**General**

* Cell Specific Analysis of *Arabidopsis* Leaves Using Fluorescence Activated Cell Sorting

<http://www.jove.com/video/4214/cell-specific-analysis-arabidopsis-leaves-using-fluorescence>
* Method for the Isolation and Identification of mRNAs, microRNAs and Protein Components of Ribonucleoprotein Complexes from Cell Extracts using RIP-Chip

<http://www.jove.com/video/3851/method-for-isolation-identification-mrnas-micrornas-protein>
* Manual Restraint and Common Compound Administration Routes in Mice and Rats

<http://www.jove.com/video/2771/manual-restraint-common-compound-administration-routes-mice>
* Mouse Islet of Langerhans Isolation using a Combination of Purified Collagenase and Neutral Protease

<http://www.jove.com/video/4137/mouse-islet-langerhans-isolation-using-combination-purified>
* A High-content Imaging Workflow to Study Grb2 Signaling Complexes by Expression Cloning

http://www.jove.com/video/4382/a-high-content-imaging-workflow-to-study-grb2-signaling-complexes

* Cell Specific Analysis of *Arabidopsis* Leaves Using Fluorescence Activated Cell Sorting

http://www.jove.com/video/4214/cell-specific-analysis-arabidopsis-leaves-using-fluorescence

* Regular Care and Maintenance of a Zebrafish (*Danio rerio*) Laboratory: An Introduction

<http://www.jove.com/video/4196/regular-care-maintenance-zebrafish-danio-rerio-laboratory-an>

* Substrate Generation for Endonucleases of CRISPR/Cas Systems

<http://www.jove.com/video/4277/substrate-generation-for-endonucleases-of-crisprcas-systems>

* Mouse Islet of Langerhans Isolation using a Combination of Purified Collagenase and Neutral Protease

<http://www.jove.com/video/4137/mouse-islet-langerhans-isolation-using-combination-purified>

* Harvesting and Cryo-cooling Crystals of Membrane Proteins Grown in Lipidic Mesophases for Structure Determination by Macromolecular Crystallography

<http://www.jove.com/video/4001/harvesting-cryo-cooling-crystals-membrane-proteins-grown-lipidic>

* Use of a Robot for High-throughput Crystallization of Membrane Proteins in Lipidic Mesophases

<http://www.jove.com/video/4000/use-robot-for-high-throughput-crystallization-membrane-proteins>

* Generation, Purification, and Characterization of Cell-invasive DISC1 Protein Species

http://www.jove.com/video/4132/generation-purification-characterization-cell-invasive-disc1-protein

**Neuroscience**

* One Dimensional Turing-Like Handshake Test for Motor Intelligence

http://www.jove.com/video/2492/one-dimensional-turing-like-handshake-test-for-motor-intelligence

* MPI CyberMotion Simulator: Implementation of a Novel Motion Simulator to Investigate Multisensory Path Integration in Three Dimensions

<http://www.jove.com/video/3436/mpi-cybermotion-simulator-implementation-novel-motion-simulator-to>

* Local and Global Methods of Assessing Thermal Nociception in *Drosophila*Larvae

<http://www.jove.com/video/3837/local-global-methods-assessing-thermal-nociception-drosophila>

* Nerve Excitability Assessment in Chemotherapy-induced Neurotoxicity

<http://www.jove.com/video/3439/nerve-excitability-assessment-in-chemotherapy-induced-neurotoxicity>

* Creating Objects and Object Categories for Studying Perception and Perceptual Learning

http://www.jove.com/video/3358/creating-objects-object-categories-for-studying-perception-perceptual

* Patch Clamp Recordings in Inner Ear Hair Cells Isolated from Zebrafish

http://www.jove.com/video/4281/patch-clamp-recordings-in-inner-ear-hair-cells-isolated-from-zebrafish

* A Visual Description of the Dissection of the Cerebral Surface Vasculature and Associated Meninges and the Choroid Plexus from Rat Brain

<http://www.jove.com/video/4285/a-visual-description-dissection-cerebral-surface-vasculature>

* Whole Animal Perfusion Fixation for Rodents

<http://www.jove.com/video/3564/whole-animal-perfusion-fixation-for-rodents>

* Visualization and Genetic Manipulation of Dendrites and Spines in the Mouse Cerebral Cortex and Hippocampus using *In utero* Electroporation

<http://www.jove.com/video/4163/visualization-genetic-manipulation-dendrites-spines-mouse-cerebral>

* Video-oculography in Mice

http://www.jove.com/video/3971/video-oculography-in-mice

**Bioingeneering**

* Quantitative Locomotion Study of Freely Swimming Micro-organisms Using Laser Diffraction

http://www.jove.com/video/4412/quantitative-locomotion-study-freely-swimming-micro-organisms-using

* In vitro Synthesis of Native, Fibrous Long Spacing and Segmental Long Spacing Collagen

http://www.jove.com/video/4417/in-vitro-synthesis-native-fibrous-long-spacing-segmental-long-spacing

