation）
https://www.jove.com/science-education/5558/separation-of-mixtures-via-precipitation

(9) 固-液萃取（Solid-Liquid Extraction）
https://www.jove.com/science-education/5538/solid-liquid-extraction

(10) 应用旋转蒸发仪去除溶剂（Rotary Evaporation to Remove Solvent）
https://www.jove.com/science-education/5501/rotary-evaporation-to-remove-solvent

(11) 分馏（Fractional Distillation）
https://www.jove.com/science-education/5700/fractional-distillation

(12) 用于X-射线衍射的晶体制备（Growing Crystals for X-ray Diffraction Analysis）
https://www.jove.com/science-education/10216/growing-crystals-for-x-ray-diffraction-analysis

(13) 一维薄层色谱的应用（Performing 1D Thin Layer Chromatography）
https://www.jove.com/science-education/5499/performing-1d-thin-layer-chromatography

(14) 柱层析（Column Chromatography）
https://www.jove.com/science-education/10217/column-chromatography

(15) 核磁共振波谱法（Nuclear Magnetic Resonance (NMR) Spectroscopy）
https://www.jove.com/science-education/5339/tissue-regeneration-with-somatic-stem-cells

3. 有机化学 II（Organic chemistry），https://www.jove.com/science-education-library/32/organic-chemistry-ii，**中文字幕和中文文稿**

(1) 玻璃器皿清洗（Cleaning Glassware）
https://www.jove.com/science-education/10342/cleaning-glassware

(2) 亲核取代反应（Nucleophilic Substitution）

https://www.jove.com/science-education/10465/nucleophilic-substitution

(3) 还原剂（Reducing Agents）
https://www.jove.com/science-education/10354/reducing-agents

(4) 格氏反应（Grignard Reaction）
https://www.jove.com/science-education/10337/grignard-reaction

(5) 正丁基锂滴定（n-Butyllithium Titration）
https://www.jove.com/science-education/10338/n-butyllithium-titration

(6) 迪安-斯脱克分水器（Dean-Stark Trap）
https://www.jove.com/science-education/10340/dean-stark-trap

(7) 烯烃的臭氧化（Ozonolysis of Alkenes）
https://www.jove.com/science-education/10339/ozonolysis-of-alkenes

(8) 有机催化（Organocatalysis）
https://www.jove.com/science-education/10352/organocatalysis

(9) 钯催化的交叉偶联反应（Palladium-Catalyzed Cross Coupling）
https://www.jove.com/science-education/10353/palladium-catalyzed-cross-coupling

(10) 固相合成（Solid Phase Synthesis）
https://www.jove.com/science-education/10349/solid-phase-synthesis

(11) 氢化反应（Hydrogenation）
https://www.jove.com/science-education/10350/hydrogenation

(12) 聚合反应（Polymerization）
https://www.jove.com/science-education/10357/polymerization

(13) 熔点（Melting Point）
https://www.jove.com/science-education/10356/melting-point

(14) 红外光谱（Infrared Spectroscopy）
https://www.jove.com/science-education/10351/infrared-spectroscopy

(15) 旋光仪（Polarimeter）
https://www.jove.com/science-education/10348/polarimeter

4. 无机化学（Inorganic chemistry） https://www.jove.com/science-education-library/33/inorganic-chemistry，**中文字幕和中文文稿**

(1) 应用施伦克线技术合成 Ati（III）茂金属（Synthesis Of A Ti(III) Metallocene Using Schlenk Line Technique）
https://www.jove.com/science-education/10428/synthesis-of-a-ti-iii-metallocene-using-schlenk-line-technique

(2) 手套箱和杂质感应器（Glovebox and Impurity Sensors）
https://www.jove.com/science-education/10317/glovebox-and-impurity-sensors

(3) 通过升华纯化二茂铁（Purification of Ferrocene by Sublimation）
https://www.jove.com/science-education/10429/purification-of-ferrocene-by-sublimation

(4) Evans 方法（The Evans Method）
https://www.jove.com/science-education/10304/?language=Chinese

(5) 单晶和粉末 X-射线衍射（Single Crystal and Powder X-ray Diffraction）
https://www.jove.com/science-education/10462/single-crystal-and-powder-

x-ray-diffraction

(6) 电子顺磁共振（EPR）光谱（Electron Paramagnetic Resonance (EPR) Spectroscopy）
https://www.jove.com/science-education/10463/electron-paramagnetic-resonance-epr-spectroscopy

(7) 莫斯鲍尔光谱（Mössbauer Spectroscopy）
https://www.jove.com/science-education/10448/mossbauer-spectroscopy

(8) Ph3P-BH3 中的路易斯酸碱相互作用（Lewis Acid-Base Interaction in Ph3P-BH3）
https://www.jove.com/science-education/10316/lewis-acid-base-interaction-in-ph3p-bh3

(9) 二茂铁的结构（Structure Of Ferrocene）
https://www.jove.com/science-education/10347/structure-of-ferrocene

(10) 群论在红外光谱学中的应用（Application of Group Theory to IR Spectroscopy）
https://www.jove.com/science-education/10442/application-of-group-theory-to-ir-spectroscopy

(11) 分子轨道理论（Molecular Orbital (MO) Theory）
https://www.jove.com/science-education/10447/molecular-orbital-mo-theory

(12) ？？？（Quadruply Metal-Metal Bonded Paddlewheels）
https://www.jove.com/science-education/10441/quadruply-metal-metal-bonded-paddlewheels

(13) 染料敏化太阳能电池（Dye-sensitized Solar Cells）
https://www.jove.com/science-education/10328/dye-sensitized-solar-cells

(14) 载氧钴（II）配合物的合成（Synthesis of an Oxygen-Carrying Cobalt(II) Complex）
https://www.jove.com/science-education/10430/synthesis-of-an-oxygen-carrying-cobalt-ii-complex

(15) 自由基聚合反应的光化学引发（Photochemical Initiation Of Radical Polymerization Reactions）
https://www.jove.com/science-education/10461/photochemical-initiation-of-radical-polymerization-reactions

5. 分析化学（analytical chemistry），https://www.jove.com/science-education-library/18/analytical-chemistry，中文字幕和中文文稿

(1) 用于分析特性的样品制备(Sample Preparation for Analytical Characterization)
https://www.jove.com/science-education/10205/sample-preparation-for-analytical-characterization

(2) 内标法（Internal Standards）
https://www.jove.com/science-education/10225/internal-standards

(3) 标准添加法（MSA）(Method of Standard Addition)
https://www.jove.com/science-education/10201/method-of-standard-addition

(4) 矫正曲线（Calibration Curves）

https://www.jove.com/science-education/10188/calibration-curves

(5) 紫外可见（UV-Vis）光谱（Ultraviolet-Visible (UV-Vis) Spectroscopy）
https://www.jove.com/science-education/10204/ultraviolet-visible-uv-vis-spectroscopy

(6) 化学分析中拉曼光谱的应用（Raman Spectroscopy for Chemical Analysis）
https://www.jove.com/science-education/5701/raman-spectroscopy-for-chemical-analysis

(7) X-射线荧光（XRF）（X-ray Fluorescence (XRF)）
https://www.jove.com/science-education/5498/x-ray-fluorescence-xrf

(8) 气相色谱（GC）火焰电离检测（Gas Chromatography (GC) with Flame-Ionization Detection）
https://www.jove.com/science-education/10187/gas-chromatography-gc-with-flame-ionization-detection

(9) 高效液相色谱（HPLC）(High-Performance Liquid Chromatography (HPLC))
https://www.jove.com/science-education/10156/high-performance-liquid-chromatography-hplc

(10) 离子交换色谱（Ion-Exchange Chromatography）
https://www.jove.com/science-education/10269/ion-exchange-chromatography

(11) 毛细管电泳（Capillary Electrophoresis (CE)）
https://www.jove.com/science-education/10226/capillary-electrophoresis-ce

(12) 质谱概述（Introduction to Mass Spectrometry）
https://www.jove.com/science-education/5634/introduction-to-mass-spectrometry

(13) 扫描电子显微镜（SEM）(Scanning Electron Microscopy (SEM))
https://www.jove.com/science-education/5656/scanning-electron-microscopy-sem

(14) 使用恒电位仪/恒电流仪对负载型催化剂进行电化学测量（Electrochemical Measurements of Supported Catalysts Using a Potentiostat/Galvanostat）
https://www.jove.com/science-education/5698/electrochemical-measurements-supported-catalysts-using

(15) 循环伏安法（Cyclic Voltammetry (CV)）
https://www.jove.com/science-education/5502/cyclic-voltammetry-cv

6. 生物化学（Biochemistry），https://www.jove.com/science-education-library/24/biochemistry，中文字幕和中文文稿

(1) 透析：基于扩散原理的分离方法（Dialysis: Diffusion Based Separation）
https://www.jove.com/science-education/5684/dialysis-diffusion-based-separation

(2) 酶活实验及酶促动力学（Enzyme Assays and Kinetics）
https://www.jove.com/science-education/5692/enzyme-assays-and-kinetics

(3) MALDI-TOF 质谱（MALDI-TOF Mass Spectrometry）
https://www.jove.com/science-education/5691/maldi-tof-mass-spectrometry

(4) 串联质谱（Tandem Mass Spectrometry）
https://www.jove.com/science-education/5690/tandem-mass-spectrometry

(5) 蛋白结晶（Protein Crystallization）
https://www.jove.com/science-education/5689/protein-crystallization
(6) 双向凝胶电泳（Two-Dimensional Gel Electrophoresis）
https://www.jove.com/science-education/5686/two-dimensional-gel-electrophoresis
(7) 代谢标记法（Metabolic Labeling）
https://www.jove.com/science-education/5687/metabolic-labeling
(8) 电泳迁移率分析（EMSA）（Electrophoretic Mobility Shift Assay (EMSA)）
https://www.jove.com/science-education/5694/electrophoretic-mobility-shift-assay-emsa
(9) 紫外分光光度法测量蛋白浓度（Photometric Protein Determination）
https://www.jove.com/science-education/5688/photometric-protein-determination
(10) 密度梯度离心（Density Gradient Ultracentrifugation）
https://www.jove.com/science-education/5685/density-gradient-ultracentrifugation
(11) 免疫共沉淀和拉下（pull-down）试验（Co-Immunoprecipitation and Pull-Down Assays）
https://www.jove.com/science-education/5695/co-immunoprecipitation-and-pull-down-assays
(12) 膜蛋白的重构（纯化的膜蛋白重新进入人造膜）（Reconstitution of Membrane Proteins）
https://www.jove.com/science-education/5693/reconstitution-of-membrane-proteins
(13) 荧光共振能量转移（Förster Resonance Energy Transfer (FRET)）
https://www.jove.com/science-education/5696/forster-resonance-energy-transfer-fret
(14) 表面等离子共振（SPR）（Surface Plasmon Resonance (SPR)）
https://www.jove.com/science-education/5697/surface-plasmon-resonance-spr
(15) 基于色谱的生物分子纯化（Chromatography-based Biomolecule Purification Methods）
https://www.jove.com/science-education/5683/chromatography-based-biomolecule-purification-methods

四、环境科学（Environmental Sciences），https://www.jove.com/science-education/envirosci。**共有 45 个视频，全部有中文字幕。**

1. 环境科学（Environmental Sciences），https://www.jove.com/science-education-library/12/environmental-science，**中文字幕和文稿**

(1) 树木识别：二歧分类检索表的应用（Tree Identification: How To Use a Dichotomous Key）
https://www.jove.com/science-education/10070/tree-identification-how-to-use-a-dichotomous-key
(2) 树木调查：以点为中心的四分采样法（Tree Survey: Point-Centered Quarter Sampling Method）

https://www.jove.com/science-education/10060/tree-survey-point-centered-quarter-sampling-method

(3) 应用 GIS（地理信息系统）研究城市森林（Using GIS to Investigate Urban Forestry）
https://www.jove.com/science-education/10075/using-gis-to-investigate-urban-forestry

(4) 质子交换膜燃料电池（Proton Exchange Membrane Fuel Cells）
https://www.jove.com/science-education/10022/proton-exchange-membrane-fuel-cells

(5) 生物燃料：由纤维素材料生产乙醇（Biofuels: Producing Ethanol from Cellulosic Material）
https://www.jove.com/science-education/10014/biofuels-producing-ethanol-from-cellulosic-material

(6) 转基因食品检测（Testing For Genetically Modified Foods）
https://www.jove.com/science-education/10044/testing-for-genetically-modified-foods

(7) 地表水中浊度和总固体的测定（Turbidity and Total Solids in Surface Water）
https://www.jove.com/science-education/10015/turbidity-and-total-solids-in-surface-water

(8) 地表水中溶解氧的测定（Dissolved Oxygen in Surface Water）
https://www.jove.com/science-education/10016/dissolved-oxygen-in-surface-water

(9) 水生生态系统中的营养（Nutrients in Aquatic Ecosystems）
https://www.jove.com/science-education/10023/nutrients-in-aquatic-ecosystems

(10) 对流层臭氧的测定（Measuring Tropospheric Ozone）
https://www.jove.com/science-education/10024/measuring-tropospheric-ozone

(11) 汽车尾气中 NOx 的测定：紫外可见光谱的应用（Determination Of NOx in Automobile Exhaust Using UV-VIS Spectroscopy）
https://www.jove.com/science-education/10076/determination-of-nox-in-automobile-exhaust-using-uv-vis-spectroscopy

(12) 土壤中铅的分析：原子吸收光谱的应用（Lead Analysis of Soil Using Atomic Absorption Spectroscopy）
https://www.jove.com/science-education/10021/lead-analysis-of-soil-using-atomic-absorption-spectroscopy

(13) 环境样本中碳和氮元素的分析（Carbon and Nitrogen Analysis of Environmental Samples）
https://www.jove.com/science-education/10012/carbon-and-nitrogen-analysis-of-environmental-samples

(14) 土壤养分分析：氮磷钾（Soil Nutrient Analysis: Nitrogen, Phosphorus, and Potassium）
https://www.jove.com/science-education/10077/soil-nutrient-analysis-nitrogen-phosphorus-and-potassium

（15） 土壤中蚯蚓种群分析 (Analysis of Earthworm Populations in Soil)
https://www.jove.com/science-education/10002/analysis-of-earthworm-populations-in-soil

2. 环境微生物学（Environmental Microbiology），https://www.jove.com/science-education-library/13/environmental-microbiology，中文字幕和中文文稿
(1) 土壤中水分的测定（Determination of Moisture Content in Soil）
https://www.jove.com/science-education/10011/determination-of-moisture-content-in-soil
(2) 环境科学中的无菌操作（Aseptic Technique in Environmental Science）
https://www.jove.com/science-education/10040/aseptic-technique-in-environmental-science
(3) 环境细菌的革兰氏染色（Gram Staining of Bacteria from Environmental Sources）
https://www.jove.com/science-education/10092/gram-staining-of-bacteria-from-environmental-sources
(4) 应用触片和显微镜观察土壤微生物（Visualizing Soil Microorganisms via the Contact Slide Assay and Microscopy）
https://www.jove.com/science-education/10053/visualizing-soil-microorganisms-via-contact-slide-assay
(5) 丝状真菌（Filamentous Fungi）
https://www.jove.com/science-education/10030/filamentous-fungi
(6)细菌群落总 DNA 的提取（Community DNA Extraction from Bacterial Colonies）
https://www.jove.com/science-education/10218/community-dna-extraction-from-bacterial-colonies
(7) 通过 PCR 和琼脂糖凝胶电泳检测环境微生物（Detecting Environmental Microorganisms with the Polymerase Chain Reaction and Gel Electrophoresis）
https://www.jove.com/science-education/10081/detecting-environmental-microorganisms-with-polymerase-chain-reaction
(8) 通过 RT-PCR 对环境样本进行 RNA 分析（RNA Analysis of Environmental Samples Using RT-PCR）
https://www.jove.com/science-education/10104/rna-analysis-of-environmental-samples-using-rt-pcr
(9)应用 qPCR 对环境微生物和病毒进行定量（Quantifying Environmental Microorganisms and Viruses Using qPCR）
https://www.jove.com/science-education/10186/quantifying-environmental-microorganisms-and-viruses-using-qpcr
(10) 通过指示生物分析水质（Water Quality Analysis via Indicator Organisms）
https://www.jove.com/science-education/10025/water-quality-analysis-via-indicator-organisms
(11) 通过过滤从水样中分离粪便细菌（Isolation of Fecal Bacteria from Water Samples by Filtration）
https://www.jove.com/science-education/10213/isolation-of-fecal-bacteria-from-water-samples-by-filtration
(12) 环境中噬菌体的检测（Detection of Bacteriophages in Environmental

Sample）
https://www.jove.com/science-education/10190/detection-of-bacteriophages-in-environmental-samples

(13) 土壤样本中细菌的培养和计数（Culturing and Enumerating Bacteria from Soil Samples）
https://www.jove.com/science-education/10099/culturing-and-enumerating-bacteria-from-soil-samples

(14) 细菌生长曲线分析及其在环境中的应用（Bacterial Growth Curve Analysis and its Environmental Applications）
https://www.jove.com/science-education/10100/bacterial-growth-curve-analysis-and-its-environmental-applications

(15) 通过可培养的方法进行藻类计数（Algae Enumeration via Culturable Methodology）
https://www.jove.com/science-education/10154/algae-enumeration-via-culturable-methodology

3. 地球科学（Earth Science），https://www.jove.com/science-education-library/15/earth-science，**中文字幕和中文文稿**

