



Partnership Review

Maximizing the Library's Impact on Student Learning Outcomes and Faculty Success with JoVE

CASE STUDY

Driving Students' Engagement in Undergraduate Biology
with JoVE at **University of KwaZulu-Natal**

Course
BIOL204
Applied Plant Physiology

Instructor
Dr Mbukeni Nkomo
Department of Applied
Plant Physiology

Class
160 Second Year
Undergraduate Students

The Challenge

Teaching complex biological concepts to a large class of students from different academic backgrounds can be challenging, especially when students have varying levels of prior knowledge and learning needs.



The Solution

JoVE videos from Core: Biology were embedded directly into Moodle using Common Cartridge, giving all students easy access to clear, visual demonstrations aligned with the course content. The videos helped bridge differences in students' academic backgrounds by reinforcing complex biological concepts.

IMPACT

Time Saved

Using JoVE videos helped faculty save time while improving student engagement and confidence.

4400+
video views

Students viewed JoVE videos more than 4400 times to support their learning and lab preparation.

Better Understanding

JoVE's videos helped students better understand complex Biology concepts.



Incorporating JoVE into my courses has transformed the way I teach complex scientific concepts. The high-quality videos provide clear, visual demonstrations that complement my lectures and give students a deeper, practical understanding of the material. I've seen a noticeable improvement in student engagement and comprehension since integrating JoVE resources. Having the playlists mapped directly to my course outline has also saved me time and ensured my students have seamless access to relevant, reliable content. On top of that, the JoVE team is quick to respond and always supportive, which makes the entire experience even more valuable. I highly recommend JoVE to any educator who wants to enrich their teaching and enhance the learning experience for their students.

Dr Mbukeni Nkomo



ENGAGEMENT METRICS

100% (19/19)

of Research Titles used



JoVE Journal- Biology

Aseptic Laboratory Techniques

100% (34/34)

of Education Titles used



Core: Biology

Short-distance Transport of Resources

**YEAR-OVER-YEAR
USAGE**

Jan 2025 - May 2025

13288



Jan 2026 - May 2026

17279



+30%

SUBSCRIPTION INFORMATION

JoVE Unlimited (Education | Research)

Upcoming Collections Included in Your Subscription: Core: College Algebra | Core: Developmental Psychology | Core: Pathophysiology | Core: Toxicology & Drug Safety

NEW COLLECTION:

**Information
Literacy**



The first JoVE resource developed to support library training activities.

JoVE's TEAM



Cinga Dyantyisi

Customer Success
Specialist



Ibrahim Selcuk

Account
Manager



Youssra Djaboub

Customer Success
Manager



Keyu Sumaria

Sales
Manager

