

JANUARY 23

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"Little Monster" ©C. Siret, CIML, CNRS UMR 7280, Inserm UMR_S 1104, Aix-Marseille Université

13.5-day-old mouse embryo. Lymphoid cells (blue) pass into the liver to proliferate before migrating through the body to give rise to lymph nodes. Nerve cells (green), blood vessels (white), lymphatic endothelial cells & some macrophages (red).

1st place of France-Biolmaging Image Contest 2022.



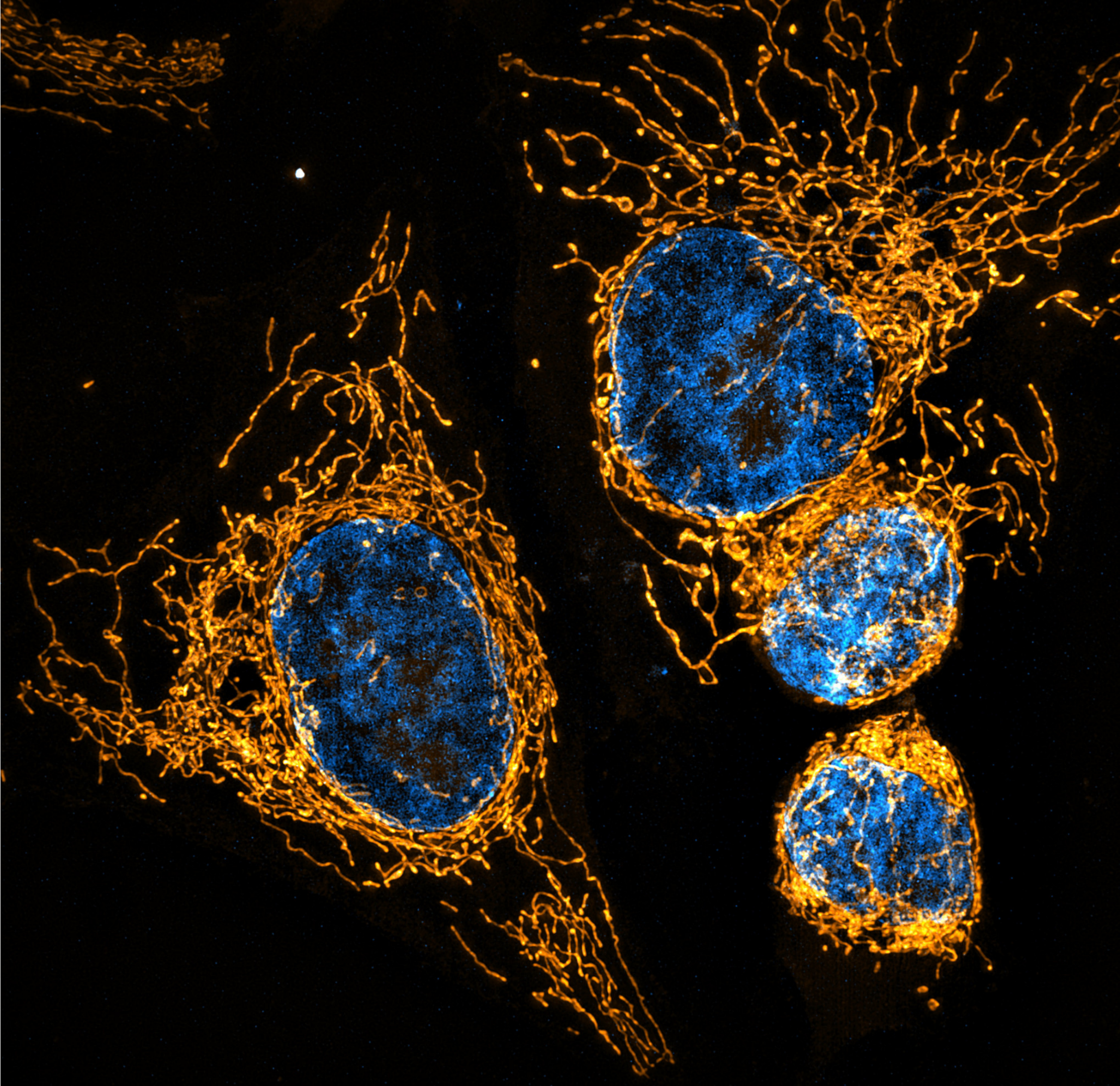
FRANCE-BIOLIMAGING