(1) 用 Brunton 指南针确定岩石层的空间方向（Determining Spatial Orientation of Rock Layers with the Brunton Compass）
https://www.jove.com/science-education/10086/determining-spatial-orientation-rock-layers-with-brunton

(2) 用拓扑地图生成地形剖面图（Using Topographic Maps to Generate Topographic Profiles）
https://www.jove.com/science-education/10105/using-topographic-maps-to-generate-topographic-profiles

(3) 测制地质剖面（Making a Geologic Cross Section）
https://www.jove.com/science-education/10176/making-a-geologic-cross-section

(4) 矿物质的物理性质 I：晶体和解理（Physical Properties Of Minerals I: Crystals and Cleavage）
https://www.jove.com/science-education/10007/physical-properties-of-minerals-i-crystals-and-cleavage

(5) 矿物的物理性质 II：矿物分析（Physical Properties Of Minerals II: Polymineralic Analysis）
https://www.jove.com/science-education/10001/physical-properties-of-minerals-ii-polymineralic-analysis

(6) 火成火山岩（Igneous Volcanic Rock）
https://www.jove.com/science-education/10037/igneous-volcanic-rock

(7) 岩浆岩（火成岩）（Igneous Intrusive Rock）
https://www.jove.com/science-education/10036/igneous-intrusive-rock

(8) 古气候学 bGDGT 生物标志物分析概述（An Overview of bGDGT Biomarker Analysis for Paleoclimatology）
https://www.jove.com/science-education/10256/an-overview-of-bgdgt-biomarker-analysis-for-paleoclimatology

(9) ？？？（An Overview of Alkenone Biomarker Analysis for Paleothermometry）
https://www.jove.com/science-education/10219/an-overview-of-alkenone-biomarker-analysis-for-paleothermometry

(10) 从沉积物提取脂质生物标志物-超声法（Sonication Extraction of Lipid Biomarkers from Sediment）
https://www.jove.com/science-education/10055/sonication-extraction-of-lipid-biomarkers-from-sediment

(11) 从沉积物中提取脂质生物标志物-索氏提取法（连续提取法）的应用（Soxhlet Extraction of Lipid Biomarkers from Sediment）
https://www.jove.com/science-education/10096/soxhlet-extraction-of-lipid-biomarkers-from-sediment

(12) 从沉积物中提取生物标志物-加速溶剂萃取的应用（Extraction of Biomarkers from Sediments - Accelerated Solvent Extraction）
https://www.jove.com/science-education/10097/extraction-of-biomarkers-from-sediments-accelerated-solvent-extraction

(13) ？？？（Conversion of Fatty Acid Methyl Esters by Saponification for $U^{k'}_{37}$ Paleothermometry）
https://www.jove.com/science-education/10158/conversion-fatty-acid-methyl-esters-saponification-for-uk-37

(14) 应用柱色谱层析纯化总脂质提取物（Purification of a Total Lipid Extract with Column Chromatography）
https://www.jove.com/science-education/10159/purification-of-a-total-lipid-extract-with-column-chromatography

(15) ？？？（Removal of Branched and Cyclic Compounds by Urea Adduction for $U^{k'}_{37}$ Paleothermometry）
https://www.jove.com/science-education/10160/removal-branched-cyclic-compounds-urea-adduction-for-uk-37

五、物理学（Physics），https://www.jove.com/science-education/physics。共有 30 个视频，全部有中文字幕。

1. 物理学 I（Physics I），https://www.jove.com/science-education-library/28/physics-i，中文字幕和中文文稿

（1） 牛顿力学定律（Newton's Laws of Motion）
https://www.jove.com/science-education/10038/newton-s-laws-of-motion

（2） 力与加速度（Force and Acceleration）
https://www.jove.com/science-education/10346/force-and-acceleration

（3） 多维向量（多方向矢量）（Vectors in Multiple Directions）
https://www.jove.com/science-education/10315/vectors-in-multiple-directions

（4） 运动学和弹丸运动（Kinematics and Projectile Motion）
https://www.jove.com/science-education/10314/kinematics-and-projectile-motion

（5） 牛顿万有引力定律（Newton's Law of Universal Gravitation）
https://www.jove.com/science-education/10325/newton-s-law-of-

universal-gravitation

(6) 动量守恒（Conservation of Momentum）
https://www.jove.com/science-education/10323/conservation-of-momentum

(7) 摩擦（Friction）
https://www.jove.com/science-education/10324/friction

(8) 胡克定律和简谐运动（Hooke's Law and Simple Harmonic Motion）
https://www.jove.com/science-education/10326/hooke-s-law-and-simple-harmonic-motion

(9) 平衡图和自由体图（Equilibrium and Free-body Diagrams）
https://www.jove.com/science-education/10359/equilibrium-and-free-body-diagrams

(10) 扭力（Torque）
https://www.jove.com/science-education/10345/torque

(11) 转动惯量（Rotational Inertia）
https://www.jove.com/science-education/10327/rotational-inertia

(12) 角动量（Angular Momentum）
https://www.jove.com/science-education/10358/angular-momentum

(13) 功和能（Energy and Work）
https://www.jove.com/science-education/10313/energy-and-work

(14) 焓（Enthalpy）
https://www.jove.com/science-education/10344/enthalpy

(15) 熵（Entropy）
https://www.jove.com/science-education/10343/entropy

2. 物理学 II（Environmental Microbiology），https://www.jove.com/science-education-library/29/physics-ii，**中文字幕和中文文稿**

(1) 电场（Electric Fields）
https://www.jove.com/science-education/10322/electric-fields

(2) 电位（Electric Potential）
https://www.jove.com/science-education/10329/electric-potential

(3) 磁场（Magnetic Fields）
https://www.jove.com/science-education/10384/magnetic-fields

(4) 磁场中的电荷（Electric Charge in a Magnetic Field）
https://www.jove.com/science-education/10133/electric-charge-in-a-magnetic-field

(5) 欧姆和非欧姆导体的欧姆定律研究（Investigation Ohm's Law for Ohmic and Nonohmic Conductors）
https://www.jove.com/science-education/10116/investigation-ohm-s-law-for-ohmic-and-nonohmic-conductors

(6) 串联和并联电阻（Series and Parallel Resistors）
https://www.jove.com/science-education/10289/series-and-parallel-resistors

(7) 电容（Capacitance）
https://www.jove.com/science-education/10296/capacitance

(8) 电感（Inductance）
https://www.jove.com/science-education/10303/inductance

(9)RC / RL / LC 电路（RC/RL/LC Circuits）
https://www.jove.com/science-education/10318/rcrllc-circuits
(10) 半导体（Semiconductors）
https://www.jove.com/science-education/10410/semiconductors
(11) 光电效应（Photoelectric Effect）
https://www.jove.com/science-education/10413/photoelectric-effect
(12) 反射和折射（Reflection and Refraction）
https://www.jove.com/science-education/10409/reflection-and-refraction
(13) 干涉和衍射（Interference and Diffraction）
https://www.jove.com/science-education/10424/interference-and-diffraction
(14) 驻波（Standing Waves）
https://www.jove.com/science-education/10412/standing-waves
(15) 声波和多普勒频移（Sound Waves and Doppler Shift）
https://www.jove.com/science-education/10411/sound-waves-and-doppler-shift

六、医学临床操作 （Clinical skills），https://www.jove.com/science-education/clinicskills 共 72 个视频。**视频全部有中文字幕。**

1. 身体检查 I（Physical examinations I），https://www.jove.com/science-education-library/19/physical-examinations-i，**中文字幕和中文文稿**

(1) 身体检查的基本方法（General Approach to the Physical Exam）
https://www.jove.com/science-education/10043/general-approach-to-the-physical-exam
(2) 视诊（Observation and Inspection）
https://www.jove.com/science-education/10119/observation-and-inspection
(3) 触诊（Palpation）
https://www.jove.com/science-education/10143/palpation
(4) 叩诊（Percussion）
https://www.jove.com/science-education/10136/percussion
(5) 听诊（Auscultation）
https://www.jove.com/science-education/10153/auscultation
(6) 病人身体检查时着装要求（Proper Adjustment of Patient Attire during the Physical Exam）
https://www.jove.com/science-education/10147/proper-adjustment-of-patient-attire-during-the-physical-exam
(7) 血压测量（Blood Pressure Measurement）
https://www.jove.com/science-education/10083/blood-pressure-measurement
(8) 测量生命体征（Measuring Vital Signs）
https://www.jove.com/science-education/10107/measuring-vital-signs
(9) 呼吸检查 I：视诊和触诊（Respiratory Exam I: Inspection and Palpation）
https://www.jove.com/science-education/10028/respiratory-exam-i-inspection-and-palpation
(10) 呼吸检查 II：叩诊与听诊（Respiratory Exam II: Percussion and Auscultation）

https://www.jove.com/science-education/10041/respiratory-exam-ii-percussion-and-auscultation

（11） 心脏检查 I：视诊与触诊（Cardiac Exam I: Inspection and Palpation)
https://www.jove.com/science-education/10071/cardiac-exam-i-inspection-and-palpation

（12） 心脏检查 II：听诊（Cardiac Exam II: Auscultation)
https://www.jove.com/science-education/10124/cardiac-exam-ii-auscultation

（13） 心脏检查 III：心音异常（Cardiac Exam III: Abnormal Heart Sounds)
https://www.jove.com/science-education/10135/cardiac-exam-iii-abnormal-heart-sounds

（14） 外周血管检查（Peripheral Vascular Exam)
https://www.jove.com/science-education/10122/peripheral-vascular-exam

（15） 使用连续波多普勒的外周血管检查（Peripheral Vascular Exam Using a Continuous Wave Doppler)
https://www.jove.com/science-education/10123/peripheral-vascular-exam-using-a-continuous-wave-doppler

2. 身体检查 II （Physical examinations II）https://www.jove.com/science-education-library/20/physical-examinations-ii，**中文字幕和中文文稿**

(1) 眼科检查（Eye Exam)
https://www.jove.com/science-education/10149/eye-exam

(2) 眼底检查（Ophthalmoscopic Examination）
https://www.jove.com/science-education/10146/ophthalmoscopic-examination

(3) 耳科检查（Ear Exam）
https://www.jove.com/science-education/10148/ear-exam

(4) 鼻子，鼻窦，口腔和咽部检查（Nose, Sinuses, Oral Cavity and Pharynx Exam）
https://www.jove.com/science-education/10152/nose-sinuses-oral-cavity-and-pharynx-exam

(5) 甲状腺检查（Thyroid Exam）
https://www.jove.com/science-education/10098/thyroid-exam

(6) 淋巴结检查（Lymph Node Exam）
https://www.jove.com/science-education/10061/lymph-node-exam

(7) 腹部检查 I：视诊和听诊（Abdominal Exam I: Inspection and Auscultation）
https://www.jove.com/science-education/10088/abdominal-exam-i-inspection-and-auscultation

(8) 腹部检查 II：叩诊（Abdominal Exam II: Percussion）
https://www.jove.com/science-education/10090/abdominal-exam-ii-percussion

(9) 腹部检查 III：触诊（Abdominal Exam III: Palpation）
https://www.jove.com/science-education/10089/abdominal-exam-iii-palpation

(10) 腹部检查 IV：急性腹痛评估（Abdominal Exam IV: Acute Abdominal Pain Assessment）
https://www.jove.com/science-education/10120/abdominal-exam-iv-acute-abdominal-pain-assessment

(11) 男性直肠探查（Male Rectal Exam）
https://www.jove.com/science-education/10102/male-rectal-exam

(12) 乳房检查（Comprehensive Breast Exam）
https://www.jove.com/science-education/10118/comprehensive-breast-exam
(13) 盆腔检查 I：外生殖器检查（Pelvic Exam I: Assessment of the External Genitalia）
https://www.jove.com/science-education/5056/pcr-?language=Chinese
(14) 盆腔检查 II：内窥镜检查（Pelvic Exam II: Speculum Exam）
https://www.jove.com/science-education/10141/pelvic-exam-ii-speculum-exam
(15) 盆腔检查 III：双合诊和直肠阴道检查（Pelvic Exam III: Bimanual and Rectovaginal Exam）
https://www.jove.com/science-education/10163/pelvic-exam-iii-bimanual-and-rectovaginal-exam

3. 身体检查 III（Physical examinations III）https://www.jove.com/science-education-library/25/physical-examinations-iii，**中文字幕和中文文稿**
(1) 颅神经检查 I（I-VI）（Cranial Nerves Exam I (I-VI)）
https://www.jove.com/science-education/10091/cranial-nerves-exam-i-i-vi
(2) 颅神经检查 II（VII-XII）（Cranial Nerves Exam II (VII-XII)）
https://www.jove.com/science-education/10005/cranial-nerves-exam-ii-vii-xii
(3) 运动系统检查 I（Motor Exam I）
https://www.jove.com/science-education/10052/motor-exam-i
(4) 运动系统检查 II（Motor Exam II）
https://www.jove.com/science-education/10095/motor-exam-ii
(5) 感官检查（Sensory Exam）
https://www.jove.com/science-education/10113/sensory-exam
(6) 颈部检查（Neck Exam）
https://www.jove.com/science-education/10180/neck-exam
(7) 肩部检查 I（Shoulder Exam I）
https://www.jove.com/science-education/10173/shoulder-exam-i
(8) 肩部检查 II（Shoulder Exam II）
https://www.jove.com/science-education/10185/shoulder-exam-ii
(9) 肘部检查（Elbow Exam）
https://www.jove.com/science-education/10207/elbow-exam
(10) 手腕和手部检查（Wrist and Hand Examination）
https://www.jove.com/science-education/10242/wrist-and-hand-examination
(11) 下背部检查（Lower Back Exam）
https://www.jove.com/science-education/10177/lower-back-exam
(12) 髋关节检查（Hip Exam）
https://www.jove.com/science-education/10174/hip-exam
(13) 膝盖检查（Knee Exam）
https://www.jove.com/science-education/10203/knee-exam
(14) 足踝检查（Ankle Exam）
https://www.jove.com/science-education/10191/ankle-exam

(15) 足部检查（Foot Exam）
https://www.jove.com/science-education/10192/foot-exam

4. 急疹医学与重症护理（Emergency medicine and critical care）
https://www.jove.com/science-education-library/26/emergency-medicine-and-critical-care，中文字幕和中文文稿
   (1) 基本生命维持：心肺复苏和除颤（Basic Life Support: Cardiopulmonary Resuscitation and Defibrillation）
   https://www.jove.com/science-education/10199/basic-life-support-cardiopulmonary-resuscitation-and-defibrillation
   (2) 基本生命维持 II：气道/呼吸和持续心肺复苏（Basic Life Support Part II: Airway/Breathing and Continued Cardiopulmonary Resuscitation）
   https://www.jove.com/science-education/10232/basic-life-support-part-ii-airwaybreathing-continued-cardiopulmonary
   (3) 心包穿刺术（Pericardiocentesis）
   https://www.jove.com/science-education/10236/pericardiocentesis
   (4) 侧眦切开术和下眦切开术（Lateral Canthotomy and Inferior Cantholysis）
   https://www.jove.com/science-education/10266/lateral-canthotomy-and-inferior-cantholysis
   (5) 经皮环甲膜切开（Percutaneous Cricothyrotomy）
   https://www.jove.com/science-education/10239/percutaneous-cricothyrotomy
   (6) 开颅手术（Open Cricothyrotomy）
   https://www.jove.com/science-education/10284/open-cricothyrotomy
   (7) 胸腔穿刺（Needle Thoracostomy）
   https://www.jove.com/science-education/10233/needle-thoracostomy
   (8) 急疹开胸管插入（Tube Thoracostomy）
   https://www.jove.com/science-education/10283/tube-thoracostomy
   (9) 关节内肩部注射减少肩关节脱位（Intra-articular Shoulder Injection for Reduction Following Shoulder Dislocation）
   https://www.jove.com/science-education/10282/intra-articular-shoulder-injection-for-reduction-following-shoulder
   (10) 动脉管路的置入（有创血压监测）（Arterial Line Placement）
   https://www.jove.com/science-education/10178/arterial-line-placement
   (11) 骨内针置入（Intraosseous Needle Placement）
   https://www.jove.com/science-education/10312/intraosseous-needle-placement
   (12) 外周静脉插管（Peripheral Venous Cannulation）
   https://www.jove.com/science-education/10200/peripheral-venous-cannulation
   (13) 中央静脉导管插入：颈内静脉（Central Venous Catheter Insertion: Internal Jugular）
   https://www.jove.com/science-education/10237/central-venous-catheter-insertion-internal-jugular
   (14) 中央静脉导管插入：股静脉（Central Venous Catheter Insertion: Femoral Vein）

https://www.jove.com/science-education/10240/central-venous-catheter-insertion-femoral-vein

(15) 中央静脉导管插入：锁骨下静脉（Central Venous Catheter Insertion: Subclavian Vein）
https://www.jove.com/science-education/10241/central-venous-catheter-insertion-subclavian-vein

