

November 06, 2018

Re: *JoVE* Invitation to Publish

Dear Editor,

I am writing to submit for your consideration the manuscript titled, “Confocal live imaging of shoot apical meristems from different plant species”, by Yuan Geng and myself.

In this manuscript, we described in detail protocols used to live image the vegetative shoot apical meristems and inflorescence shoot apical meristems from different plant species, including the model plant *Arabidopsis* and crops, using laser scanning confocal microscopy. The method that we described in the manuscript will enable researchers to accomplish the whole experimental procedure from sample preparation to high resolution image acquisition within as short as twenty minutes. We also introduce the simple imaging processing method for analyzing and comparing different meristems in 3D.

This method provides the key results in our previous studies, and it potentially can be applied to study the meristem structure and development across many different plant species. We believe this protocol is of board interest in plant cell and developmental biology research fields, and thus, it is suitable for publication in *JoVE*.

We wish to thank you and your selected reviewers in advance for the efforts they expend to assure our work is carefully and expertly reviewed.

Sincerely,



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