* Evaluation of Biomaterials for Bladder Augmentation using Cystometric Analyses in Various Rodent Models

http://www.jove.com/video/3981/evaluation-biomaterials-for-bladder-augmentation-using-cystometric

* Time-lapse Fluorescence Imaging of Arabidopsis Root Growth with Rapid Manipulation of The Root Environment Using The RootChip

http://www.jove.com/video/4290/time-lapse-fluorescence-imaging-arabidopsis-root-growth-with-rapid

* Rapid Isolation of Viable Circulating Tumor Cells from Patient Blood Samples

<http://www.jove.com/video/4248/rapid-isolation-viable-circulating-tumor-cells-from-patient-blood>

* Bridging the Bio-Electronic Interface with Biofabrication

<http://www.jove.com/video/4231/bridging-the-bio-electronic-interface-with-biofabrication>

* Non-contact, Label-free Monitoring of Cells and Extracellular Matrix using Raman Spectroscopy

http://www.jove.com/video/3977/non-contact-label-free-monitoring-cells-extracellular-matrix-using

* Use of Human Perivascular Stem Cells for Bone Regeneration

<http://www.jove.com/video/2952/use-of-human-perivascular-stem-cells-for-bone-regeneration>

* Induction of Adhesion-dependent Signals Using Low-intensity Ultrasound

http://www.jove.com/video/4024/induction-of-adhesion-dependent-signals-using-low-intensity-ultrasound

**JoVE Clinical and Translational Medicine CTM**

* Use of a Hanging-weight System for Liver Ischemia in Mice

<http://www.jove.com/video/2550/use-of-a-hanging-weight-system-for-liver-ischemia-in-mice>
* A Human Fallopian Tube Model for Investigation of *C. trachomatis*Infections

<http://www.jove.com/video/4036/a-human-fallopian-tube-model-for-investigation-c-trachomatis>
* Computed Tomography-guided Time-domain Diffuse Fluorescence Tomography in Small Animals for Localization of Cancer Biomarkers

<http://www.jove.com/video/4050/computed-tomography-guided-time-domain-diffuse-fluorescence>
* Development of Obliterative Bronchiolitis in a Murine Model of Orthotopic Lung Transplantation

<http://www.jove.com/video/3947/development-obliterative-bronchiolitis-murine-model-orthotopic-lung>
* Human Neuroendocrine Tumor Cell Lines as a Three-Dimensional Model for the Study of Human Neuroendocrine Tumor Therapy

<http://www.jove.com/video/4218/human-neuroendocrine-tumor-cell-lines-as-three-dimensional-model-for>

* Orthotopic Liver Transplantation in Rats

http://www.jove.com/video/4143/orthotopic-liver-transplantation-in-rats

* NADH Fluorescence Imaging of Isolated Biventricular Working Rabbit Hearts

 <http://www.jove.com/video/4115/nadh-fluorescence-imaging-isolated-biventricular-working-rabbit>

* Improving IV Insulin Administration in a Community Hospital

<http://www.jove.com/video/3705/improving-iv-insulin-administration-in-a-community-hospital>

* Corneal Donor Tissue Preparation for Endothelial Keratoplasty

http://www.jove.com/video/3847/corneal-donor-tissue-preparation-for-endothelial-keratoplasty

**Immunology and infection**

* Fluorescent *in situ* Hybridization on Mitotic Chromosomes of Mosquitoes

<http://www.jove.com/video/4215/fluorescent-in-situ-hybridization-on-mitotic-chromosomes-of-mosquitoes>

* Examining the Role of Nasopharyngeal-associated Lymphoreticular Tissue (NALT) in Mouse Responses to Vaccines

<http://www.jove.com/video/3960/examining-role-nasopharyngeal-associated-lymphoreticular-tissue-nalt>

* An *In vitro* Co-infection Model to Study *Plasmodium falciparum*-HIV-1 Interactions in Human Primary Monocyte-derived Immune Cells

<http://www.jove.com/video/4166/an-vitro-co-infection-model-to-study-plasmodium-falciparum-hiv-1>

* Parasite Induced Genetically Driven Autoimmune Chagas Heart Disease in the Chicken Model

http://www.jove.com/video/3716/parasite-induced-genetically-driven-autoimmune-chagas-heart-disease

* Use of Artificial Sputum Medium to Test Antibiotic Efficacy Against*Pseudomonas aeruginosa* in Conditions More Relevant to the Cystic Fibrosis Lung

<http://www.jove.com/video/3857/use-artificial-sputum-medium-to-test-antibiotic-efficacy-against>

* Reverse Genetics Mediated Recovery of Infectious Murine Norovirus

<http://www.jove.com/video/4145/reverse-genetics-mediated-recovery-of-infectious-murine-norovirus>

* Hybridization *in situ* of Salivary Glands, Ovaries, and Embryos of Vector Mosquitoes

<http://www.jove.com/video/3709/hybridization-situ-salivary-glands-ovaries-embryos-vector>

* One-day Workflow Scheme for Bacterial Pathogen Detection and Antimicrobial Resistance Testing from Blood Cultures

http://www.jove.com/video/3254/one-day-workflow-scheme-for-bacterial-pathogen-detection