5. 护士操作（Nurse skills），https://www.jove.com/science-education-library/27/nursing-skills，**中文字幕和中文文稿**
   (1) 药物管理的五项原则和安全检查（Safety Checks and Five Rights of Medication Administration）
   https://www.jove.com/science-education/10235/safety-checks-and-five-rights-of-medication-administration
   (2) 口服片剂和液体药物的准备与管理（Preparing and Administering Oral Tablet and Liquid Medications）
   https://www.jove.com/science-education/10258/preparing-and-administering-oral-tablet-and-liquid-medications
   (3) 局部用药的管理与准备（Preparing and Administering Topical Medications）
   https://www.jove.com/science-education/10259/preparing-and-administering-topical-medications
   (4) 吸入药物的管理与准备（Preparing and Administering Inhaled Medications）
   https://www.jove.com/science-education/10390/preparing-and-administering-inhaled-medications
   (5) 皮下药物的准备和管理（Preparing and Administering Subcutaneous Medications）
   https://www.jove.com/science-education/10234/preparing-and-administering-subcutaneous-medications
   (6) 肌肉注射药物的准备和管理（Preparing and Administering Intramuscular Injections）
   https://www.jove.com/science-education/10261/preparing-and-administering-intramuscular-injections
   (7) 肠胃药物的准备和管理（Preparing and Administering Enteric Tube Medications）
   https://www.jove.com/science-education/10287/preparing-and-administering-enteric-tube-medications
   (8) 外周静脉导管的插入（Peripheral Intravenous Catheter Insertion）
   https://www.jove.com/science-education/10264/peripheral-intravenous-catheter-insertion
   (9) 外周静脉管线的评价和冲洗（Assessing and Flushing a Peripheral Intravenous Line）
   https://www.jove.com/science-education/10265/assessing-and-flushing-a-peripheral-intravenous-line
   (10) 维持性静脉补液的使用（Initiating Maintenance IV Fluids）
   https://www.jove.com/science-education/10274/initiating-maintenance-iv-fluids

(11) 静脉推注药物的管理和准备（Preparing and Administering IV Push Medications）
https://www.jove.com/science-education/10262/preparing-and-administering-iv-push-medications

(12) 间歇性静脉药物注入泵的准备和管理（Preparing and Administering Intermittent Intravenous Medications with an Infusion Pump）
https://www.jove.com/science-education/10277/preparing-administering-intermittent-intravenous-medications-with-an

(13) 二级间歇静脉药物的准备和管理（Preparing and Administering Secondary Intermittent Intravenous Medications）
https://www.jove.com/science-education/10288/preparing-administering-secondary-intermittent-intravenous

(14) 停止静脉输液和周围静脉输液管（Discontinuing Intravenous Fluids and a Peripheral Intravenous Line）
https://www.jove.com/science-education/10278/discontinuing-intravenous-fluids-and-a-peripheral-intravenous-line

(15) 中心静脉导管换药（Central Venous Access Device Dressing Change）
https://www.jove.com/science-education/10311/central-venous-access-device-dressing-change

6. 2019 年新型冠状病毒相关操作（Cronavirus/covid-19 procedures）
https://www.jove.com/science-education-library/100/coronavirus-covid-19-procedures，**中文字幕和中文文稿**

(1) 在针对流行病进行了优化的快速部署设施内对患者进行鼻拭子测试（Performing a Nasal Swab Test on Patients inside a Rapidly Deployable Facility Optimized for Epidemics）
https://www.jove.com/science-education/6426/covid-19-coronavirus-outbreak-performing-nasal-swab-test-on-patients

(2) 医护人员个人防护设备的穿脱（Donning and Doffing Personal Protective Equipment (PPE) for Healthcare Providers）
https://www.jove.com/science-education/10373/emergency-eyewash-and-shower-stations

(3) 医护人员手部消毒指南（Guidance for Hand Hygiene for Healthcare Providers to Ensure a Safe and Healthy Environment）
https://www.jove.com/science-education/10364/electrical-safety

(4) 针对流行病进行的优化的快速部署医疗设施（智能 Pod）（A Rapidly Deployable Medical Facility Optimized for Epidemics (Smart Pod)）
https://www.jove.com/science-education/6423/covid-19-coronavirus-outbreak-rapidly-deployable-medical-facility

(5) 气道保护与气管插管（Protecting The Airway - Endotracheal Intubation）
https://www.jove.com/science-education/6430/covid-19-coronavirus-outbreak-protecting-airway-endotracheal

(6) 如何进行支气管镜检查（How To Perform A Bronchoscopy）
https://www.jove.com/science-education/6431/covid-19-coronavirus-outbreak-how-to-perform-a-bronchoscopy

(7) 通过放置中央静脉导管建立中央静脉通路（How To Establish A Central Venous Access By Placing A Central Venous Catheter）
https://www.jove.com/science-education/6432/covid-19-coronavirus-outbreak-how-to-establish-central-venous-access

(8) PiCCO 血流动力学监测（Hemodynamic monitoring with PiCCO artery）
https://www.jove.com/science-education/6433/covid-19-coronavirus-outbreak-hemodynamic-monitoring-with-picco-artery

(9) 如何进行血样的细菌培养 (How to take blood cultures)
https://www.jove.com/science-education/6434/covid-19-coronavirus-outbreak-how-to-take-blood-cultures

(10) 如何使新冠患者呈俯卧位 (How to perform complete prone positioning in COVID-Patients)
https://www.jove.com/science-education/6435/covid-19-coronavirus-outbreak-how-to-perform-complete-prone

(11) 进入病房前个人防护设备的穿戴 (Donning Personal Protective Equipment Before Entering A Patient Room)
https://www.jove.com/science-education/6428/covid-19-coronavirus-outbreak-donning-personal-protective-equipment

(12) 离开病房时个人防护装备的脱下 (Doffing Personal Protective Equipment When Exiting A Patient Room)
https://www.jove.com/science-education/6429/covid-19-coronavirus-outbreak-doffing-personal-protective-equipment

七、心理学（Psychology），https://www.jove.com/science-education/psyc 共 105 个视频。
视频全部有中文字幕。

1. 行为科学（Behavioral Science），https://www.jove.com/science-education-library/7/behavioral-science 中文字幕和中文文稿

(1) 学习与记忆概述（An Introduction to Learning and Memory）
https://www.jove.com/science-education/5416/an-introduction-to-learning-and-memory

(2) 恐惧调节（Fear Conditioning）
https://www.jove.com/science-education/5417/fear-conditioning

(3) 使用迷宫进行空间记忆测试（Spatial Memory Testing Using Mazes）
https://www.jove.com/science-education/5418/spatial-memory-testing-using-mazes

(4) 认知概述（An Introduction to Cognition）
https://www.jove.com/science-education/5419/an-introduction-to-cognition

(5) 脑电图（EEG）(Electro-encephalography (EEG))
https://www.jove.com/science-education/5420/electro-encephalography-eeg

(6) 认知实验中的眼动追踪（Eye Tracking in Cognitive Experiments）
https://www.jove.com/science-education/5421/eye-tracking-in-cognitive-experiments

(7) 运动控制概述（An Introduction to Motor Control）
https://www.jove.com/science-education/5422/an-introduction-to-motor-

control

(8) 平衡性和协调性测试（Balance and Coordination Testing）
https://www.jove.com/science-education/5423/balance-and-coordination-testing

(9) 通过达成任务评估敏捷性（Assessing Dexterity with Reaching Tasks）
https://www.jove.com/science-education/5424/assessing-dexterity-with-reaching-tasks

(10) 奖赏效应和成瘾性概述（An Introduction to Reward and Addiction）
https://www.jove.com/science-education/5425/an-introduction-to-reward-and-addiction

(11) 积极强化研究（Positive Reinforcement Studies）
https://www.jove.com/science-education/5426/positive-reinforcement-studies

(12) 自我管理研究（Self-administration Studies）
https://www.jove.com/science-education/5427/self-administration-studies

(13) 行为障碍和压力建模概述（An Introduction to Modeling Behavioral Disorders and Stress）
https://www.jove.com/science-education/5428/an-introduction-to-modeling-behavioral-disorders-and-stress

(14) 社交压力模拟（Modeling Social Stress）
https://www.jove.com/science-education/5429/modeling-social-stress

(15) 焦虑测试（Anxiety Testing）
https://www.jove.com/science-education/5430/anxiety-testing

2. 试验心理学（Experimental Psychology） https://www.jove.com/science-education-library/10/experimental-psychology 中文字幕和中文文稿

(1) 从理论到设计：创新在设计实验中的作用（From Theory to Design: The Role of Creativity in Designing Experiments）
https://www.jove.com/science-education/10047/from-theory-to-design-the-role-of-creativity-in-designing-experiments

(2) 心理学研究中的伦理（Ethics in Psychology Research）
https://www.jove.com/science-education/10045/ethics-in-psychology-research

(3) 试验心理学的观点（Perspectives on Experimental Psychology）
https://www.jove.com/science-education/10169/perspectives-on-experimental-psychology

(4) 实验中的真实性（Realism in Experimentation）
https://www.jove.com/science-education/10033/realism-in-experimentation

(5) 试点测试（Pilot Testing）
https://www.jove.com/science-education/10031/pilot-testing

(6) 观察研究（Observational Research）
https://www.jove.com/science-education/10048/observational-research

(7) 简单试验设计：二分组试验（The Simple Experiment: Two-group Design）
https://www.jove.com/science-education/10056/the-simple-experiment-two-group-design

(8) 多组试验（The Multi-group Experiment）

https://www.jove.com/science-education/10057/the-multi-group-experiment

(9) 受试者内重复测量设计（Within-subjects Repeated-measures Design）
https://www.jove.com/science-education/10034/within-subjects-repeated-measures-design

(10) Factorial Experiment（The Factorial Experiment）
https://www.jove.com/science-education/10058/the-factorial-experiment

(11) 自我报告与行为措施的回收（Self-report vs. Behavioral Measures of Recycling）
https://www.jove.com/science-education/10050/self-report-vs-behavioral-measures-of-recycling

(12) 心理学实验的信度（Reliability in Psychology Experiments）
https://www.jove.com/science-education/10046/reliability-in-psychology-experiments

(13) 研究中的安慰剂（Placebos in Research）
https://www.jove.com/science-education/10032/placebos-in-research

(14) 具身认知中独立变量的操控（Manipulating an Independent Variable through Embodiment）
https://www.jove.com/science-education/10049/manipulating-an-independent-variable-through-embodiment

(15) 运用试验同盟者的试验（Experimentation using a Confederate）
https://www.jove.com/science-education/10051/experimentation-using-a-confederate

3. 认知心理学（Cognitive Psychology）https://www.jove.com/science-education-library/11/cognitive-psychology 中文字幕和中文文稿

(1) 双向听力法（Dichotic Listening）
https://www.jove.com/science-education/10101/dichotic-listening

(2) 测量反应时间和唐德思减法法（Measuring Reaction Time and Donders' Method of Subtraction）
https://www.jove.com/science-education/10087/measuring-reaction-time-and-donders-method-of-subtraction

(3) 认知心理学观点（Perspectives on Cognitive Psychology）
https://www.jove.com/science-education/10170/perspectives-on-cognitive-psychology

(4) 特征和联系的视觉搜索（Visual Search for Features and Conjunctions）
https://www.jove.com/science-education/10062/visual-search-for-features-and-conjunctions

(5) 双目竞争（Binocular Rivalry）
https://www.jove.com/science-education/10065/binocular-rivalry

(6) 多目标跟踪（Multiple Object Tracking）
https://www.jove.com/science-education/10019/multiple-object-tracking

(7) 近似数感测（Approximate Number Sense Test）
https://www.jove.com/science-education/10121/approximate-number-sense-test

(8) 心理旋转（Mental Rotation）

https://www.jove.com/science-education/10115/mental-rotation

(9) 前景理论（Prospect Theory）
https://www.jove.com/science-education/10059/prospect-theory

(10) 测量言语工作记忆广度（Measuring Verbal Working Memory Span）
https://www.jove.com/science-education/10006/measuring-verbal-working-memory-span

(11) 延迟估计的视觉工作记忆的精度（The Precision of Visual Working Memory with Delayed Estimation）
https://www.jove.com/science-education/10020/the-precision-of-visual-working-memory-with-delayed-estimation

(12) 口头的启动（Verbal Priming）
https://www.jove.com/science-education/10026/verbal-priming

(13) 偶发编码方式（Incidental Encoding）
https://www.jove.com/science-education/10103/incidental-encoding

(14) 视觉统计学习（Visual Statistical Learning）
https://www.jove.com/science-education/10063/visual-statistical-learning

(15) 镜像中的运动学习（Motor Learning in Mirror Drawing）
https://www.jove.com/science-education/10064/motor-learning-in-mirror-drawing

4. 发展心理学（Developmental Psychology） https://www.jove.com/science-education-library/14/developmental-psychology，**中文字幕和中文文稿**

(1) 习惯：在婴儿说话之前先对其进行研究（Habituation: Studying Infants Before They Can Talk）
https://www.jove.com/science-education/5129/?language=Chinese

(2) 用脑：衡量婴儿对行为的理性模仿（Using Your Head: Measuring Infants' Rational Imitation of Actions）
https://www.jove.com/science-education/10069/using-your-head-measuring-infants-rational-imitation-of-actions

(3) Rouge 测试：寻找自我意识（The Rouge Test: Searching for a Sense of Self）
https://www.jove.com/science-education/10111/the-rouge-test-searching-for-a-sense-of-self

(4) 数值认知：或多或少（Numerical Cognition: More or Less）
https://www.jove.com/science-education/10093/numerical-cognition-more-or-less

(5) 互斥：儿童如何学习单词的含义（Mutual Exclusivity: How Children Learn the Meanings of Words）
https://www.jove.com/science-education/10132/mutual-exclusivity-how-children-learn-the-meanings-of-words

(6) 儿童如何使用因果推理解决问题（How Children Solve Problems Using Causal Reasoning）
https://www.jove.com/science-education/10110/how-children-solve-problems-using-causal-reasoning

(7) 元认知发展：儿童如何评估自己的记忆（Metacognitive Development: How Children Estimate Their Memory）

https://www.jove.com/science-education/10084/metacognitive-development-how-children-estimate-their-memory

(8) 功能执行和尺寸变更卡排序任务（Executive Function and the Dimensional Change Card Sort Task）
https://www.jove.com/science-education/10085/executive-function-and-the-dimensional-change-card-sort-task

(9) 类别和归纳推理（Categories and Inductive Inferences）
https://www.jove.com/science-education/10109/categories-and-inductive-inferences

(10) 自然教育学的成本和收益（The Costs and Benefits of Natural Pedagogy）
https://www.jove.com/science-education/10128/the-costs-and-benefits-of-natural-pedagogy

(11) 皮亚杰守恒任务及任务需求的影响（Piaget's Conservation Task and the Influence of Task Demands）
https://www.jove.com/science-education/10131/piaget-s-conservation-task-and-the-influence-of-task-demands

(12) 儿童识别图片时对艺术家意图的依赖（Children's Reliance on Artist Intentions When Identifying Pictures）
https://www.jove.com/science-education/10117/children-s-reliance-on-artist-intentions-when-identifying-pictures

(13) 衡量儿童对证言的信任（Measuring Children's Trust in Testimony）
https://www.jove.com/science-education/10130/measuring-children-s-trust-in-testimony

(14) 你是聪明还是勤奋？ 赞美如何影响孩子的动机（Are You Smart or Hardworking? How Praise Influences Children's Motivation）
https://www.jove.com/science-education/10112/are-you-smart-or-hardworking-how-praise-influences-children-s

(15) 记忆发展：反复询问如何导致错误的记忆（Memory Development: Demonstrating How Repeated Questioning Leads to False Memories）
https://www.jove.com/science-education/10129/memory-development-demonstrating-how-repeated-questioning-leads-to

5. 神经心理学（Neuropsychology） https://www.jove.com/science-education-library/21/neuropsychology，中文字幕和中文文稿

(1) 裂脑（The Split Brain）
https://www.jove.com/science-education/10162/the-split-brain

(2) 运动地图（Motor Maps）
https://www.jove.com/science-education/10175/motor-maps

(3) 神经心理学的观点（Perspectives on Neuropsychology）
https://www.jove.com/science-education/10320/perspectives-on-neuropsychology

(4) 决策与爱荷华州赌博任务（Decision-making and the Iowa Gambling Task）
https://www.jove.com/science-education/10208/decision-making-and-the-iowa-gambling-task

(5) 自闭症谱系障碍的执行功能（Executive Function in Autism Spectrum Disorder）
https://www.jove.com/science-education/10268/executive-function-in-autism-spectrum-disorder
(6) 顺行性失忆症（Anterograde Amnesia）
https://www.jove.com/science-education/10301/anterograde-amnesia
(7) 情绪识别的生理相关性（Physiological Correlates of Emotion Recognition）
https://www.jove.com/science-education/10297/physiological-correlates-of-emotion-recognition
(8) 事件相关电位和奇数任务（Event-related Potentials and the Oddball Task）
https://www.jove.com/science-education/10273/event-related-potentials-and-the-oddball-task
(9) 语言：语义不一致的 N400（Language: The N400 in Semantic Incongruity）
https://www.jove.com/science-education/10275/language-the-n400-in-semantic-incongruity
(10) 学习和记忆：记住的任务（Learning and Memory: The Remember-Know Task）
https://www.jove.com/science-education/10212/learning-and-memory-the-remember-know-task
(11) 使用基于体素的形态测量法测量灰度差异：音乐大脑（Measuring Grey Matter Differences with Voxel-based Morphometry: The Musical Brain）
https://www.jove.com/science-education/10299/measuring-grey-matter-differences-with-voxel-based-morphometry
(12) 多体素模式分析解码听觉成像（Decoding Auditory Imagery with Multivoxel Pattern Analysis）
https://www.jove.com/science-education/10267/decoding-auditory-imagery-with-multivoxel-pattern-analysis
(13) 视觉关注：基于对象的注意调控的功能性核磁共振成像（fMRI）研究（Visual Attention: fMRI Investigation of Object-based Attentional Control）
https://www.jove.com/science-education/10272/visual-attention-fmri-investigation-object-based-attentional
(14) 在颅脑外伤中使用扩散张量成像（Using Diffusion Tensor Imaging in Traumatic Brain Injury）
https://www.jove.com/science-education/10276/using-diffusion-tensor-imaging-in-traumatic-brain-injury
(15) 在行动观察期间使用 TMS 测量动作的兴奋性（Using TMS to Measure Motor Excitability During Action Observation）
https://www.jove.com/science-education/10270/using-tms-to-measure-motor-excitability-during-action-observation

