VIDEO PUBLISHING: THE LONG-OVERDUE MODERNIZATION OF SCIENTIFIC RESEARCH AND EDUCATION

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Abstract

JoVE is more than a database. It is a productivity tool that was born from practical necessities and aims at bringing state of the art video demonstrations to the medical and health science community. Adding the visual component to the still rigid scientific publication landscape, research and education can greatly benefit from the media formats of the “Information Age”. JoVE advances scientific research and education by providing the resources it needs to grow and develop. Since its founding in 2006, JoVE has produced more than 10,000 video articles, (increasing every month), demonstrating experiments filmed in laboratories at top research institutions, and delivered online to millions of scientists, educators, and students worldwide. Visit our website for more information: www.jove.com

JoVE offers two distinct resources:

1 - JoVE Video Journal is our peer-reviewed journal combining high-quality video demonstrations of experiments with a detailed text protocol, allowing researchers around the globe to learn from each other easily and efficiently. This saves a lot of their time, money and laboratory resources. The fields covered include: Biology, Neuroscience, Medicine, Bioengineering, Engineering, Genetics, Cancer Research, Immunology and Infection, Chemistry, Behavior, Environment, Developmental Biology, and Biochemistry.

2 - JoVE Science Education. Educators and students use our innovative video collections in the JoVE Science Education Library to better teach and learn key concepts and fundamental techniques at the undergraduate course level. These simple, easy-to-understand video demonstrations cover a wide range of STEM subjects including Biology, Chemistry, Environmental Science, Psychology, Clinical Medicine and Engineering. Our newest additions to the Science Education library include JoVE Lab Manual, featuring 32 complete, curriculum-focused lab modules for Introductory Biology I&II lab courses, as well as JoVE Core: Bio, delivering hundreds of animated videos of foundational concepts, supporting scientific learning at all levels.

Our case studies have shown that JoVE:
- Enables professional labs to train new scientists at least 20% faster
- Reduces lab training time for students by up to 75%
- Serves as a vital knowledge transfer platform linking labs around the world

Testimonials:
Biogen Saves $100,000 and 1,400 Hours Using JoVE For Training
Injection Video Saves Stanford Lab Six Months Of Research Time
UCLA Lab Saves Thousands Of Dollars And Hours Via Animal Research Training Videos
Bioengineering Educational Videos to Bridge Students to the Real World

Keywords: best practices in multimedia-based education, technology-enhanced learning, the impact of web technologies on education, research methodologies.