



Challenge: Dr. Michele Calos's lab needed to learn a new technique involving intra-arterial injection of stem cells in mice to further their research on muscular dystrophy. They contemplated bringing an expert from Europe to the lab to show them the method in person but needed a faster and cheaper way to learn.

Solution: After watching a JoVE video by Dr. Francesco Saverio Tedesco's group from University College of London that detailed the technique, they were able to find an appropriate collaborator at Stanford who could help them implement the method in their own lab.

"Methods are complex and can only partially be described in words. Seeing the method performed immediately provides a wealth of information to the viewer. This information conveys a realistic idea of how the method is done, what is needed to do it, and helps the viewer analyze how they should proceed."

-Dr. Michele Calos, Stanford University

Results/Benefits:

- Research in the Calos Lab has advanced by at least 6 months since researchers were able to quickly learn the ins and outs of the new technique.
- This research generated preliminary results that were used in a recent grant application that may lead to significant funding for related research projects.
- Members of the Calos Lab found this medium so effective for sharing scientific methodologies that they are in the process of preparing their own manuscript so as to rapidly disseminate their techniques to others.