6. 感觉和知觉（Sensation and Perception）https://www.jove.com/science-education-library/22/sensation-and-perception，中文字幕和中文文稿
(1) 影象残留的颜色（Color Afterimages）
https://www.jove.com/science-education/10194/color-afterimages
(2) 找到你的盲点和感性充填在（Finding Your Blind Spot and Perceptual Filling-in）

https://www.jove.com/science-education/10195/finding-your-blind-spot-and-perceptual-filling-in

(3) 感觉和知觉的观点（Perspectives on Sensation and Perception）
https://www.jove.com/science-education/10321/perspectives-on-sensation-and-perception

(4) 运动诱导的失明（Motion-induced Blindness）
https://www.jove.com/science-education/10196/motion-induced-blindness

(5) 橡胶手错觉（The Rubber Hand Illusion）
https://www.jove.com/science-education/10291/the-rubber-hand-illusion

(6) 艾姆斯房间（The Ames Room）
https://www.jove.com/science-education/10292/the-ames-room

(7) 不注意视盲（Inattentional Blindness）
https://www.jove.com/science-education/10319/inattentional-blindness

(8) 空间线索（Spatial Cueing）
https://www.jove.com/science-education/10210/spatial-cueing

(9) 注意瞬脱（The Attentional Blink）
https://www.jove.com/science-education/10211/the-attentional-blink

(10) 拥挤（Crowding）
https://www.jove.com/science-education/10280/crowding

(11) 倒脸效应（The Inverted-face Effect）
https://www.jove.com/science-education/10209/the-inverted-face-effect

(12) 麦格克效应（The McGurk Effect）
https://www.jove.com/science-education/10295/the-mcgurk-effect

(13) 显而易见的差异（Just-noticeable Differences）
https://www.jove.com/science-education/10229/just-noticeable-differences

(14) 查找知觉阈限的楼梯过程（The Staircase Procedure for Finding a Perceptual Threshold）
https://www.jove.com/science-education/10231/the-staircase-procedure-for-finding-a-perceptual-threshold

(15) 对象替代遮掩（Object Substitution Masking）
https://www.jove.com/science-education/10279/object-substitution-masking

7. 社会心理学（Social Psychology）https://www.jove.com/science-education-library/30/social-psychology，**中文字幕和中文文稿**

(1) 在助人行为分析情况（Analyzing Situations in Helping Behavior）
https://www.jove.com/science-education/10305/analyzing-situations-in-helping-behavior

(2) 功能磁共振成像对解剖的道德判断（Using fMRI to Dissect Moral Judgment）
https://www.jove.com/science-education/10306/using-fmri-to-dissect-moral-judgment

(3) 社会心理学的视角（Perspectives on Social Psychology）
https://www.jove.com/science-education/10434/perspectives-on-social-psychology

(4) 快速判断准确度评价（Evaluating the Accuracy of Snap Judgments）
https://www.jove.com/science-education/10309/evaluating-the-accuracy-of-

snap-judgments

(5) 少数之一：符合团体规范（A Minority of One: Conformity to Group Norms）
https://www.jove.com/science-education/10331/a-minority-of-one-conformity-to-group-norms

(6) 错误归因的觉醒和认知失调（Misattribution of Arousal and Cognitive Dissonance）
https://www.jove.com/science-education/10333/misattribution-of-arousal-and-cognitive-dissonance

(7) 边际不诚实：添加 10 任务（Marginal Dishonesty: The Adding-to-10 Task）
https://www.jove.com/science-education/10307/marginal-dishonesty-the-adding-to-10-task

(8) 排斥：被互联网忽视的影响（Ostracism: Effects of Being Ignored Over the Internet）
https://www.jove.com/science-education/10336/ostracism-effects-of-being-ignored-over-the-internet

(9) 诱导情绪（Inducing Emotions）
https://www.jove.com/science-education/10308/inducing-emotions

(10) 说服力：影响态度改变的动机因素（Persuasion: Motivational Factors Influencing Attitude Change）
https://www.jove.com/science-education/10330/persuasion-motivational-factors-influencing-attitude-change

(11) 创建最小的组范式（Creating the Minimal Group Paradigm）
https://www.jove.com/science-education/10310/creating-the-minimal-group-paradigm

(12) 内隐联想测验（The Implicit Association Test）
https://www.jove.com/science-education/10368/the-implicit-association-test

(13) 联盟目标出现时发生无意识模仿（Nonconscious Mimicry Occurs when Affiliation Goals are Present）
https://www.jove.com/science-education/10335/nonconscious-mimicry-occurs-when-affiliation-goals-are-present

(14) 抽象思维或具体思维对自我控制的影响（Effects of Thinking Abstractly or Concretely on Self-control）
https://www.jove.com/science-education/10332/effects-of-thinking-abstractly-or-concretely-on-self-control

(15) 思考太多会影响决策（Thinking Too Much Impairs Decision-Making）
https://www.jove.com/science-education/10334/thinking-too-much-impairs-decision-making

八、工程学（Engineering），https://www.jove.com/science-education/eng 共 120 个视频。
视频全部有中文字幕。

1. 生物工程（Bioengineering），https://www.jove.com/science-education-library/34/bioengineering 中文字幕和中文文稿

(1) 生物材料的概述（Overview of Biomaterials）
https://www.jove.com/science-education/5797/overview-of-biomaterials

(2) 胶原水凝胶（Collagen Hydrogels）

https://www.jove.com/science-education/5786/collagen-hydrogels

(3) 丝绸生物材料的静电纺丝（Electrospinning of Silk Biomaterials）
https://www.jove.com/science-education/5798/electrospinning-of-silk-biomaterials

(4) BioMEM 设备概述（Overview of BioMEM Devices）
https://www.jove.com/science-education/5788/overview-of-biomem-devices

(5) 通过光刻微加工（Microfabrication via Photolithography）
https://www.jove.com/science-education/5789/microfabrication-via-photolithography

(6) 软光刻（Soft Lithography）
https://www.jove.com/science-education/5790/soft-lithography

(7) 生物过程工程概述（Overview of Bioprocess Engineering）
https://www.jove.com/science-education/5791/overview-of-bioprocess-engineering

(8) 合成生物学（Synthetic Biology）
https://www.jove.com/science-education/5792/synthetic-biology

(9) 分批和连续生物反应器（Batch and Continuous Bioreactors）
https://www.jove.com/science-education/5793/batch-and-continuous-bioreactors

(10) 生物传感器概述（Overview of Biosensing）
https://www.jove.com/science-education/5794/overview-of-biosensing

(11) 电化学生物传感器（Electrochemical Biosensing）
https://www.jove.com/science-education/5796/electrochemical-biosensing

(12) 光学生物传感器（Optical Biosensing）
https://www.jove.com/science-education/5795/optical-biosensing

(13) 组织工程概述（Overview of Tissue Engineering）
https://www.jove.com/science-education/5785/overview-of-tissue-engineering

(14) 组织培养（Histotypic Tissue Culture）
https://www.jove.com/science-education/5787/histotypic-tissue-culture

(15) 全器官组织培养（Whole Organ Tissue Culture）
https://www.jove.com/science-education/5799/whole-organ-tissue-culture

2. 电子工程（Electrical engineering）https://www.jove.com/science-education-library/35/electrical-engineering **中文字幕和中文文稿**

(1) 电气安全预防措施和基本设备（Electrical Safety Precautions and Basic Equipment）
https://www.jove.com/science-education/10114/electrical-safety-precautions-and-basic-equipment

(2) 磁性元件的特性（Characterization of Magnetic Components）
https://www.jove.com/science-education/10164/characterization-of-magnetic-components

(3) 电源杆板介绍（Introduction to the Power Pole Board）
https://www.jove.com/science-education/10254/introduction-to-the-power-pole-board

(4) dc/dc 升压转换器（DC/DC Boost Converter）
https://www.jove.com/science-education/10252/dcdc-boost-converter
(5) dc/dc 降压转换器（DC/DC Buck Converter）
https://www.jove.com/science-education/10253/dcdc-buck-converter
(6) 反激式转换器（Flyback Converter）
https://www.jove.com/science-education/10251/flyback-converter
(7) 单相变压器（Single Phase Rectifiers）
https://www.jove.com/science-education/10257/single-phase-rectifiers
(8) 单相整流器（Single Phase Rectifiers）
https://www.jove.com/science-education/10257/single-phase-rectifiers
(9) 晶闸管整流（Thyristor Rectifier）
https://www.jove.com/science-education/10255/thyristor-rectifier
(10) 单相逆变器（Single Phase Inverter）
https://www.jove.com/science-education/10250/single-phase-inverter
(11) 直流电机（DC Motors）
https://www.jove.com/science-education/10166/dc-motors
(12) 交流异步电动机特性（AC Induction Motor Characterization）
https://www.jove.com/science-education/10150/ac-induction-motor-characterization
(13) 变频调速交流感应电机（VFD-fed AC Induction Machine）
https://www.jove.com/science-education/10165/vfd-fed-ac-induction-machine
(14) 交流同步机同步（AC Synchronous Machine Synchronization）
https://www.jove.com/science-education/10167/ac-synchronous-machine-synchronization
(15) 交流同步电机特性（AC Synchronous Machine Characterization）
https://www.jove.com/science-education/10168/ac-synchronous-machine-characterization

3. 机械工程（Mechanical engineering）https://www.jove.com/science-education-library/36/mechanical-engineering 中文字幕和中文文稿
(1) 浮力和拖曳在浸没的身体（Buoyancy and Drag on Immersed Bodies）
https://www.jove.com/science-education/10392/buoyancy-and-drag-on-immersed-bodies
(2) 浮动容器的稳定性（Stability of Floating Vessels）
https://www.jove.com/science-education/10374/stability-of-floating-vessels
(3) 推进力和推力（Propulsion and Thrust）
https://www.jove.com/science-education/10398/propulsion-and-thrust
(4) 管道网络和压力损失（Piping Networks and Pressure Losses）
https://www.jove.com/science-education/10389/piping-networks-and-pressure-losses
(5) 淬火和沸腾（Quenching and Boiling）
https://www.jove.com/science-education/10404/quenching-and-boiling
(6) 液压跳跃（Hydraulic Jumps）
https://www.jove.com/science-education/10405/hydraulic-jumps
(7) 换热器分析（Heat Exchanger Analysis）

https://www.jove.com/science-education/10391/heat-exchanger-analysis

(8) 制冷概论（Introduction to Refrigeration）
https://www.jove.com/science-education/10387/introduction-to-refrigeration

(9) 热丝测速（Hot Wire Anemometry）
https://www.jove.com/science-education/10464/hot-wire-anemometry

(10) 测量紊流（Measuring Turbulent Flows）
https://www.jove.com/science-education/10450/measuring-turbulent-flows

(11) 通过钝体流的可视化（Visualization of Flow Past a Bluff Body）
https://www.jove.com/science-education/10435/visualization-of-flow-past-a-bluff-body

(12) 射流撞击斜面板（Jet Impinging on an Inclined Plate）
https://www.jove.com/science-education/10443/jet-impinging-on-an-inclined-plate

(13) 系统分析中的能量守恒方法（Conservation of Energy Approach to System Analysis）
https://www.jove.com/science-education/10449/conservation-of-energy-approach-to-system-analysis

(14) 质量守恒和流速测量（Mass Conservation and Flow Rate Measurements）
https://www.jove.com/science-education/10445/mass-conservation-and-flow-rate-measurements

(15) 用控制容积法测定扁板的撞击力（Determination of Impingement Forces on a Flat Plate with the Control Volume Method）
https://www.jove.com/science-education/10444/determination-impingement-forces-on-flat-plate-with-control-volume

4. 化学工程（Chemical engineering）https://www.jove.com/science-education-library/37/chemical-engineering，中文字幕和中文文稿

(1) 测试芬管热交换器的传热效率（Testing the Heat Transfer Efficiency of a Finned-tube Heat Exchanger）
https://www.jove.com/science-education/10437/testing-the-heat-transfer-efficiency-of-a-finned-tube-heat-exchanger

(2) 利用托盘干燥器研究对流和导电传热（Using a Tray Dryer to Investigate Convective and Conductive Heat Transfer）
https://www.jove.com/science-education/10438/using-tray-dryer-to-investigate-convective-conductive-heat

(3) 丙二醇溶液的粘度（Viscosity of Propylene Glycol Solutions）
https://www.jove.com/science-education/10439/viscosity-of-propylene-glycol-solutions

(4) 硅铝粉的法（Porosimetry of a Silica Alumina Powder）
https://www.jove.com/science-education/10383/porosimetry-of-a-silica-alumina-powder

(5) 用挤出法论证幂律模型（Demonstration of the Power Law Model Through Extrusion）
https://www.jove.com/science-education/10382/demonstration-of-the-power-law-model-through-extrusion

(6) 气体吸收器（Gas Absorber）
https://www.jove.com/science-education/10436/gas-absorber
(7) 汽液平衡（Vapor-liquid Equilibrium）
https://www.jove.com/science-education/10425/vapor-liquid-equilibrium
(8) 回流比对塔板蒸馏效率的影响（The Effect of Reflux Ratio on Tray Distillation Efficiency）
https://www.jove.com/science-education/10432/the-effect-of-reflux-ratio-on-tray-distillation-efficiency
(9) 液-液萃取效率（Efficiency of Liquid-liquid Extraction）
https://www.jove.com/science-education/10426/efficiency-of-liquid-liquid-extraction
(10) 液相反应器: 蔗糖反转（Liquid Phase Reactor: Sucrose Inversion）
https://www.jove.com/science-education/10408/liquid-phase-reactor-sucrose-inversion
(11) 水杨酸的化学改性结晶（Crystallization of Salicylic Acid via Chemical Modification）
https://www.jove.com/science-education/10407/crystallization-of-salicylic-acid-via-chemical-modification
(12) 填料床反应器中的单相和两相流（Single and Two-phase Flow in a Packed Bed Reactor）
https://www.jove.com/science-education/10431/single-and-two-phase-flow-in-a-packed-bed-reactor
(13) 烷的加入聚合动力学（Kinetics of Addition Polymerization to Polydimethylsiloxane）
https://www.jove.com/science-education/10369/kinetics-of-addition-polymerization-to-polydimethylsiloxane
(14) 催化反应器: 乙烯加氢（Catalytic Reactor: Hydrogenation of Ethylene）
https://www.jove.com/science-education/10427/catalytic-reactor-hydrogenation-of-ethylene
(15) 旋转和寒意（Evaluating the Heat Transfer of a Spin-and-Chill）
https://www.jove.com/science-education/10440/evaluating-the-heat-transfer-of-a-spin-and-chill

5. 结构工程（Structural Engineering）https://www.jove.com/science-education-library/38/structural-engineering 中文字幕和中文文稿
(1) 材料常数（Material Constants）
https://www.jove.com/science-education/10363/material-constants
(2) 钢的应力-应变特性（Stress-Strain Characteristics of Steels）
https://www.jove.com/science-education/10361/stress-strain-characteristics-of-steels
(3) 铝的应力-应变特性（Stress-Strain Characteristics of Aluminum）
https://www.jove.com/science-education/10362/stress-strain-characteristics-of-aluminum
(4) 冷弯热轧钢在不同温度条件下的冲击试验研究（Charpy Impact Test of Cold

Formed and Hot Rolled Steels Under Diverse Temperature Conditions）
https://www.jove.com/science-education/10385/charpy-impact-test-cold-formed-hot-rolled-steels-under-diverse

(5) 洛氏硬度试验及处理对钢的影响（Rockwell Hardness Test and the Effect of Treatment on Steel）
https://www.jove.com/science-education/10386/rockwell-hardness-test-and-the-effect-of-treatment-on-steel

(6) 钢柱屈曲（Buckling of Steel Columns）
https://www.jove.com/science-education/10414/buckling-of-steel-columns

(7) 结构动力学（Dynamics of Structures）
https://www.jove.com/science-education/10415/dynamics-of-structures

(8) 金属疲劳（Fatigue of Metals）
https://www.jove.com/science-education/10416/fatigue-of-metals

(9) 聚合物拉伸试验（Tension Tests of Polymers）
https://www.jove.com/science-education/10418/tension-tests-of-polymers

(10) 纤维增强高分子材料的拉伸试验（Tension Test of Fiber-Reinforced Polymeric Materials）
https://www.jove.com/science-education/10417/tension-test-of-fiber-reinforced-polymeric-materials

(11) 混凝土和沥青混合料的骨料（Aggregates for Concrete and Asphaltic Mixes）
https://www.jove.com/science-education/10419/aggregates-for-concrete-and-asphaltic-mixes

(12) 新鲜混凝土试验（Tests on Fresh Concrete）
https://www.jove.com/science-education/10420/tests-on-fresh-concrete

(13) 硬化混凝土的压缩试验（Compression Tests on Hardened Concrete）
https://www.jove.com/science-education/10421/compression-tests-on-hardened-concrete

(14) 硬化混凝土的拉伸试验（Tests of Hardened Concrete in Tension）
https://www.jove.com/science-education/10423/tests-of-hardened-concrete-in-tension

(15) 木材试验（Tests on Wood）
https://www.jove.com/science-education/10422/tests-on-wood