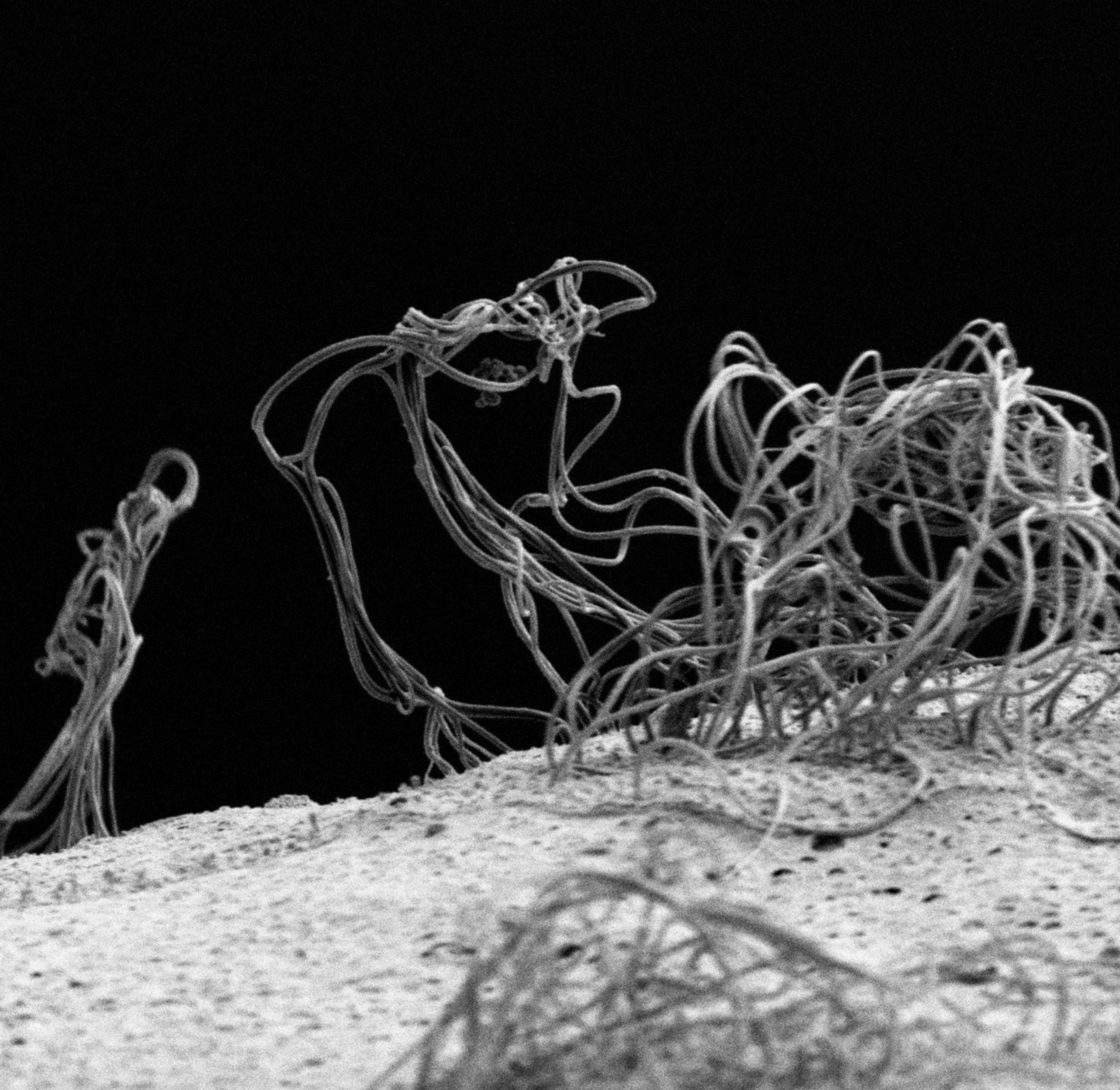
FEBRUARY

23

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"Mito-SIM" ©R. Le Bars, Imagerie-Gif, I2BC
Mitochondria (HeLa cells) labelled with MitoTracker Red and imaged with Lattice SIM.





MARCH 23

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"Walk into the wind" ©C. Boutin & N. Brouilly, IBDM, CNRS UMR 7288, Aix-Marseille Université

SEM picture of Xenopus epidermal multiciliated cells. Some saw a figure walking in the wind to join a camel.

