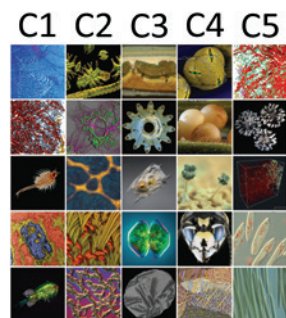


## 2019 *Microscopy Today* Micrograph Awards

Competition finalists shown on the cover are identified below. The identity and affiliation of the submitters were not known to the judges. The larger number of Open category finalists reflects the larger number of entries in this category. Prizes will be awarded on August 7 at M&M 2019. Micrographs may be viewed uncropped at the 2019 gallery (see website at the bottom of this page). The public may vote for the People's Choice Award at the same website.



### Column 1 (Published category)

- C1-1 Stainless steel 316L by additive manufacturing (reflected light microscopy) by Gaby Ketzer-Raichle
- C1-2 Macromolecules in rat neuron harboring poly-GA aggregate (cryo-EM tomogram) by Qiang Guo
- C1-3 *Artemia franciscana* (brine shrimp) at 35 days of growth (light microscopy) by Timm Piper
- C1-4 Aortic smooth muscle cell from mouse with progeria (TEM of thin section) by Thomas Weston
- C1-5 Copepod with epibiotic microalgae living in symbiosis (LM focus stack) by Håkan Kvarnström

### Columns 2, 3, and 4 (Open category of unpublished micrographs)

- C2-1 Three species of desmids in fresh pond water (LM focus stack) by Michael Much
- C2-2 Fibroblast-like cell line (COS-7) from monkey kidney tissue (STED LM) by Daniela Malide
- C2-3 Disordered regions (orange) in two-polymer Li-battery electrolyte (SEM) by Alexander Mueller
- C2-4 Potassium ferricyanide anisotropic crystals (LM with polarizer) by Jörg Piper
- C2-5 Branched structure of precipitated creatine particle aggregates (DIC LM) by Karl Gaff
- C3-1 Paint layers from the Robert Carter house, Williamsburg, VA (UV LM) by Kirsten Moffitt
- C3-2 Gear of AlSi10Mg alloy by additive manufacturing (reflected LM) by Gaby Ketzer-Raichle
- C3-3 Rotifer *Polyarthra* sp. 150  $\mu\text{m}$  long showing part of ovary (DIC LM focus stack) by Håkan Kvarnström
- C3-4 Desmid green alga *cosmarium* sp. 68  $\mu\text{m}$  wide (polarized LM) by Håkan Kvarnström
- C3-5 Cross section of urban micrometeorite from Minneapolis roof (SEM BSE) by Anette von der Handt
- C4-1 Rhododendron pollen grains with emerging pollen tubes (green) (SEM) by Changbin Chen
- C4-2 Okra seeds with partial brown skin after air exposure (LM focus stack) by Changbin Chen
- C4-3 Mold (likely *Aspergillus* sp.) on a plum seed (LM focus stack) by Sergii Dymchenko
- C4-4 Wasp head (*Vespula* sp.) with autofluorescence of eyes (vis/UV LM focus stack) by Sergii Dymchenko
- C4-5 Carbon-free martensite in a CoFeSi alloy, color-etched (reflected LM) by Felix Trauter

### Column 5 (Video category)

- C5-1 Animation of 3D rendering of rat neuronal polyGA aggregate (cryo-EM tomogram) by Qiang Guo
- C5-2 Colonies of rotifers (*Conochilus hippocrepis*) rotating via beating cilia (DF LM) by Julia Van Etten
- C5-3 Simulation of drug release through polymer membrane structure (SEM) by Shawn Zhang
- C5-4 *Paramecium caudatum* fed with Congo red stained yeast (DIC LM) by Gerd Günther
- C5-5 *Oscillatoria* sp. cyanobacteria filaments filmed in time lapse (DIC LM) by Gerd Günther

**Vote for your favorite micrograph at the 2019  
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