6. 生物工程医学(Biomedical Engineering) https://www.jove.com/science-education-library/39/biomedical-engineering 中文字幕和中文文稿

(1) 使用光学和共聚焦显微镜成像生物样本（Imaging Biological Samples with Optical and Confocal Microscopy）
https://www.jove.com/science-education/10476/imaging-biological-samples-with-optical-and-confocal-microscopy

(2) 生物样品的 SEM 成像（SEM Imaging of Biological Samples）
https://www.jove.com/science-education/10492/sem-imaging-of-biological-samples

(3) 纳米药物载体的生物分布：SEM 的应用（Biodistribution of Nano-drug Carriers: Applications of SEM）
https://www.jove.com/science-education/10472/biodistribution-of-nano-

drug-carriers-applications-of-sem

(4) 腹主动脉的高频超声成像（High-frequency Ultrasound Imaging of the Abdominal Aorta）
https://www.jove.com/science-education/10397/high-frequency-ultrasound-imaging-of-the-abdominal-aorta

(5) 腹部主动脉瘤的定量应变图谱（Quantitative Strain Mapping of an Abdominal Aortic Aneurysm）
https://www.jove.com/science-education/10480/quantitative-strain-mapping-of-an-abdominal-aortic-aneurysm

(6) 红外主塔中图像血液和脂质的光声断层扫描（Photoacoustic Tomography to Image Blood and Lipids in the Infrarenal Aorta）
https://www.jove.com/science-education/10395/photoacoustic-tomography-to-image-blood-lipids-infrarenal

(7) 心脏磁共振成像（Cardiac Magnetic Resonance Imaging）
https://www.jove.com/science-education/10393/cardiac-magnetic-resonance-imaging

(8) 脑动脉瘤血流的计算流体动力学模拟（Computational Fluid Dynamics Simulations of Blood Flow in a Cerebral Aneurysm）
https://www.jove.com/science-education/10479/computational-fluid-dynamics-simulations-blood-flow-cerebral

(9) 腹主动脉瘤的近红外荧光成像（Near-infrared Fluorescence Imaging of Abdominal Aortic Aneurysms）
https://www.jove.com/science-education/10394/near-infrared-fluorescence-imaging-of-abdominal-aortic-aneurysms

(10) 非侵入性血压测量技术（Noninvasive Blood Pressure Measurement Techniques）
https://www.jove.com/science-education/10478/noninvasive-blood-pressure-measurement-techniques

(11) 心电图（ECG）信号的采集与分析（Acquisition and Analysis of an ECG (electrocardiography) Signal）
https://www.jove.com/science-education/10473/acquisition-and-analysis-of-an-ecg-electrocardiography-signal

(12) 可吸收生物材料的拉伸强度（Tensile Strength of Resorbable Biomaterials）
https://www.jove.com/science-education/10471/tensile-strength-of-resorbable-biomaterials

(13) 小鼠脊髓的微 CT 成像（Micro-CT Imaging of a Mouse Spinal Cord）
https://www.jove.com/science-education/10475/micro-ct-imaging-of-a-mouse-spinal-cord

(14) 大鼠非侵入性 ACL 损伤后膝关节退化的可视化（Visualization of Knee Joint Degeneration after Non-invasive ACL Injury in Rats）
https://www.jove.com/science-education/10477/visualization-knee-joint-degeneration-after-non-invasive-acl-injury

(15) SPECT 和 CT 成像联合用于心脏功能可视化（Combined SPECT and CT Imaging to Visualize Cardiac Functionality）

https://www.jove.com/science-education/10396/combined-spect-and-ct-imaging-to-visualize-cardiac-functionality

7. 材料工程学（Materials Engineering）https://www.jove.com/science-education-library/40/materials-engineering 中文字幕和中文文稿
   (1) 光学材料学第 1 部分：样品制备（Optical Materialography Part 1: Sample Preparation）
   https://www.jove.com/science-education/10406/optical-materialography-part-1-sample-preparation
   (2) 光学材料学第 2 部分：图像分析（Optical Materialography Part 2: Image Analysis）
   https://www.jove.com/science-education/10433/optical-materialography-part-2-image-analysis
   (3) X 射线光电子光谱（X-ray Photoelectron Spectroscopy）
   https://www.jove.com/science-education/10474/x-ray-photoelectron-spectroscopy
   (4) X 射线衍射（X-ray Diffraction）
   https://www.jove.com/science-education/10446/x-ray-diffraction
   (5) 聚焦离子光束（Focused Ion Beams）
   https://www.jove.com/science-education/10482/focused-ion-beams
   (6) 定向凝固和相位稳定（Directional Solidification and Phase Stabilization）
   https://www.jove.com/science-education/10485/directional-solidification-and-phase-stabilization
   (7) 差分扫描热量测定（Differential Scanning Calorimetry）
   https://www.jove.com/science-education/10487/differential-scanning-calorimetry
   (8) 热衍率与激光闪光方法（Thermal Diffusivity and the Laser Flash Method）
   https://www.jove.com/science-education/10488/thermal-diffusivity-and-the-laser-flash-method
   (9) 薄膜电镀（Electroplating of Thin Films）
   https://www.jove.com/science-education/10489/electroplating-of-thin-films
   (10) 通过测热分析的热膨胀分析（Analysis of Thermal Expansion via Dilatometry）
   https://www.jove.com/science-education/10490/analysis-of-thermal-expansion-via-dilatometry
   (11) 电化学阻抗光谱（Electrochemical Impedance Spectroscopy）
   https://www.jove.com/science-education/10491/electrochemical-impedance-spectroscopy
   (12) 陶瓷基质复合材料及其弯曲特性（Ceramic-matrix Composite Materials and Their Bending Properties）
   https://www.jove.com/science-education/10481/ceramic-matrix-composite-materials-and-their-bending-properties
   (13) 纳米晶体合金和纳米颗粒尺寸稳定性（Nanocrystalline Alloys and Nano-grain Size Stability）
   https://www.jove.com/science-education/10484/nanocrystalline-alloys-and-nano-grain-size-stability

（14） 水凝胶合成（Hydrogel Synthesis）
https://www.jove.com/science-education/10486/hydrogel-synthesis

8. 航空工程（Aeronautical Engineering）https://www.jove.com/science-education-library/82/aeronautical-engineering 中文字幕和中文文稿

（1） 模型飞机的空气动力学性能：DC-6B（Aerodynamic Performance of a Model Aircraft: The DC-6B）
https://www.jove.com/science-education/10456/aerodynamic-performance-of-a-model-aircraft-the-dc-6b

（2） 推进器特性：音高、直径和叶片数在性能上的变化（Propeller Characterization: Variations in Pitch, Diameter, and Blade Number on Performance）
https://www.jove.com/science-education/10460/propeller-characterization-variations-pitch-diameter-blade-number-on

（3） 机翼行为：克拉克 Y-14 翼上的压力分布（Airfoil Behavior: Pressure Distribution over a Clark Y-14 Wing）
https://www.jove.com/science-education/10453/airfoil-behavior-pressure-distribution-over-a-clark-y-14-wing

（4） Clark Y-14 翼性能：高提升设备的部署（片和板条）（Clark Y-14 Wing Performance: Deployment of High-lift Devices (Flaps and Slats)）
https://www.jove.com/science-education/10454/clark-y-14-wing-performance-deployment-high-lift-devices-flaps

（5） 湍流球法：评估风洞流量质量（Turbulence Sphere Method: Evaluating Wind Tunnel Flow Quality）
https://www.jove.com/science-education/10457/turbulence-sphere-method-evaluating-wind-tunnel-flow-quality

（6） 交叉圆柱流：测量压力分布和估计阻力系数（Cross Cylindrical Flow: Measuring Pressure Distribution and Estimating Drag Coefficients）
https://www.jove.com/science-education/10451/cross-cylindrical-flow-measuring-pressure-distribution-estimating

（7） 喷嘴分析：沿聚合和融合分流喷嘴的马赫数和压力的变化（Nozzle Analysis: Variations in Mach Number and Pressure Along a Converging and a Converging-diverging Nozzle）
https://www.jove.com/science-education/10466/nozzle-analysis-variations-mach-number-pressure-along-converging

（8） 施利伦成像：一种可视化超音速流特性的技术（Schlieren Imaging: A Technique to Visualize Supersonic Flow Features）
https://www.jove.com/science-education/10458/schlieren-imaging-a-technique-to-visualize-supersonic-flow-features

（9） 水隧道中的流量可视化：在三角洲翼上观察前沿涡流（Flow Visualization in a Water Tunnel: Observing the Leading-edge Vortex Over a Delta Wing）
https://www.jove.com/science-education/10459/flow-visualization-water-tunnel-observing-leading-edge-vortex-over

（10） 表面染料流可视化：观察超音速流中条纹模式的定性方法（Surface Dye Flow Visualization: A Qualitative Method to Observe Streakline Patterns in Supersonic Flow）

https://www.jove.com/science-education/10468/surface-dye-flow-visualization-qualitative-method-to-observe

（11） 皮托静态管：测量气流速度的设备（Pitot-static Tube: A Device to Measure Air Flow Speed)
https://www.jove.com/science-education/10452/pitot-static-tube-a-device-to-measure-air-flow-speed

（12） 恒温测量：研究湍流边界层流的工具（Constant Temperature Anemometry: A Tool to Study Turbulent Boundary Layer Flow)
https://www.jove.com/science-education/10455/constant-temperature-anemometry-tool-to-study-turbulent-boundary

（13） 压力传感器：使用皮托静态管进行校准（Pressure Transducer: Calibration Using a Pitot-static Tube)
https://www.jove.com/science-education/10467/pressure-transducer-calibration-using-a-pitot-static-tube

（14） 实时飞行控制：嵌入式传感器校准和数据采集（Real-time Flight Control: Embedded Sensor Calibration and Data Acquisition)
https://www.jove.com/science-education/10470/real-time-flight-control-embedded-sensor-calibration-data

（15） 多直升机空气动力学：六轴飞行器上的特征推力（Combined SPECT and CT Imaging to Visualize Cardiac Functionality)
https://www.jove.com/science-education/10469/multicopter-aerodynamics-characterizing-thrust-on-a-hexacopter

第二部分：JoVE 核心科学教育（JoVE Core）共 441 个视频
https://www.jove.com/science-education/jovecore

一、生物核心课程 （Core Biology)，https://www.jove.com/science-education/jovecore 共 375 个视频，其中 340 个有全中文版本。

1. 基本原理（Fundamentals)

（1） 第 1 章 科学探索（Scientific Inquiry）全中文版本视频
https://www.jove.com/science-education-library/43/scientific-inquiry

1.1 什么是生物学（What is Biology)
https://www.jove.com/science-education/10647/?language=Chinese

1.2 生物系统的组织层次（Levels of Organization)
https://www.jove.com/science-education/10648/?language=Chinese

1.3 科学方法（The Scientific Method)
https://www.jove.com/science-education/10649/?language=Chinese

1.4 归纳推理（Inductive Reasoning)
https://www.jove.com/science-education/10651/?language=Chinese

1.5 演绎推理（Deductive Reasoning)
https://www.jove.com/science-education/10651/?language=Chinese

1.6 相关性与因果关系（Correlation and Causation)
https://www.jove.com/science-education/10652/?language=Chinese

1.7 分类学（Taxonomy)
https://www.jove.com/science-education/10653/?language=Chinese

1.8 系统发育学（Phylogeny）
https://www.jove.com/science-education/10966/?language=Chinese

（2） 第 2 章 生命化学（Chemistry of Life）全中文版本
https://www.jove.com/science-education-library/44/chemistry-of-life

2.1 元素周期表和有机元素（The Periodic Table and Organismal Elements）
https://www.jove.com/science-education/10655/the-periodic-table-and-organismal-elements

2.2 原子结构（Atomic Structure）
https://www.jove.com/science-education/10966/?language=Chinese

2.3 电子行为（Electron Behavior）
https://www.jove.com/science-education/10657/electron-behavior

2.4 电子轨道模型（Electron Orbital Model）
https://www.jove.com/science-education/10658/electron-orbital-model

2.5 分子和化合物（Molecules and Compounds）
https://www.jove.com/science-education/10659/?language=Chinese

2.6 分子形状的表现（Molecular Shapes）
https://www.jove.com/science-education/10660/?language=Chinese

2.7 碳骨架（Carbon Skeletons）
https://www.jove.com/science-education/10661/?language=Chinese

2.8 化学反应（Chemical Reactions）
https://www.jove.com/science-education/10662/?language=Chinese

2.9 同位素（Isotopes）
https://www.jove.com/science-education/10663/?language=Chinese

2.10共价键（Covalent Bonds）
https://www.jove.com/science-education/10664/?language=Chinese

2.11离子键（Ionic Bonds）
https://www.jove.com/science-education/10665/?language=Chinese

2.12氢键（Hydrogen Bonds）
https://www.jove.com/science-education/10666/?language=Chinese

2.13范德华力（Van der Waals Interactions）
https://www.jove.com/science-education/10667/?language=Chinese

2.14水的状态（States of Water）
https://www.jove.com/science-education/10668/?language=Chinese

2.15酸碱性（pH）
https://www.jove.com/science-education/10669/?language=Chinese

2.16溶剂（Solvents）
https://www.jove.com/science-education/10670/?language=Chinese

2.17氧化还原反应（Redox Reactions）
https://www.jove.com/science-education/10671/?language=Chinese

2.18黏附（Adhesion）
https://www.jove.com/science-education/10672/?language=Chinese

2.19内聚力（Cohesion）
https://www.jove.com/science-education/10673/?language=Chinese

2.20比热容（Specific Heat）

https://www.jove.com/science-education/10674/?language=Chinese

2.21汽化（Vaporization）

https://www.jove.com/science-education/10675/?language=Chinese

（3） 第 3 章 高分子（Macromolecules）全中文版本

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3.1 什么是蛋白质（What are Proteins）

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3.2 蛋白质组织结构（Protein Organization）

https://www.jove.com/science-education/10678/?language=Chinese

3.3 蛋白质折叠（Protein Folding）

https://www.jove.com/science-education/10679/?language=Chinese

3.4 什么是碳水化合物（What are Carbohydrates）

https://www.jove.com/science-education/10680/?language=Chinese

3.5 脱水合成（Dehydration Synthesis）

https://www.jove.com/science-education/10681/?language=Chinese

3.6 水解（Hydrolysis）

https://www.jove.com/science-education/10682/?language=Chinese

3.7 什么是脂类（What are Lipids）

https://www.jove.com/science-education/10683/?language=Chinese

3.8 什么是核酸（What are Nucleic Acids）

https://www.jove.com/science-education/10684/?language=Chinese

3.9 磷酸二酯键（Phosphodiester Linkages）

https://www.jove.com/science-education/10685/?language=Chinese

2. 细胞过程（Cellular Processes），共 38 个视频

（4） 第 4 章 细胞结构和功能（Cell Structure and Function）全中文版本

https://www.jove.com/science-education-library/47/cell-structure-and-function

4.1 什么是细胞（What are Cells）

https://www.jove.com/science-education/10687/?language=Chinese

4.2 细胞的大小（Cell Size）

https://www.jove.com/science-education/10688/?language=Chinese

4.3 真核细胞区室化（Eukaryotic Compartmentalization）

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4.4 原核生物（Prokaryotic Cells）

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4.5 细胞质（Cytoplasm）

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4.6 细胞核（The Nucleus）

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4.7 内质网（Endoplasmic Reticulum）

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4.8 核糖体（Ribosomes）

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4.9 高尔基体（Golgi Apparatus）

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4.10微管（Microtubules）

https://www.jove.com/science-education/10693/?language=Chinese

4.11线粒体（Mitochondria）

https://www.jove.com/science-education/10694/?language=Chinese

4.12缝隙连接（Gap Junctions）

https://www.jove.com/science-education/10986/?language=Chinese

4.13细胞外基质（The Extracellular Matrix）

https://www.jove.com/science-education/10695/?language=Chinese

4.14组织（Tissues）

https://www.jove.com/science-education/10696/?language=Chinese

4.15植物细胞壁（Plant Cell Wall）

https://www.jove.com/science-education/11084/plant-cell-wall

4.16疟原虫（Plasmodesmata）

https://www.jove.com/science-education/11085/plasmodesmata

（5） 第 5 章 细胞膜及细胞运输（Membranes and Cellular Transport）全中文版本 https://www.jove.com/science-education-library/44/chemistry-of-life

