



LIGHT **BYTES:** August 2019

CELESTA® Sees a Sea Urchin

This year Lumencor has once again supplied state-of-the-art solid state light engines to support the MBL Physiology course in teaching our next generation of scientists. One light engine showcased on the **Nikon Ti2** microscope with the **CrEST X-Light V2** spinning disk confocal system was the **CELESTA light engine** (Figure 1). The **CELESTA light engine** delivers approximately 1 watt of output power from each of its 7 individually addressable solid-state laser light sources (7 watts total). When coupled to the **CrEST X-Light V2** confocal system three-dimensional, multi-colored, image sets such as the one shown below (Figure 2) can be captured by users. To take a look at a video generated from multiple z sections made from the imaging of a late blastula stage of the sea urchin *Arbacia punctulata* [click here](#).

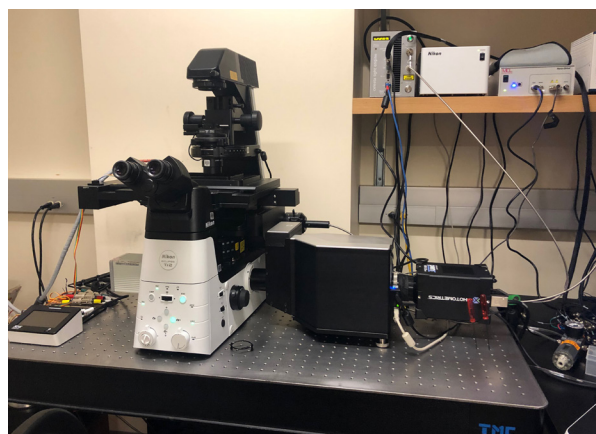


Figure 1: Nikon Ti2 with CrEST X-Light V2 and CELESTA light Engine

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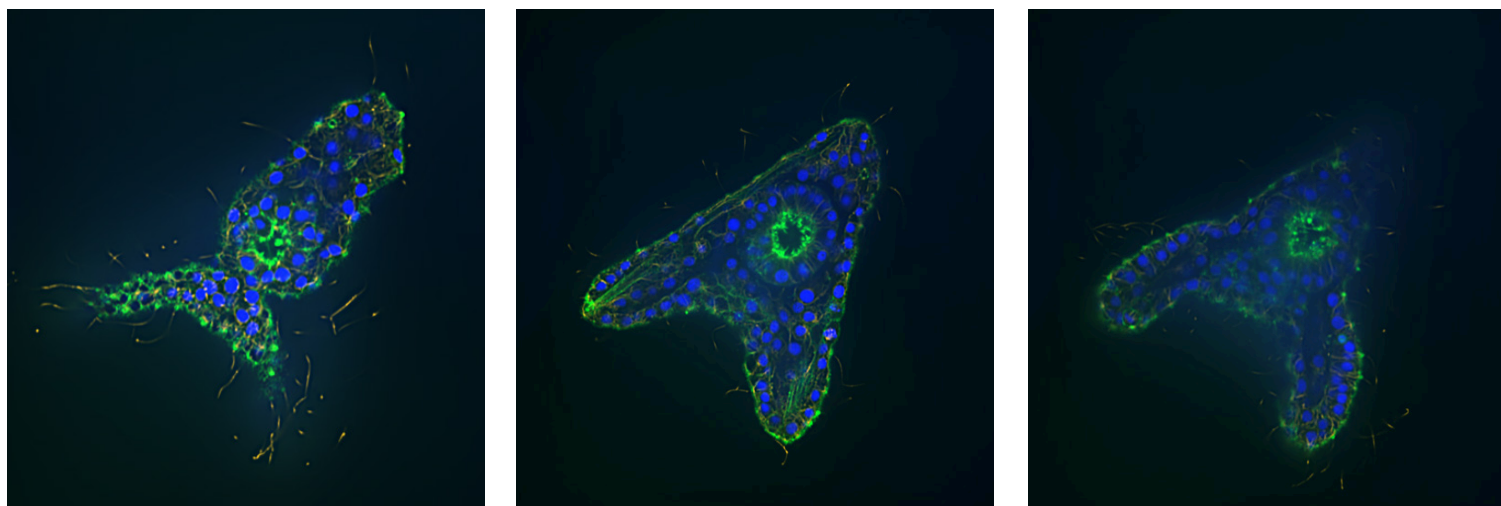


Figure 2: Various Z-sections of a late blastula stage of the sea urchin *Arbacia punctulata* stained for microtubules (red), actin filaments (green), and DNA (blue).

