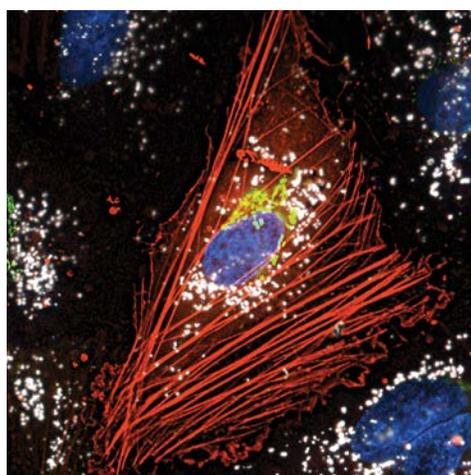


LIGHT **BYTES:** September 2019

SOLA® for The Win!

This year Lumencor launched the **Light Microscopy Imaging Competition** in celebration of Earth Day to highlight Lumencor's commitment to manufacturing bright, clean, and **mercury-free** light engines. We were impressed with the quality and breadth of applications in the submissions we received. Without further ado here are the winners for Lumencor's 2019 Earth Day Light Microscopy Imaging Competition:



1st Place - Robert Zucker

EPA, Research Triangle Park, NC
PRIZE: New SOLA SE U-nIR

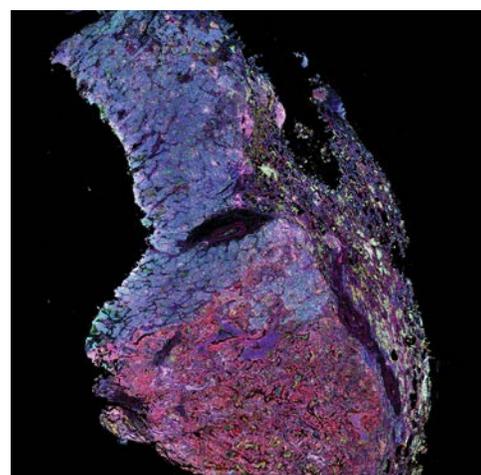
ARPE 19 cell treated with 75nm silver nanoparticles that are coated with PVP Combination of darkfield image (white nanoparticles) and fluorescence image of nuclei (blue), Golgi (green) and microtubules (red). Observation with a **Nikon Ti2 microscope** using a 60X plan Fluor lenses and a **SOLA light engine®**. The image was processed using Nikon deconvolution algorithms.



2nd Place - Glyn Nelson

University of Newcastle, UK
PRIZE: \$1,000 Off Voucher

Image of a mosquito larva's 'moustache', the fine brush hairs on the side of their mouth. Z stack deconvolved and rendered in Huygens. Larva fixed in PFA and mounted in glycerol. Imaged with a **Leica DMI8** equipped with a 40X oil 1.3 NA objective, GFP filter cube, Hamamatsu Flash4 v2 camera and a **SOLA SE light engine**.



3rd Place - Abdul Mohammed

Ultivue, Cambridge, MA
PRIZE: \$500 Off Voucher

16-plex biomarker profiling of Non-Small Cell Lung Cancer tissue (CD3, CD4, CD45RO, CD68, CD163, CD8, CD11c, CD20, PD1, PDL1, Cytokeratin, LAG3, FoxP3, Ki67, GranzymeB and MHCII). Nuclear counterstain shown in blue. The slide was processed using **Ultivue's InSituPlex technology** and imaged on a fluorescence microscope using a 20X objective and **SPECTRA X light engine®**.

These images clearly demonstrate the quality of data attainable by using Lumencor's solid state light engines. For more information on how Lumencor light engine can help you in your illumination needs please **contact us**.



OCTOBER 19TH-23RD, 2019
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