5.1 什么是膜（What are Membranes）

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5.2 膜流动性（Membrane Fluidity）

https://www.jove.com/science-education/10972/?language=Chinese/

5.3 什么是电化学梯度（What is an Electrochemical Gradient）

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5.4 扩散（Diffusion）

https://www.jove.com/science-education/10700/?language=Chinese

5.5 渗透（Osmosis）

https://www.jove.com/science-education/10701/?language=Chinese

5.6 动物的张力（Tonicity in Animals）

https://www.jove.com/science-education/10702/?language=Chinese

5.7 植物的张力（Tonicity in Plants）

https://www.jove.com/science-education/10703/?language=Chinese

5.8 蛋白质组合（Protein Associations）

https://www.jove.com/science-education/10704/?language=Chinese

5.9 促进运输（Facilitated Transport）

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5.10初级主动运输（Primary Active Transport）

https://www.jove.com/science-education/10706/?language=Chinese

5.11二级主动运输（Secondary Active Transport）

https://www.jove.com/science-education/10707/?language=Chinese

5.12受体介导的内吞作用（Receptor-mediated Endocytosis）

https://www.jove.com/science-education/10708/?language=Chinese

5.13胞饮作用（Pinocytosis）

https://www.jove.com/science-education/10709/?language=Chinese

5.14吞噬作用（Phagocytosis）

https://www.jove.com/science-education/10710/?language=Chinese

5.15胞吐作用（Exocytosis）

https://www.jove.com/science-education/10711/?language=Chinese

（6） 第 6 章 细胞信号转导（Cell Signaling）全中文版本

https://www.jove.com/science-education-library/49/cell-signaling

6.1 什么是细胞信号（What is Cell Signaling）

6.2 细菌信号（Bacterial Signaling）

https://www.jove.com/science-education/10713/?language=Chinese

6.3 酵母信号（Yeast Signaling）

https://www.jove.com/science-education/10714/?language=Chinese

6.4 接触依赖信号（Yeast Signaling）

https://www.jove.com/science-education/10715/?language=Chinese

6.5 自分泌信号（Autocrine Signaling）

https://www.jove.com/science-education/10973/?language=Chinese

6.6 旁分泌信号（Paracrine Signaling）

https://www.jove.com/science-education/10716/?language=Chinese

6.7 突触信号（Synaptic Signaling）

https://www.jove.com/science-education/10717/?language=Chinese

6.8 G 蛋白偶联受体（G-protein Coupled Receptors）

https://www.jove.com/science-education/10718/g?language=Chinese

6.9 内部受体（Internal Receptors）

https://www.jove.com/science-education/11011/?language=Chinese

6.10 内分泌信号（Endocrine Signaling）

https://www.jove.com/science-education/10719/?language=Chinese

6.11 什么是第二信使（What are Second Messengers）

https://www.jove.com/science-education/10720/?language=Chinese

6.12 细胞内信号级联（Intracellular Signaling Cascades）

https://www.jove.com/science-education/10721/?language=Chinese

6.13 离子通道（Ion Channels）

https://www.jove.com/science-education/10722/?language=Chinese

6.14 酶联受体（Enzyme-linked Receptors）

https://www.jove.com/science-education/10723/?language=Chinese

（7） 第 7 章 代谢（Metabolism）全中文版本

https://www.jove.com/science-education-library/50/metabolism?language=Chinese

7.1 什么是代谢（Metabolism）

https://www.jove.com/science-education/10725/?language=Chinese

7.2 热力学第一定律（First Law of Thermodynamics）

https://www.jove.com/science-education/10726/?language=Chinese

7.3 热力学第二定律（Second Law of Thermodynamics）

https://www.jove.com/science-education/10727/?language=Chinese

7.4 动能（Kinetic Energy）

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7.5 势能（Potential Energy）
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7.6 自由能（Free Energy）
https://www.jove.com/science-education/10730/?language=Chinese
7.7 活化能（Activation Energy）
https://www.jove.com/science-education/10731/?language=Chinese
7.8 ATP 水解（Hydrolysis of ATP）
https://www.jove.com/science-education/10732/atp?language=Chinese
7.9 磷酸化（Phosphorylation）
https://www.jove.com/science-education/10733/?language=Chinese
7.10 诱导契合模型（Induced-fit Model）
https://www.jove.com/science-education/10734/?language=Chinese
7.11 酶促反应动力学（Enzyme Kinetics）
https://www.jove.com/science-education/11005/?language=Chinese
7.12 酶活抑制（Enzyme Inhibition）
https://www.jove.com/science-education/11004/?language=Chinese
7.13 反馈抑制（Feedback Inhibition）
https://www.jove.com/science-education/10735/?language=Chinese
7.14 变构规则（Allosteric Regulation）
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7.15 辅助因子和辅酶（Cofactors and Coenzymes）
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（8） 第 8 章 细胞呼吸（Cellular Respiration）全中文版本
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8.1 什么是细胞呼吸（What is Cellular Respiration）
https://www.jove.com/science-education/10976/?language=Chinese
8.2 什么是糖酵解（What is Glycolysis）
https://www.jove.com/science-education/10737/?language=Chinese
8.3 糖酵解需要能量的阶段（Energy-requiring Steps of Glycolysis）
https://www.jove.com/science-education/10738/?language=Chinese
8.4 糖酵解释放能量的阶段（Energy-releasing Steps of Glycolysis）
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8.5 糖酵解的结果（Outcomes of Glycolysis）
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8.6 丙酮酸氧化（Pyruvate Oxidation）
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8.7 柠檬酸循环（The Citric Acid Cycle）
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8.8 柠檬酸循环的产品（Products of the Citric Acid Cycle）
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8.9 电子传输链（Electron Transport Chains）
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8.10 化学渗透（Chemiosmosis）

https://www.jove.com/science-education/10743/?language=Chinese

8.11 电子载体（Electron Carriers）

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8.12 ATP 产量（ATP Yield）

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8.13 发酵（Fermentation）

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8.14 饮食关系（Dietary Connections）

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（9） 第 9 章 光合作用（Photosynthesis）全中文版 https://www.jove.com/science-education-library/52/photosynthesis

9.1 什么是光合作用（What is Photosynthesis）

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9.2 光能（Light as Energy）

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9.3 叶绿体的结构（Anatomy of Chloroplasts）

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9.4 光系统 II（Photosystem II）

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9.5 光系统 I（Photosystem I）

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9.6 卡尔文循环（The Calvin Cycle）

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9.7 C4 通路和 CAM（C4 Pathway and CAM）

https://www.jove.com/science-education/10754/c4cam?language=Chinese

（10） 第 10 章 细胞周期和细胞分裂（Cell Cycle and Division）全中文版 https://www.jove.com/science-education-library/53/cell-cycle-and-division

10.1什么是细胞周期（What is the Cell Cycle）

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10.2原核生物的基因组 DNA（Genomic DNA in Prokaryotes）

https://www.jove.com/science-education/10758/dna?language=Chinese

10.3二元裂变（Binary Fission）

https://www.jove.com/science-education/10759/?language=Chinese

10.4真核生物基因组 DNA（Genomic DNA in Eukaryotes）

https://www.jove.com/science-education/10760/dna?language=Chinese

10.5间期（Interphase）

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10.6有丝分裂和胞质分裂（Mitosis and Cytokinesis）

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10.7正调节分子（Positive Regulator Molecules）

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10.8负调节分子（Negative Regulator Molecules）

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10.9癌症（Cancer）
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3. 遗传学（Genetics）。

（11） 第 11 章 减数分裂（Meiosis）全中文版
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11.1什么是减数分裂（What is Meiosis）
https://www.jove.com/science-education/10766/?language=Chinese

11.2减数分裂 I （Meiosis I）
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11.3减数分裂 II （Meiosis II）
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11.4染色体互换（Crossing Over）
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11.5不分离（Nondisjunction）
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（12） 第 12 章 经典遗传学与现代遗传学（Membranes and Cellular Transport）
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12.1遗传术语（Genetic Lingo）
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12.2Punnett 方块（Punnett Squares）
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12.3单杂交组合（Monohybrid Crosses）
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12.4双杂交组合（Dihybrid Crosses）
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12.5隔离法（Law of Segregation）
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12.6独立重组原则（Law of Independent Assortment）
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12.7测试十字架（Test Cross）
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12.8系谱分析（Pedigree Analysis）
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12.9概率定律（Probability Laws）
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12.10 多等位基因性状（Multiple Allele Traits）
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12.11 染色体遗传学理论（Chromosomal Theory of Inheritance）
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12.12 非核遗传（Non-nuclear Inheritance）
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12.13 X 连锁特征（X-linked Traits）

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12.14 伴性遗传疾病（Sex-linked Disorders）

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12.15 X 染色体失活（X-Inactivation）

https://www.jove.com/science-education/11002/x?language=Chinese

12.16 异位显性（Epistasis）

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12.17 多基因性状（Polygenic Traits）

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12.18 基因多效性（Pleiotropy）

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12.19 先天与后天（Nature and Nurture）

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（13） 第 13 章 DNA 结构与功能（DNA Structure and Function）

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13.1DNA 螺旋（The DNA Helix）

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13.2DNA 包装（DNA Packaging）

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13.3基因的结构（Organization of Genes）

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13.5原核生物的复制（Replication in Prokaryotes）

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13.6真核生物的复制（Replication in Eukaryotes）

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13.7校对（Proofreading）

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13.8 错配（Mismatch Repair）

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13.9核苷酸切除修复(Nucleotide Excision Repair)

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13.10 突变（Mutations）

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13.11 转录（Transcription）

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13.12 翻译（Translation）

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13.13 细菌转化（Bacterial Transformation）

https://www.jove.com/science-education/10982/?language=Chinese

（14） 第 14 章 基因表达（Gene Expression）

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14.1 什么是基因表达（What is Gene Expression）
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14.2 中心法则（The Central Dogma）
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14.3 转录因子（Transcription Factors）
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14.4 RNA 结构（RNA Structure）
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14.5 RNA 稳定性（RNA Stability）
https://www.jove.com/science-education/11009/rna?language=Chinese
14.6 前 mRNA 加工（pre-mRNA processing）
https://www.jove.com/science-education/11003/mrna?language=Chinese
14.7 核糖核酸（RNA）的种类（Types of RNA）
https://www.jove.com/science-education/10800/?language=Chinese
14.8 微核糖核酸（MicroRNAs）
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14.9 RNA 拼接（RNA Splicing）
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14.10 表观遗传调控（Epigenetic Regulation）
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14.11 RNA 干扰（RNA Interference）
https://www.jove.com/science-education/10804/rna-?language=Chinese
14.12 操纵子（Operons）
https://www.jove.com/science-education/10984/?language=Chinese

（15）第 15 章 生物技术（Biotechnology）全中文版视频
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15.1 什么是基因工程（What is Genetic Engineering）
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15.2 抗生素筛选（Antibiotic Selection）
https://www.jove.com/science-education/10807/antibiotic-selection?language=Chinese
15.3 重组 DNA（Recombinant DNA）
https://www.jove.com/science-education/10808/dna?language=Chinese
15.4 转基因生物（Transgenic Organisms）
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15.5 成体干细胞（Adult Stem Cells）
https://www.jove.com/science-education/10810/?language=Chinese
15.6 胚胎干细胞（Embryonic Stem Cells）
https://www.jove.com/science-education/10811/?language=Chinese
15.7 诱导多能干细胞（IPS）（Induced Pluripotent Stem Cells）
https://www.jove.com/science-education/10812/?language=Chinese
15.8 体外致突变性（In-vitro Mutagenesis）

https://www.jove.com/science-education/10813/?language=Chinese

15.9 DNA 分离（DNA Isolation）

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15.10 基因治疗（Gene Therapy）

https://www.jove.com/science-education/10815/?language=Chinese

15.11 生殖性克隆（Reproductive Cloning）

https://www.jove.com/science-education/10816/?language=Chinese

15.12 基因编辑技术（CRISPR）

https://www.jove.com/science-education/10817/?language=Chinese

15.13 互补 DNA (Complementary DNA)

https://www.jove.com/science-education/10818/dna?language=Chinese

15.14 PCR (PCR)

https://www.jove.com/science-education/10819/pcr?language=Chinese

15.15 基因组学（Genomics）

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（16） 第 16 章 病毒（Viruses）全中文版视频

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16.1 什么是病毒（What are Viruses）

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16.2 病毒结构（Viral Structure）

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16.3 噬菌体的溶解周期（Lytic Cycle of Bacteriophages）

https://www.jove.com/science-education/10823/?language=Chinese

16.4 噬菌体的溶原循环（Lysogenic Cycle of Bacteriophages）

https://www.jove.com/science-education/10824/?language=Chinese

16.5 逆转录病毒生命周期（Retrovirus Life Cycles）

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16.6 病毒重组（Viral Recombination）

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16.7 病毒突变（Viral Mutations）

https://www.jove.com/science-education/10827/?language=Chinese

4. 人体生物学（Human Biology）

（17） 第 17 章 营养与消化（Nutrition and Digestion）全中文版视频

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17.1 什么是单胃消化（What is Monogastric Digestion）

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17.2 肠道解剖（Anatomy of the Intestines）

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17.3 附属器官（Accessory Organs）

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17.4 脂质消化（Lipid Digestion）

https://www.jove.com/science-education/10832/?language=Chinese

17.5 蛋白质消化（Protein Digestion）

https://www.jove.com/science-education/10833/?language=Chinese

17.6 碳水化合物消化（Carbohydrate Digestion）

https://www.jove.com/science-education/10834/?language=Chinese

17.7 神经调节（Neural Regulation）

https://www.jove.com/science-education/10835/?language=Chinese

17.8 激素调节（Hormonal Regulation）

https://www.jove.com/science-education/10836/?language=Chinese

（18）第 18 章 神经系统（Nervous System）https://www.jove.com/science-education-library/63/nervous-system?language=Chinese 全中文版视频

18.1 什么是神经系统（What is a Nervous System）

https://www.jove.com/science-education/10838/?language=Chinese

18.2 副交感神经系统（The Parasympathetic Nervous System）

https://www.jove.com/science-education/10839/?language=Chinese

18.3 交感神经系统（The Sympathetic Nervous System）

https://www.jove.com/science-education/10840/?language=Chinese

18.4 血脑屏障（The Blood-brain Barrier）

https://www.jove.com/science-education/10841/?language=Chinese

18.5 神经元结构（Neuron Structure）

https://www.jove.com/science-education/10842/?language=Chinese

18.6 突触（The Synapse）

https://www.jove.com/science-education/10997/?language=Chinese

18.7 胶质细胞（Glial Cells）

https://www.jove.com/science-education/10843/?language=Chinese

18.8 静息膜电位（The Resting Membrane Potential）

https://www.jove.com/science-education/10845/?language=Chinese

18.9 动作电位（Action Potentials）

https://www.jove.com/science-education/10844/?language=Chinese

18.10 增强效应（Long-term Potentiation）

https://www.jove.com/science-education/10846/?language=Chinese

18.11 长期抑郁（Long-term Depression）

https://www.jove.com/science-education/10847/?language=Chinese

（19）第 19 章 感觉系统（DNA Structure and Function）全中文版视频

https://www.jove.com/science-education-library/64/sensory-systems

19.1 什么是感官系统（What is a Sensory System）

https://www.jove.com/science-education/10849/?language=Chinese

19.2 舌头和味蕾（The Tongue and Taste Buds）

https://www.jove.com/science-education/10850/?language=Chinese

19.3味觉（Gustation）

https://www.jove.com/science-education/10851/?language=Chinese

19.4嗅觉（Olfaction）

https://www.jove.com/science-education/10852/?language=Chinese

19.5听力（Hearing）

https://www.jove.com/science-education/10853/?language=Chinese

19.6毛细胞（Hair Cells）

https://www.jove.com/science-education/10854/?language=Chinese

19.7耳蜗（The Cochlea）

https://www.jove.com/science-education/10855/?language=Chinese

19.8 前庭系统（The Vestibular System）

https://www.jove.com/science-education/10856/?language=Chinese

19.9视网膜(The Retina)

https://www.jove.com/science-education/10857/?language=Chinese

19.10 视觉（Vision)

https://www.jove.com/science-education/10858/?language=Chinese

19.11 体感(Somatosensation)

https://www.jove.com/science-education/10859/?language=Chinese

19.12 温度感知（Thermosensation)

https://www.jove.com/science-education/10860/?language=Chinese

（20） 第 20 章 运动系统（Musculoskeletal System）全中文版视频

https://www.jove.com/science-education-library/65/musculoskeletal-system

20.1 什么是骨骼系统（What is the Skeletal System）

https://www.jove.com/science-education/10863/?language=Chinese

20.2 骨结构（Bone Structure）

https://www.jove.com/science-education/10864/?language=Chinese

20.3 关节（Joints）

https://www.jove.com/science-education/10865/?language=Chinese

20.4 骨重塑（Bone Remodeling）

https://www.jove.com/science-education/10866/?language=Chinese

20.5 肌肉骨骼解剖（Skeletal Muscle Anatomy）

https://www.jove.com/science-education/10867/?language=Chinese

20.6 骨骼肌纤维分类（Classification of Skeletal Muscle Fibers）

https://www.jove.com/science-education/10868/?language=Chinese

20.7 肌肉收缩（Muscle Contraction）

https://www.jove.com/science-education/10869/?language=Chinese

20.8 跨桥循环（Cross-bridge Cycle）

https://www.jove.com/science-education/10870/?language=Chinese

20.9 运动单元（Motor Units)

https://www.jove.com/science-education/10871/?language=Chinese

20.10 脊髓（The Spinal Cord)

https://www.jove.com/science-education/10872/?language=Chinese

20.11 痛觉（Nociception)

https://www.jove.com/science-education/10873/?language=Chinese

（21） 第 21 章 内分泌系统（Endocrine System）全中文版视频

https://www.jove.com/science-education-library/66/endocrine-system

21.1 什么是内分泌系统（What is the Endocrine System）

https://www.jove.com/science-education/10875/?language=Chinese

21.2 激素的类型（Types of Hormones）

https://www.jove.com/science-education/10988/?language=Chinese

21.3 细胞内激素受体（Intracellular Hormone Receptors）

https://www.jove.com/science-education/10876/?language=Chinese

21.4 细胞表面信号（Cell-surface Signaling）

https://www.jove.com/science-education/10877/?language=Chinese

21.5 细胞表面信号（Feedback Loops）

https://www.jove.com/science-education/10878/?language=Chinese

21.6 下丘脑 - 垂体轴（Hypothalamic-Pituitary Axis）

https://www.jove.com/science-education/10879/-?language=Chinese

（22） 第 22 章 循环系统和呼吸系统（Viruses）全中文版视频

https://www.jove.com/science-education-library/67/circulatory-and-pulmonary-systems

