Dear Editor,

You will find attached our manuscript entitled « Myelin immunostaining on organotypic cultures of cerebellar slices», by Thetiot et al., that we wish to submit to Jove following your invitation.

In the nervous system, myelin is a complex membrane structure generated by myelinating glial cells, which ensheaths axons and facilitate fast electrical conduction. Myelin alteration has been shown to occur in various neurological diseases, where it is associated with functional deficits. In order to study the myelination process, we use an *ex vivo* model corresponding to organotypic cultures of mouse cerebellar slices, which can be kept for multiple weeks in culture and further be stained to visualize myelin.

Here, we describe how to detect myelin by immunofluorescence using antibodies directed against epitopes specific to major myelin proteins. We believe that this protocol might help improve the standard of neuroscience research, reduce publication bias and improve reproducibility.

Yours sincerely

Anne Desmazières