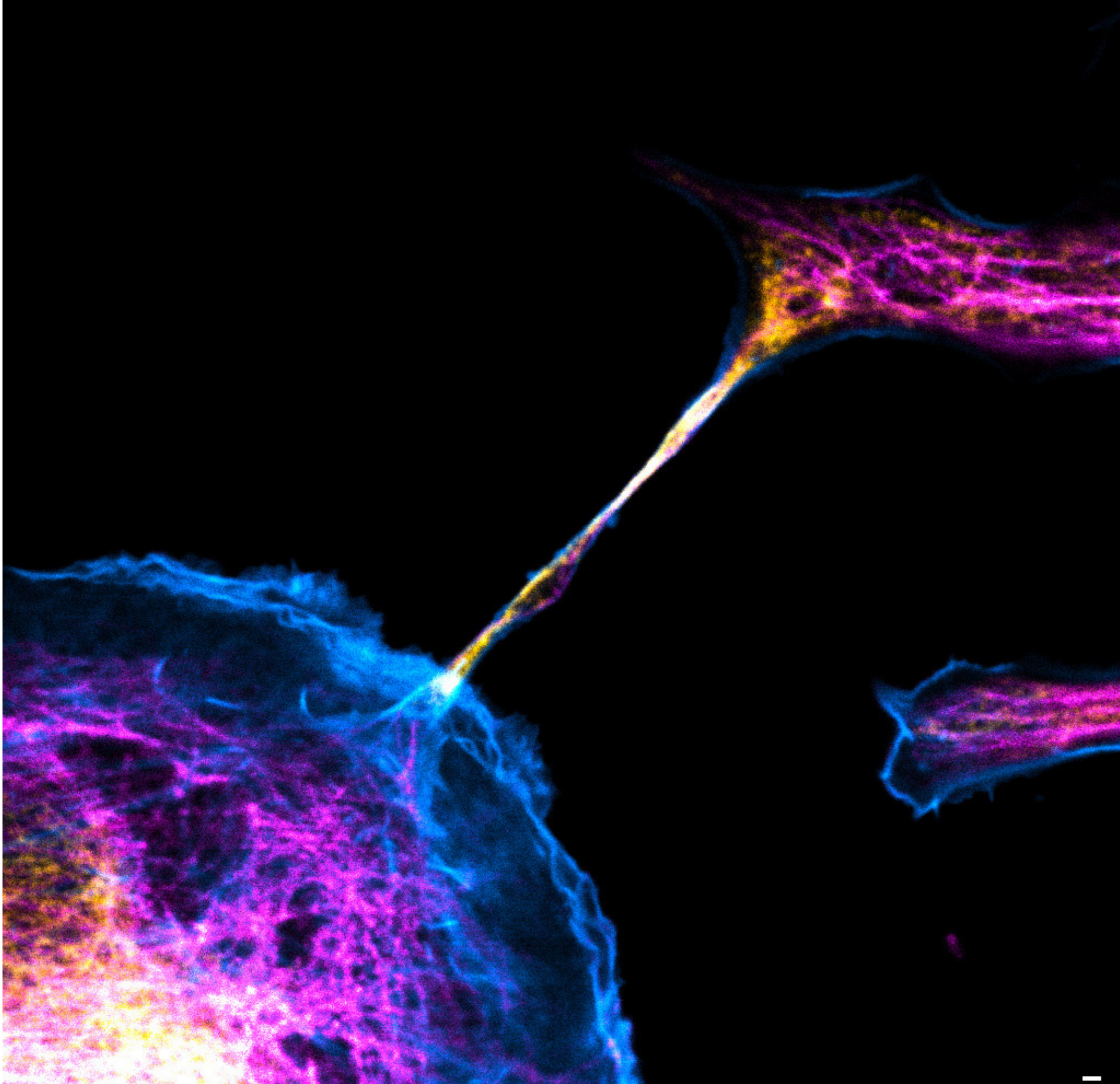


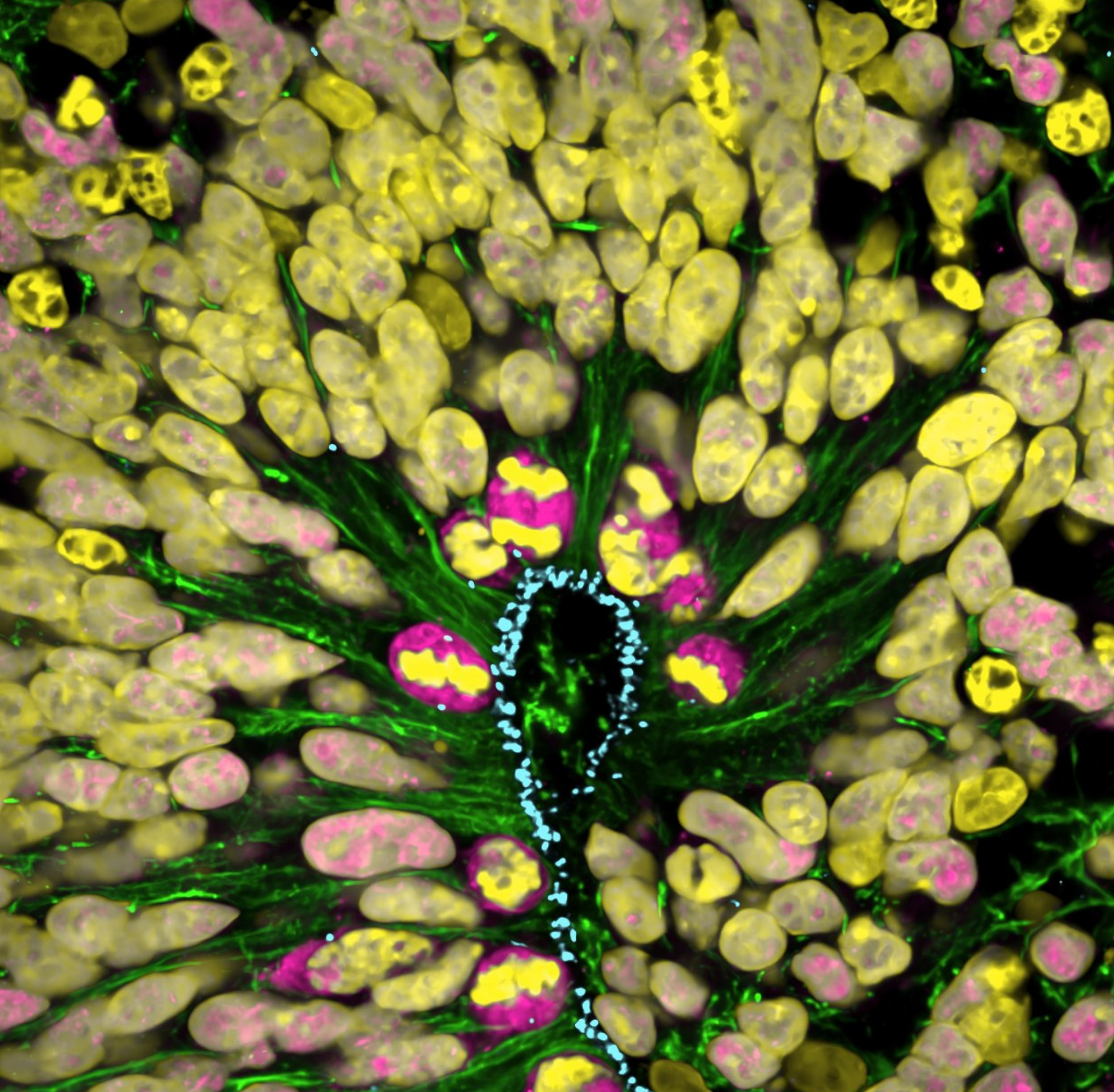
APRIL
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"The communication link with others" ©M. Bénard, PRIMACEN, HeRacLeS, Inserm US 51, CNRS UAR 2026, Université de Rouen