22.1 呼吸系统（The Respiratory System）

https://www.jove.com/science-education/10881/?language=Chinese

22.2 呼吸（Breathing）

https://www.jove.com/science-education/10882/?language=Chinese

22.3 肺活量（Lung Capacity）

https://www.jove.com/science-education/10883/?language=Chinese

22.4 气体交换和运输（Gas Exchange and Transport）

https://www.jove.com/science-education/10884/?language=Chinese

22.5 循环系统的解剖（Anatomy of the Circulatory System）

https://www.jove.com/science-education/10885/?language=Chinese

22.6 心脏解剖（Anatomy of the Heart）

https://www.jove.com/science-education/10886/?language=Chinese

22.7 心脏循环（The Cardiac Cycle）

https://www.jove.com/science-education/10887/?language=Chinese

22.8 血流（Blood Flow）

https://www.jove.com/science-education/10888/?language=Chinese

（23） 第 23 章 渗透调节和排泄（Osmoregulation and Excretion）

https://www.jove.com/science-education-library/68/osmoregulation-and-excretion 全中文版视频

23.1 什么是渗透调节和排泄（What Are Osmoregulation and Excretion）

https://www.jove.com/science-education/11001/?language=Chinese

23.2 肾结构（Kidney Structure）

https://www.jove.com/science-education/10890/?language=Chinese

23.3过滤（Filtration）

https://www.jove.com/science-education/10891/?language=Chinese

23.4尿素循环（Urea Cycle）

https://www.jove.com/science-education/10892/?language=Chinese

23.5激素调节（Hormonal Regulation）

https://www.jove.com/science-education/10893/?language=Chinese

23.6排泄系统比较（Comparative Excretory Systems）

https://www.jove.com/science-education/10998/?language=Chinese

23.7鱼类的渗透调节（Osmoregulation in Fishes）

https://www.jove.com/science-education/10989/?language=Chinese

23.8昆虫中的渗透调节（Osmoregulation in Insects）

https://www.jove.com/science-education/10990/?language=Chinese

（24） 第 24 章 免疫系统（Immune System） https://www.jove.com/science-education-library/69/immune-system 全中文版视频

24.1 什么是免疫系统（What is the Immune System）

https://www.jove.com/science-education/10895/?language=Chinese

24.2 细胞介导的免疫反应（Cell-mediated Immune Responses）

https://www.jove.com/science-education/10896/?language=Chinese

24.3体液免疫反应（Humoral Immune Responses）

https://www.jove.com/science-education/10897/?language=Chinese

24.4抗体结构（Antibody Structure）

https://www.jove.com/science-education/10898/?language=Chinese

24.5亲和力（Affinity and Avidity）

https://www.jove.com/science-education/10899/?language=Chinese

24.6交叉反应（Cross-reactivity）

https://www.jove.com/science-education/10900/?language=Chinese

24.7过敏反应（Allergic Reactions）

https://www.jove.com/science-education/10901/?language=Chinese

24.8发炎（Inflammation）

https://www.jove.com/science-education/10902/?language=Chinese

24.9接种疫苗（Vaccinations）

https://www.jove.com/science-education/10903/?language=Chinese

（25） 第 25 章 生殖和发育（Reproduction and Development） https://www.jove.com/science-education-library/70/reproduction-and-development 全中文版视频

25.1 精子发生（Spermatogenesis）

https://www.jove.com/science-education/10905/?language=Chinese

25.2 卵子发生（Oogenesis）

https://www.jove.com/science-education/10906/?language=Chinese

25.3 受精（Fertilization）

https://www.jove.com/science-education/10907/?language=Chinese

25.4 解理和囊胚形成（Cleavage and Blastulation）

https://www.jove.com/science-education/10908/?language=Chinese

25.5 原肠胚形成（Gastrulation）

https://www.jove.com/science-education/10909/?language=Chinese

25.6 神经胚形成（Neurulation）

https://www.jove.com/science-education/10910/?language=Chinese

25.7 细胞迁移（Cell Migration）

https://www.jove.com/science-education/10911/?language=Chinese

25.8 判定（Determination）

https://www.jove.com/science-education/10912/?language=Chinese

5. 生态学（Ecology）

（26） 第 26 章 行为（Behavior）全中文版视频

https://www.jove.com/science-education-library/72/behavior

26.1 什么是行为（What is Behavior）

https://www.jove.com/science-education/10914/?language=Chinese

26.2 印迹（Imprinting）

https://www.jove.com/science-education/10915/?language=Chinese

26.3 交流（Communication）

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26.4 迁移（Migration）

https://www.jove.com/science-education/10917/?language=Chinese

26.5 伴侣选择（Mate Choice）

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26.6 修复了的动作模式（Fixed Action Patterns）

https://www.jove.com/science-education/10919/?language=Chinese

26.7 最佳觅食（Optimal Foraging）

https://www.jove.com/science-education/10920/?language=Chinese

26.8 父母照顾（Parental Care）

https://www.jove.com/science-education/10921/?language=Chinese

26.9 利他主义（Altruism）

https://www.jove.com/science-education/10922/?language=Chinese

26.10 包容性健身（Inclusive Fitness）

https://www.jove.com/science-education/10923/?language=Chinese

（27）第 27 章 生态系统（Ecosystems）https://www.jove.com/science-education-library/73/ecosystems 全中文版视频

27.1 什么是生态系统（What is an Ecosystem）

https://www.jove.com/science-education/10926/?language=Chinese

27.2 营养级别（Trophic Levels）

https://www.jove.com/science-education/10927/?language=Chinese

27.3 初级生产（Primary Production）

https://www.jove.com/science-education/10928/?language=Chinese

27.4 生产效率（Production Efficiency）

https://www.jove.com/science-education/10929/?language=Chinese

27.5 生产效率（Trophic Efficiency）

https://www.jove.com/science-education/10930/?language=Chinese

27.6 什么是生物地球化学循环（What are Biogeochemical Cycles）

https://www.jove.com/science-education/10931/?language=Chinese

27.7 水循环（The Water Cycle）

https://www.jove.com/science-education/10932/?language=Chinese

27.8 碳循环（The Carbon Cycle）

https://www.jove.com/science-education/10933/?language=Chinese

27.9 氮循环（The Nitrogen Cycle）

https://www.jove.com/science-education/10934/?language=Chinese

27.10 磷循环（The Phosphorus Cycle）

https://www.jove.com/science-education/10935/?language=Chinese

27.11 硫循环（The Sulfur Cycle）

https://www.jove.com/science-education/10936/?language=Chinese

27.12 生物修复（Bioremediation）

https://www.jove.com/science-education/10937/?language=Chinese

（28） 第 28 章 种群生态学和群落生态学（Population and Community Ecology）

https://www.jove.com/science-education-library/74/population-and-community-ecology 全中文版视频

28.1 什么是种群和社区（What are Populations and Communities）

https://www.jove.com/science-education/10939/?language=Chinese

28.2 分布及分散（Distribution and Dispersion）

https://www.jove.com/science-education/10940/?language=Chinese

28.3生活历史（Life Histories）

https://www.jove.com/science-education/10941/?language=Chinese

28.4能源预算（Energy Budgets）

https://www.jove.com/science-education/10942/?language=Chinese

28.5人口增长（Population Growth）

https://www.jove.com/science-education/10943/?language=Chinese

28.6生态位（Ecological Niches）

https://www.jove.com/science-education/10968/?language=Chinese

28.7生态继承（Ecological Succession）

https://www.jove.com/science-education/10991/?language=Chinese

28.8 拱心石物种（Keystone Species）

https://www.jove.com/science-education/10992/?language=Chinese

28.9合作关系(Symbiosis)

https://www.jove.com/science-education/10944/?language=Chinese

28.10 竞争（Competition)

https://www.jove.com/science-education/10993/?language=Chinese

28.11 捕食者与猎物的相互作用(Predator-Prey Interactions)

https://www.jove.com/science-education/10996/?language=Chinese

28.12 生态干扰（Ecological Disturbance)

https://www.jove.com/science-education/11123/ecological-disturbance

（29） 第 29 章 生物多样性与保护（Biodiversity and Conservation）

https://www.jove.com/science-education-library/76/biodiversity-and-conservation 全中文版视频

29.1 什么是生物多样性（What is Biodiversity）

https://www.jove.com/science-education/10950/?language=Chinese

29.2 对生物多样性的威胁（Threats to Biodiversity）

https://www.jove.com/science-education/10951/?language=Chinese

29.3 生物多样性和人类价值观（Biodiversity and Human Values）

https://www.jove.com/science-education/10952/?language=Chinese

29.4 什么是保护生物学（What is Conservation Biology）

https://www.jove.com/science-education/10994/?language=Chinese

29.5 可持续发展（Sustainable Development）

https://www.jove.com/science-education/10995/?language=Chinese

29.6 小规模群体的保护（Conservation of Small Populations）

https://www.jove.com/science-education/10999/?language=Chinese

29.7 什么是天气（What is Weather）

https://www.jove.com/science-education/10946/?language=Chinese

29.8 什么是气候（What is Climate）

https://www.jove.com/science-education/10947/?language=Chinese

29.9 全球气候变化（Global Climate Change）

https://www.jove.com/science-education/10948/?language=Chinese

29.10 保护衰退群体（Conservation of Declining Populations）

https://www.jove.com/science-education/11124/conservation-of-declining-populations

29.11 栖息地破碎（Habitat Fragmentation）

https://www.jove.com/science-education/11125/habitat-fragmentation

6. 进化（Evolution）

（30）第 30 章 物种形成和物种多样性（Speciation and Diversity）全中文版视频

https://www.jove.com/science-education-library/78/speciation-and-diversity

30.1 什么是物种（What is a Species）

https://www.jove.com/science-education/10954/?language=Chinese

30.2 物种的形成（Formation of Species）

https://www.jove.com/science-education/10955/?language=Chinese

30.3 形态比率（Speciation Rates）

https://www.jove.com/science-education/10956/?language=Chinese

30.4 物种遗传学（Genetics of Speciation）

https://www.jove.com/science-education/11126/genetics-of-speciation

30.5 混合区（Hybrid Zones）

https://www.jove.com/science-education/11127/hybrid-zones

（31）第 31 章 自然选择（Ecosystems）https://www.jove.com/science-education-library/79/natural-selection 全中文版视频

31.1 什么是自然选择（What is Natural Selection）

https://www.jove.com/science-education/10958/?language=Chinese

31.2 选择类型（Types of Selection）

https://www.jove.com/science-education/10959/?language=Chinese

31.3 频率相关选择（Frequency-dependent Selection）

https://www.jove.com/science-education/10960/?language=Chinese

31.4 自然选择的限制（Limits to Natural Selection）

https://www.jove.com/science-education/11000/?language=Chinese

（32）第 32 章 群体遗传学（Population Genetics）全中文版视频

https://www.jove.com/science-education-library/80/population-genetics

32.1 什么是种群遗传学（What is Population Genetics）

https://www.jove.com/science-education/10962/?language=Chinese

32.2 哈代 - 温伯格原理（Hardy-Weinberg Principle）

https://www.jove.com/science-education/10963/-?language=Chinese

32.3 突变，基因流和遗传漂移（Mutation, Gene Flow, and Genetic Drift）

https://www.jove.com/science-education/10964/?language=Chinese

32.4 遗传漂移（Genetic Drift）

https://www.jove.com/science-education/11128/genetic-drift

32.5 基因流（Gene Flow）

https://www.jove.com/science-education/11129/gene-flow

（33） 第 33 章 进化史（Evolutionary History）全中文版视频
https://www.jove.com/science-education-library/81/evolutionary-history

33.1 系统发育树（Phylogenetic Trees）
https://www.jove.com/science-education/11014/?language=Chinese

33.2 早期地球的条件（Conditions on Early Earth）
https://www.jove.com/science-education/11015/?language=Chinese

33.3 土地殖民化（The Colonization of Land）
https://www.jove.com/science-education/11016/?language=Chinese

33.4 进化史是什么（What is Evolutionary History）
https://www.jove.com/science-education/11130/what-is-evolutionary-history

33.5 进化的证据（The Evidence for Evolution）
https://www.jove.com/science-education/11131/the-evidence-for-evolution

33.6 化石记录（The Fossil Record）
https://www.jove.com/science-education/11132/the-fossil-record

33.7 趋同进化（Convergent Evolution）
https://www.jove.com/science-education/11133/convergent-evolution

7. 植物生物学（Plant Biology）

（34） 第 34 章 植物的结构，生长和营养（Plant Structure, Growth, and Nutrition）
https://www.jove.com/science-education-library/96/plant-structure-growth-and-nutrition

34.1 植物多样性概述（Introduction to Plant Diversity）
https://www.jove.com/science-education/11086/introduction-to-plant-diversity

34.2 无维管无核植物（Non-vascular Seedless Plants）
https://www.jove.com/science-education/11087/non-vascular-seedless-plants

34.3 有维管无核植物（Seedless Vascular Plants）
https://www.jove.com/science-education/11088/seedless-vascular-plants

34.4 种子植物概述（Introduction to Seed Plants）
https://www.jove.com/science-education/11089/introduction-to-seed-plants

34.5 植物的基本结构：根茎叶（Basic Plant Anatomy: Roots, Stems, and Leaves）
https://www.jove.com/science-education/11090/basic-plant-anatomy-roots-stems-and-leaves

34.6 植物细胞和组织（Plant Cells and Tissues）
https://www.jove.com/science-education/11091/plant-cells-and-tissues

34.7 分生组织与植物生长（Meristems and Plant Growth）
https://www.jove.com/science-education/11092/meristems-and-plant-growth

34.8 根，芽的出生和次生生长（Primary and Secondary Growth in Roots and Shoots）
https://www.jove.com/science-education/11093/primary-and-secondary-growth-in-roots-and-shoots
34.9 形态发生（Morphogenesis）
https://www.jove.com/science-education/11094/morphogenesis
34.10 光的获得（Light Acquisition）
https://www.jove.com/science-education/11095/light-acquisition
34.11 水和矿物质的获得（Water and Mineral Acquisition）
https://www.jove.com/science-education/11096/water-and-mineral-acquisition
34.12 资源的短途运输（Short-distance Transport of Resources）
https://www.jove.com/science-education/11098/xylem-and-transpiration-driven-transport-of-resources
34.13 木质部和蒸腾驱动的资源运输（Xylem and Transpiration-driven Transport of Resources）
https://www.jove.com/science-education/11098/xylem-and-transpiration-driven-transport-of-resources
34.14 气孔对蒸腾的调节（Regulation of Transpiration by Stomata）
https://www.jove.com/science-education/11099/regulation-of-transpiration-by-stomata
34.15 减少水流失的适应性措施（Adaptations that Reduce Water Loss）
https://www.jove.com/science-education/11100/adaptations-that-reduce-water-loss
34.16 韧皮部和糖的运输（Phloem and Sugar Transport）
https://www.jove.com/science-education/11101/phloem-and-sugar-transport
34.17 土壤生态系统（The Soil Ecosystem）
https://www.jove.com/science-education/11102/the-soil-ecosystem
34.18 植物营养的关键要素（Key Elements for Plant Nutrition）
https://www.jove.com/science-education/11103/key-elements-for-plant-nutrition
34.19 细菌和真菌在植物营养中的作用（The Roles of Bacteria and Fungi in Plant Nutrition）
https://www.jove.com/science-education/11104/the-roles-of-bacteria-and-fungi-in-plant-nutrition
34.20 附生植物，寄生虫和食肉动物（Epiphytes, Parasites, and Carnivores）
https://www.jove.com/science-education/11105/epiphytes-parasites-and-carnivores
34.21 质外体和共质体（The Apoplast and Symplast）
https://www.jove.com/science-education/11106/the-apoplast-and-symplast

（35） 第 35 章 植物的繁殖（Plant Reproduction）https://www.jove.com/science-education-library/97/plant-reproduction

35.1 花粉和花的结构（Pollination and Flower Structure）
https://www.jove.com/science-education/11107/pollination-and-flower-structure
35.2 被子植物的生命周期（The Angiosperm Life Cycle）
https://www.jove.com/science-education/11108/the-angiosperm-life-cycle
35.3 种子的结构和孢芽植物的早期发育（Seed Structure and Early Development of the Sporophyte）
https://www.jove.com/science-education/11109/seed-structure-and-early-development-of-the-sporophyte
35.4 果实的发育，结构和功能（Fruit Development, Structure, and Function）
https://www.jove.com/science-education/11110/fruit-development-structure-and-function
35.5 无性繁殖（Asexual Reproduction）
https://www.jove.com/science-education/11111/asexual-reproduction
35.6 植物组织培养（Plant Tissue Culture）
https://www.jove.com/science-education/11112/plant-tissue-culture
35.7 植物育种与生物技术（Plant Breeding and Biotechnology）
https://www.jove.com/science-education/11113/plant-breeding-and-biotechnology