*Image of a cellular interconnection between two human tumor cells whose cytoskeleton has been labeled with anti-tubulin (ATTO-647N), anti-vimentin (AlexaFluor594) antibodies and with Phalloidin probe (AlexaFluor488). Scale bar 1µm.
2nd place of the France-Biolmaging Image Contest.*





MAY
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"A peacock in cerebral organoids" ©R. Wimmer, Cell Biology of Mammalian Neurogenesis, UMR144, Institut Curie

This is a week 8 human-iPS derived cerebral organoid that was imaged at the lumen which mimic an in-vivo ventricular zone in the developing human neocortex. Centrosomes (Blue) decorate the apical surface of the lumen. Each centrosome is related to one specific Apical Radial Glia cell (neural stem cells) of the developing human neocortex. Apical Radial Glia performs interkinetic nuclear migration and mitosis at surface of the apical zone of the neuroepithelium to amplify the pool of progenitors or asymetrically divide to give rise to a IP or Neuron and one new progenitor.

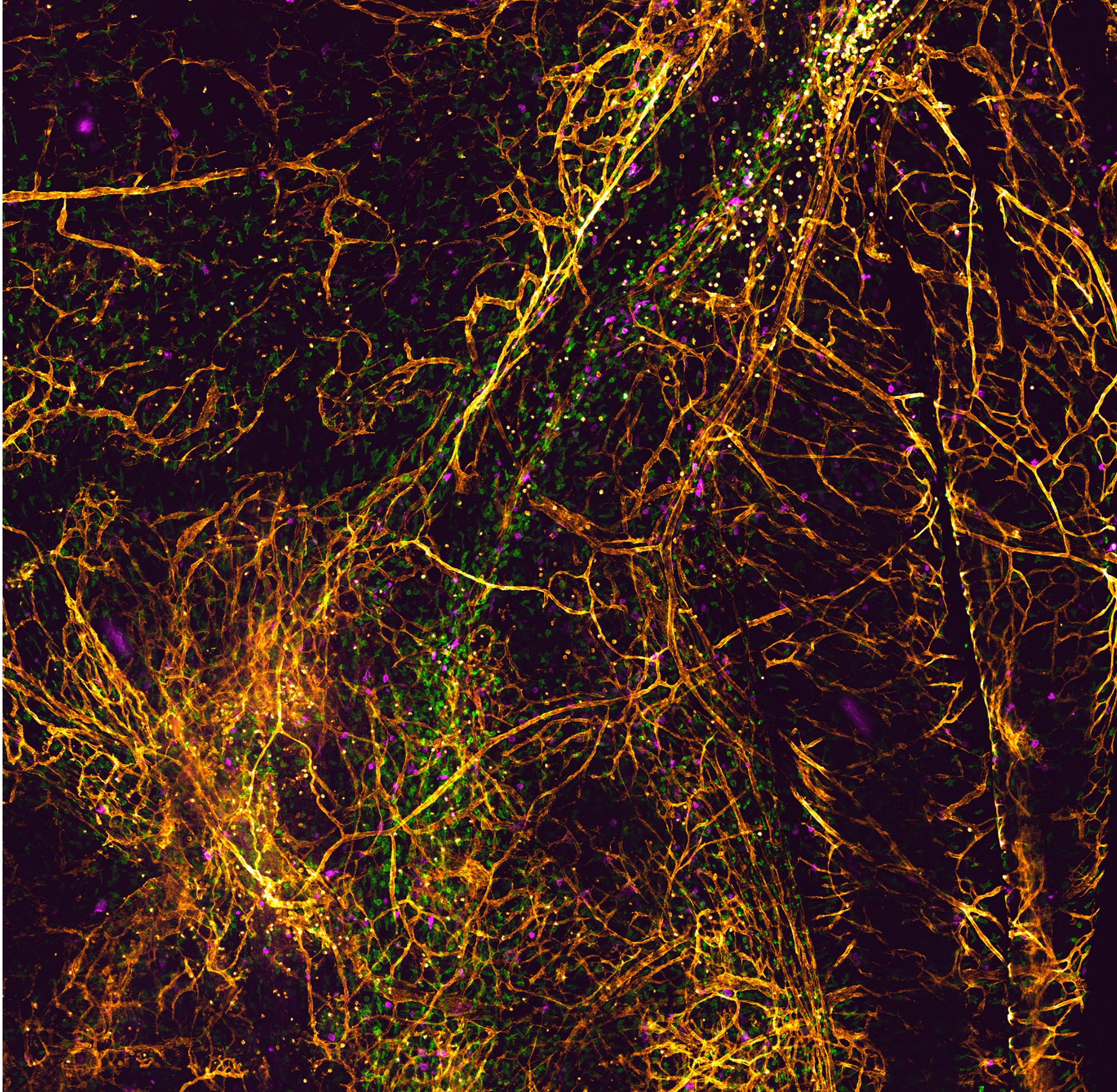


JUNE
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"Highway to cell" ©S. Mailfert, ImagImm, CIML, INSERM UMR_S 1104, CNRS UMR 7280, Aix-Marseille Université

Mouse meninges imaged by spectral confocal microscopy. Labeling of meningeal macrophages with AF647 (magenta), dendritic cells with BV421 (blue), blood vessels with anti-CD31 antibody coupled with PE (red), monocytes and blood vessels with anti-Ly6c antibody coupled with AF488 (green). Image acquired on a Zeiss LSM 780 microscope, objective 20X/0.8, laser 405, 488, 561 and 633nm.





JULY
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**"Gold Blob" ©M. Fernández Monreal, Bordeaux Imaging Center, CNRS
UAR 3420, Inserm US 004, Université de Bordeaux**

*Confocal image of blob's (Physarum polycephalum) pseudopodia. Nuclear DNA
(yellow) and actin cytoskeleton (gray) are observed.*