（36） 第 36 章 植物对环境的反应（Plant Responses to the Environment）
https://www.jove.com/science-education-library/98/plant-responses-to-the-environment
36.1 植物激素（Plant Hormones）
https://www.jove.com/science-education/11114/plant-hormones
36.2 光受体和植物对光的反应（Photoreceptors and Plant Responses to Light）
https://www.jove.com/science-education/11115/photoreceptors-and-plant-responses-to-light
36.3 生物钟和季节性反应（Biological Clocks and Seasonal Responses）
https://www.jove.com/science-education/11116/biological-clocks-and-seasonal-responses
36.4 对重力和触摸的反应（Responses to Gravity and Touch）
https://www.jove.com/science-education/11117/responses-to-gravity-and-touch
36.5 对干旱和洪水的反应（Responses to Drought and Flooding）
https://www.jove.com/science-education/11118/responses-to-drought-and-flooding
36.6 对冷热压力的反应（Responses to Heat and Cold Stress）
https://www.jove.com/science-education/11119/responses-to-heat-and-cold-stress
36.7 对高盐压力的反应（Responses to Salt Stress）
https://www.jove.com/science-education/11120/responses-to-salt-stress
36.8 对病原体和草食动物的防御（Defenses Against Pathogens and

Herbivores）
https://www.jove.com/science-education/11121/defenses-against-pathogens-and-herbivores

二、社会心理学核心课程 （Core Social Psychology），https://www.jove.com/science-education/corepsych 共 66 个视频。**视频全部有中文字幕**

（1） 第 1 章 研究方法（Research Methods）
https://www.jove.com/science-education-library/86/research-methods

1.1 科学方法（The Scientific Method）
https://www.jove.com/science-education/11018/the-scientific-method

1.2 案例研究（Case Studies）
https://www.jove.com/science-education/11019/case-studies

1.3 自然观察（Naturalistic Observations）
https://www.jove.com/science-education/11020/naturalistic-observations

1.4 调查（Surveys）
https://www.jove.com/science-education/11021/surveys

1.5 档案研究（Archival Research）
https://www.jove.com/science-education/11022/archival-research

1.6 纵向研究（Longitudinal Research）
https://www.jove.com/science-education/11023/longitudinal-research

1.7 横断面研究（Cross-Sectional Research）
https://www.jove.com/science-education/11024/cross-sectional-research

1.8 分组设计（Group Design）
https://www.jove.com/science-education/11025/group-design

1.9 析因设计（Factorial Design）
https://www.jove.com/science-education/11026/factorial-design

1.10 安慰剂效应（The Placebo Effect）
https://www.jove.com/science-education/11027/the-placebo-effect

1.11 设盲法（Blind Procedures）
https://www.jove.com/science-education/11028/blind-procedures

1.12 研究中的伦理（Ethics in Research）
https://www.jove.com/science-education/11029/ethics-in-research

1.13 相关（Correlations）
https://www.jove.com/science-education/11030/correlations

1.14 因果（Cause and Effect）
https://www.jove.com/science-education/11031/cause-and-effect

1.15 可靠性和有效性（Reliability and Validity）
https://www.jove.com/science-education/11032/reliability-and-validity

1.16 向均值回归（Regression Toward the Mean）
https://www.jove.com/science-education/11033/regression-toward-the-mean

1.17 集中趋势测度（Measures of Central Tendency）
https://www.jove.com/science-education/11034/measures-of-central-

tendency

1.18 变化：正态分布，范围和标准偏差（Variation: Normal Distribution, Range, and Standard Deviation）
https://www.jove.com/science-education/11035/variation-normal-distribution-range-and-standard-deviation

1.19 统计学意义（Statistical Significance）
https://www.jove.com/science-education/11036/statistical-significance

（2） 第 2 章 社会自我（The Social Self）
https://www.jove.com/science-education-library/87/the-social-self

2.1 自我意识：反映的自我评价和社会比较（The Sense of Self: Reflected Self-Appraisal and Social Comparison）
https://www.jove.com/science-education/11037/the-sense-of-self-reflected-self-appraisal-and-social-comparison

2.2 自我图式（Self-Schemas）
https://www.jove.com/science-education/11038/self-schemas

2.3 特性与状态自尊（Trait and State Self-Esteem）
https://www.jove.com/science-education/11039/trait-and-state-self-esteem

2.4 自我评价：自我增强和自我验证（Self-Evaluation: Self-Enhancement and Self-Verification）
https://www.jove.com/science-education/11040/self-evaluation-self-enhancement-and-self-verification

2.5 自差理论（Self-Discrepancy Theory）
https://www.jove.com/science-education/11041/self-discrepancy-theory

2.6 自我表现：自我监控和自我障碍（Self-Presentation: Self-Monitoring and Self-Handicapping）
https://www.jove.com/science-education/11042/self-presentation-self-monitoring-and-self-handicapping

（3） 第 3 章 社会判断与决策（Social Judgment and Decision-Making）
https://www.jove.com/science-education-library/88/social-judgment-and-decision-making

3.1 理性与直觉（Reason and Intuition）
https://www.jove.com/science-education/11043/reason-and-intuition

3.2 模式（Schemas）
https://www.jove.com/science-education/11044/schemas

3.3 社交脚本（Social Scripts）
https://www.jove.com/science-education/11045/social-scripts

3.4 可用性启发式（The Availability Heuristic）
https://www.jove.com/science-education/11046/the-availability-heuristic

3.5 代表性启发式（The Representativeness Heuristic）
https://www.jove.com/science-education/11047/the-representativeness-heuristic

3.6 锚定和调整启发式（The Anchoring-and-Adjustment Heuristic）
https://www.jove.com/science-education/11048/the-anchoring-and-

adjustment-heuristic

3.7 确认偏见（Confirmation Biases）
https://www.jove.com/science-education/11049/confirmation-biases

3.8 后见之明偏见（Hindsight Biases）
https://www.jove.com/science-education/11050/hindsight-biases

3.9 构图效果（Framing Effects）
https://www.jove.com/science-education/11051/framing-effects

（4） 第 4 章 理解和影响他人（Understanding and Influencing Others）
https://www.jove.com/science-education-library/89/understanding-and-influencing-others

4.1 归因理论（Attribution Theory）
https://www.jove.com/science-education/11052/attribution-theory

4.2 基本归因误差（Fundamental Attribution Error）
https://www.jove.com/science-education/11053/fundamental-attribution-error

4.3 斯坦福监狱实验（The Stanford Prison Experiment）
https://www.jove.com/science-education/11054/the-stanford-prison-experiment

4.4 一致性（Conformity）
https://www.jove.com/science-education/11055/conformity

4.5 服从（Obedience）
https://www.jove.com/science-education/11056/obedience

4.6 米尔格拉姆对权威的服从试验（Milgram's Obedience to Authority）
https://www.jove.com/science-education/11057/milgram-s-obedience-to-authority

4.7 无意识模仿（Nonconscious Mimicry）
https://www.jove.com/science-education/11058/nonconscious-mimicry

（5） 第 5 章 态度和说服力（Attitudes and Persuasion）
https://www.jove.com/science-education-library/90/attitudes-and-persuasion

5.1 态度（Attitudes）
https://www.jove.com/science-education/11059/attitudes

5.2 认知失调（Cognitive Dissonance）
https://www.jove.com/science-education/11060/cognitive-dissonance

5.3 说服的途径（Routes of Persuasion）
https://www.jove.com/science-education/11061/routes-of-persuasion

5.4 说服策略（Persuasion Strategies）
https://www.jove.com/science-education/11062/persuasion-strategies

5.5 社会证明（Social Proof）
https://www.jove.com/science-education/11063/social-proof

（6） 第 6 章 亲密关系（Close Relationships）
https://www.jove.com/science-education-library/91/close-relationships

6.1 关系形成（Relationship Formation）
https://www.jove.com/science-education/11064/relationship-formation

6.2 社会交流理论（Social Exchange Theory）
https://www.jove.com/science-education/10713/?language=Chinese
6.3 斯特恩伯格的三角恋爱理论（Sternberg's Triangular Theory of Love）
https://www.jove.com/science-education/11067/theory-of-romantic-attachment-in-adulthood
6.4 成年时期的浪漫依恋理论（Theory of Romantic Attachment in Adulthood）
https://www.jove.com/science-education/11067/theory-of-romantic-attachment-in-adulthood

（7） 第 7 章 刻板印象，偏见和歧视（Stereotypes, Prejudice, and Discrimination）
https://www.jove.com/science-education-library/92/stereotypes-prejudice-and-discrimination
7.1 内外组（In- and Out-Groups）
https://www.jove.com/science-education/11068/in-and-out-groups
7.2 刻板印象，偏见和歧视（Stereotypes, Prejudice, and Discrimination）
https://www.jove.com/science-education/11069/stereotypes-prejudice-and-discrimination
7.3 刻板印象内容模型（Stereotype Content Model）
https://www.jove.com/science-education/11070/stereotype-content-model
7.4 罗伯斯山洞实验（Robbers Cave）
https://www.jove.com/science-education/11071/robbers-cave
7.5 刻板印象的威胁和自我实现的预言（Stereotype Threat and Self-fulfilling Prophecies）
https://www.jove.com/science-education/11072/stereotype-threat-and-self-fulfilling-prophecies

（8） 第 8 章 帮助和伤害（Helping and Hurting）https://www.jove.com/science-education-library/93/helping-and-hurting
8.1 利己主义和利他主义（Egoism and Altruism）
https://www.jove.com/science-education/11073/egoism-and-altruism
8.2 同情（Empathy）
https://www.jove.com/science-education/11074/empathy
8.3 社会陷阱（Social Traps）
https://www.jove.com/science-education/11075/social-traps
8.4 侵略（Aggression）
https://www.jove.com/science-education/11076/aggression
8.5 霸凌（Bullying）
https://www.jove.com/science-education/11077/bullying
8.6 旁观者效应（Bystander Effect）
https://www.jove.com/science-education/11078/bystander-effect

（9） 第 9 章 群体动力学（Group Dynamics）https://www.jove.com/science-education-library/94/group-dynamics
9.1 社会便利（Social Facilitation）
https://www.jove.com/science-education/11079/social-facilitation

9.2 社会游荡（Social Loafing）
https://www.jove.com/science-education/11080/social-loafing
9.3 群极化（Group Polarization）
https://www.jove.com/science-education/11081/group-polarization
9.4 集体思考（Groupthink）
https://www.jove.com/science-education/11082/groupthink
9.5 去个体化（Deindividuation）
https://www.jove.com/science-education/11083/deindividuation

第三部分：JoVE 实验室手册（JoVE Lab Manual）共 64 个视频

一、生物学实验室手册（Lab manual：biology），https://www.jove.com/science-education-library/41/lab-bio 共 32 个视频。**视频全部有中文字幕。**

（1） 科学方法（Scientific Method）
https://www.jove.com/science-education/10552/scientific-method
（2） 人工选择（Artificial Selection）
https://www.jove.com/science-education/10555/artificial-selection
（3） 生物遗传学（Genetics of Organisms）
https://www.jove.com/science-education/10557/genetics-of-organisms
（4） 哈迪·温伯格与基因漂移（Hardy-Weinberg & Genetic Drift）
https://www.jove.com/science-education/10559/hardy-weinberg-genetic-drift
（5） 进化关系（Evolutionary Relationships）
https://www.jove.com/science-education/10561/evolutionary-relationships
（6） 扩散与渗透（Diffusion and Osmosis）
https://www.jove.com/science-education/10622/diffusion-and-osmosis
（7） 光合作用（Photosynthesis）
https://www.jove.com/science-education/10565/photosynthesis
（8） 细胞呼吸（Cellular Respiration）
https://www.jove.com/science-education/10567/cellular-respiration
（9） 循环系统的生理（Physiology of the Circulatory System）
https://www.jove.com/science-education/10625/physiology-of-the-circulatory-system
（10） 细胞分化（Cell division）
https://www.jove.com/science-education/10571/cell-division
（11） 细菌转化（Bacterial Transformation）
https://www.jove.com/science-education/10573/bacterial-transformation
（12） DNA 分离和限制性内切酶分析(DNA Isolation and Restriction Enzyme Analysis)
https://www.jove.com/science-education/10628/dna-isolation-and-restriction-enzyme-analysis
（13） 能量动力学（Energy Dynamics）
https://www.jove.com/science-education/10577/energy-dynamics
（14） 蒸腾作用（Transpiration）

https://www.jove.com/science-education/10580/transpiration

（15） 动物行为（Animal Behavior）
https://www.jove.com/science-education/10582/animal-behavior

（16） 酶活（Enzyme Activity）
https://www.jove.com/science-education/10585/enzyme-activity

(17) 细胞结构（Cell Structure）
https://www.jove.com/science-education/10587/cell-structure

(18) 大分子（Macromolecules）
https://www.jove.com/science-education/10590/macromolecules

(19) 自然选择（Natural Selection）
https://www.jove.com/science-education/10632/natural-selection

(20) 灭绝（Extinction）
https://www.jove.com/science-education/10594/extinction

(21) 衡量生物多样性（Measuring Biodiversity）
https://www.jove.com/science-education/10596/measuring-biodiversity

(22) 植物多样性（Plant Diversity）
https://www.jove.com/science-education/10598/plant-diversity

(23) 动物多样性（Animal Diversity）
https://www.jove.com/science-education/10637/animal-diversity

(24) 微生物和真菌多样性（Microbial and Fungal Diversity）
https://www.jove.com/science-education/10601/microbial-and-fungal-diversity

(25) 物种分布与生物地理学（Species Distribution and Biogeography）
https://www.jove.com/science-education/10603/species-distribution-and-biogeography

(26) 群体增长（Population Growth）
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(27) 社区多样性（Community Diversity）
https://www.jove.com/science-education/10607/community-diversity

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https://www.jove.com/science-education/10609/climate-change

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https://www.jove.com/science-education/10611/group-behavior

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https://www.jove.com/science-education/10613/optimal-foraging

(31) 性选择和伴侣选择（Sexual Selection and Mate Choice）
https://www.jove.com/science-education/10615/sexual-selection-and-mate-choice

(32) 真社会性和劳动分工（Eusociality and Division of Labor）
https://www.jove.com/science-education/10617/eusociality-and-division-of-labor

二、化学实验室手册（Lab manual：Chemistry），https://www.jove.com/science-education-library/99/lab-chem 共 32 个视频。**视频全部有中文字幕。**

（1） 实验技术（Lab Techniques）
https://www.jove.com/science-education/11135/lab-techniques

(2) 科学测量和实验技术（Scientific Measurement and Lab Skills）
https://www.jove.com/science-education/11138/scientific-measurement-and-lab-skills

(3) 化学计量，产物得率和限制性反应物（Stoichiometry, Product Yield, and Limiting Reactants）
https://www.jove.com/science-education/11141/stoichiometry-product-yield-and-limiting-reactants

(4) 氧化还原反应（Redox Reactions）
https://www.jove.com/science-education/11144/redox-reactions

(5) 理想气体定律（Ideal Gas Law）
https://www.jove.com/science-education/11147/ideal-gas-law

(6) 酸碱浓度（Acid and Base Concentrations）
https://www.jove.com/science-education/11150/acid-and-base-concentrations

(7) 缓冲液（Buffers）
https://www.jove.com/science-education/11153/buffers

(8) 反应焓（Enthalpy of Reaction）
https://www.jove.com/science-education/11156/enthalpy-of-reaction

(9) 溶解度（Solubility）
https://www.jove.com/science-education/11159/solubility

(10) 金属火焰（Metal Flame Emission）
https://www.jove.com/science-education/11162/metal-flame-emission

(11) 巴尔默系列（Balmer Series）
https://www.jove.com/science-education/11165/balmer-series

(12) 比尔定律(Beer's Law)
https://www.jove.com/science-education/11168/beer-s-law

(13) 浓度依赖性（Concentration Dependence）
https://www.jove.com/science-education/11171/concentration-dependence

(14) 温度依赖性（Temperature Dependence）
https://www.jove.com/science-education/11174/temperature-dependence

(15) 原电池（Galvanic Cells）
https://www.jove.com/science-education/11177/galvanic-cells

(16) 电解池（Electrolytic Cells）
https://www.jove.com/science-education/11180/electrolytic-cells

(17) 试验记录的正确保存（Proper Lab Notebook Keeping）
https://www.jove.com/science-education/11183/proper-lab-notebook-keeping

(18) 基础有机化学技术（Basic Organic Chemistry Techniques）
https://www.jove.com/science-education/11186/basic-organic-chemistry-techniques

(19) 熔点（Melting Points）
https://www.jove.com/science-education/11189/melting-points

(20) 沸点（Boiling Points）
https://www.jove.com/science-education/11192/boiling-points

(21) 重结晶（Recrystallization）

https://www.jove.com/science-education/11195/recrystallization

(22) 萃取（Extraction）
https://www.jove.com/science-education/11198/extraction

(23) 简单蒸馏（Simple Distillation）
https://www.jove.com/science-education/11201/simple-distillation

(24) 蒸汽蒸馏（Steam Distillation）
https://www.jove.com/science-education/11204/steam-distillation

(25) 薄层色谱（Thin-Layer Chromatography）
https://www.jove.com/science-education/11207/thin-layer-chromatography

(26) 柱层析（Column Chromatography）
https://www.jove.com/science-education/11210/column-chromatography

(27) 酯的水解（Hydrolysis of an Ester）
https://www.jove.com/science-education/11213/hydrolysis-of-an-ester

(28) 鲁米诺合成（Synthesis of Luminol）
https://www.jove.com/science-education/11216/synthesis-of-luminol

(29) 酯化作用（Esterification）
https://www.jove.com/science-education/11219/esterification

(30) 未知醛和酮的鉴定（Identification of Unknown Aldehydes and Ketones）
https://www.jove.com/science-education/11222/identification-of-unknown-aldehydes-and-ketones

(31) 染料的紫外可见光谱（UV-Vis Spectroscopy of Dyes）
https://www.jove.com/science-education/11225/uv-vis-spectroscopy-of-dyes

(32) 酒精鉴别（Identifying Alcohols）
https://www.jove.com/science-education/11228/identifying-alcohols