FRANCE-BIOIMAGING

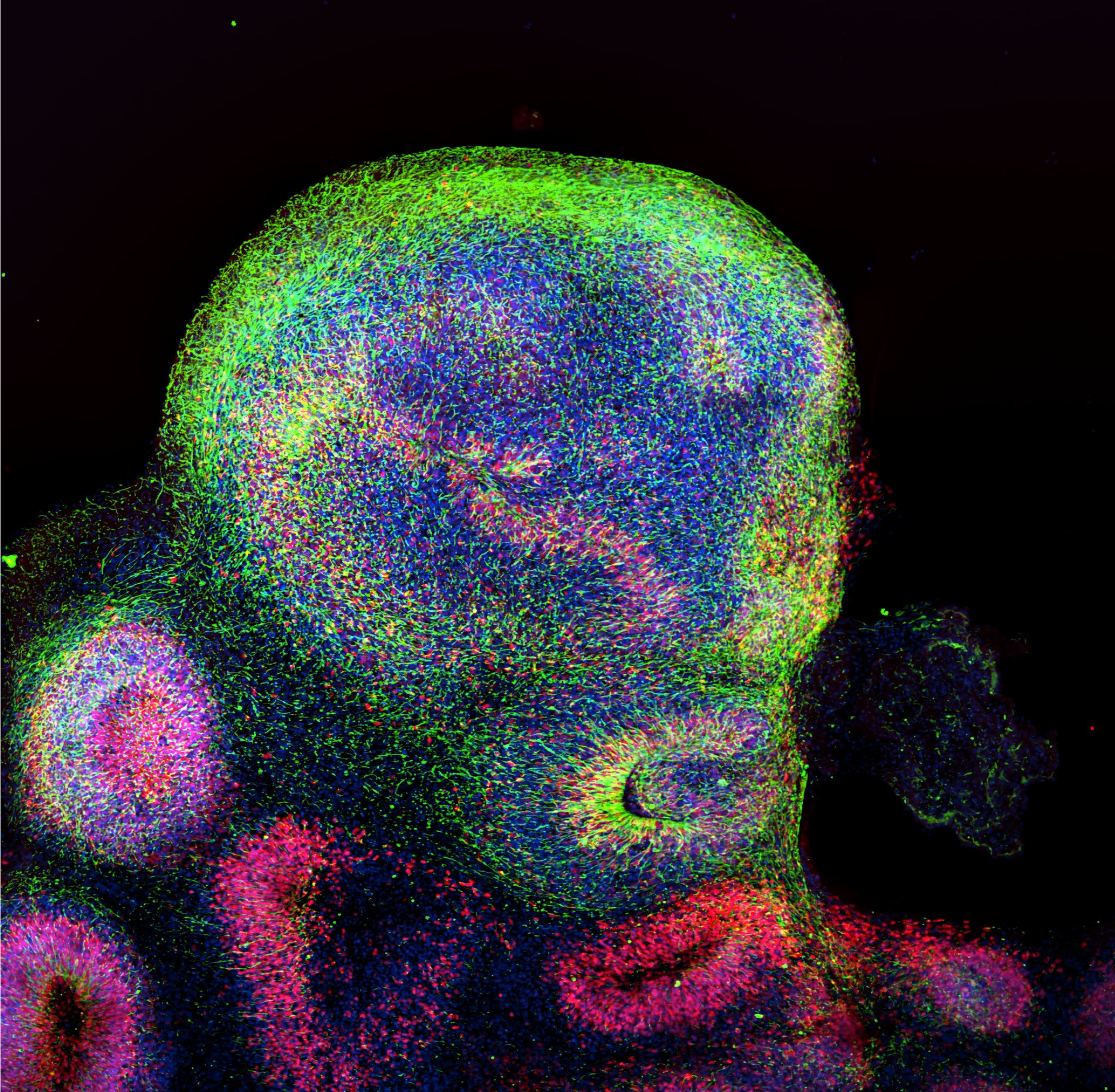
AUGUST
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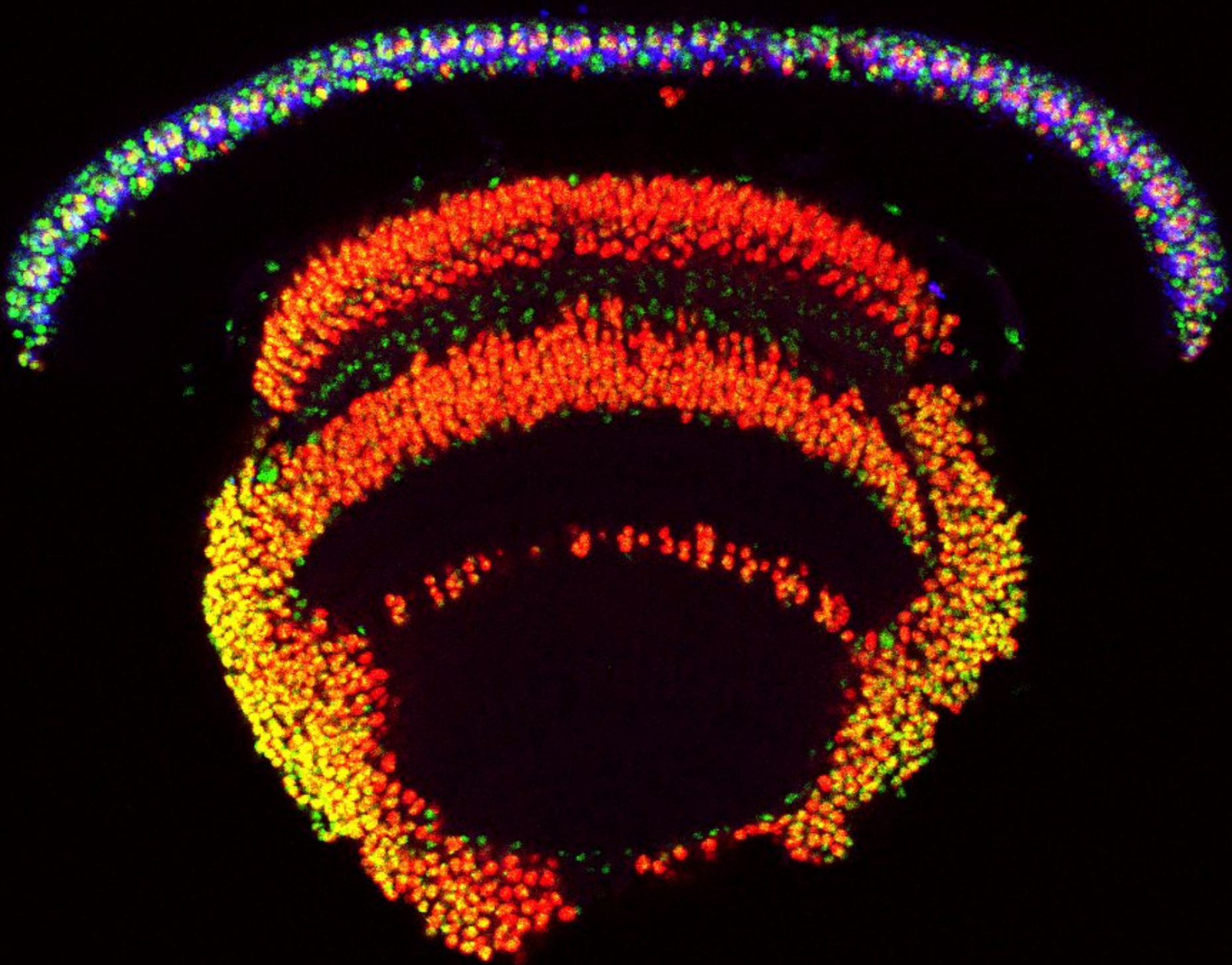
"El calaveras" ©L. Sengmanivong, PICT IBiSA-UMR144, Institut Curie
Neural stem cell organoids (Vimentine-GFP, Sox2-mCh, Ytub-Cy5 , Nucleus-Dapi)



FRANCE-BIOIMAGING



SEPTEMBER
23



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"Carpaccio de cèpe" ©S. Galant, IGF, CNRS UMR 5203, Inserm U 1191, Université de Montpellier

Optic lobe and retina of a Drosophila pupa at 2 days of development. In blue, the enzyme of interest revealed by In situ expressing in the photoreceptors, in green the nuclei of neurons revealed by immunohistochemistry, and in red a DAPI marking the nuclei. The enzyme of interest will be expressed up to 3 days of pupal development and then disappear completely at the adult stage. Nevertheless, its early expression is essential for the maintenance of rhodopsin 5 in the adult fly in the dark.



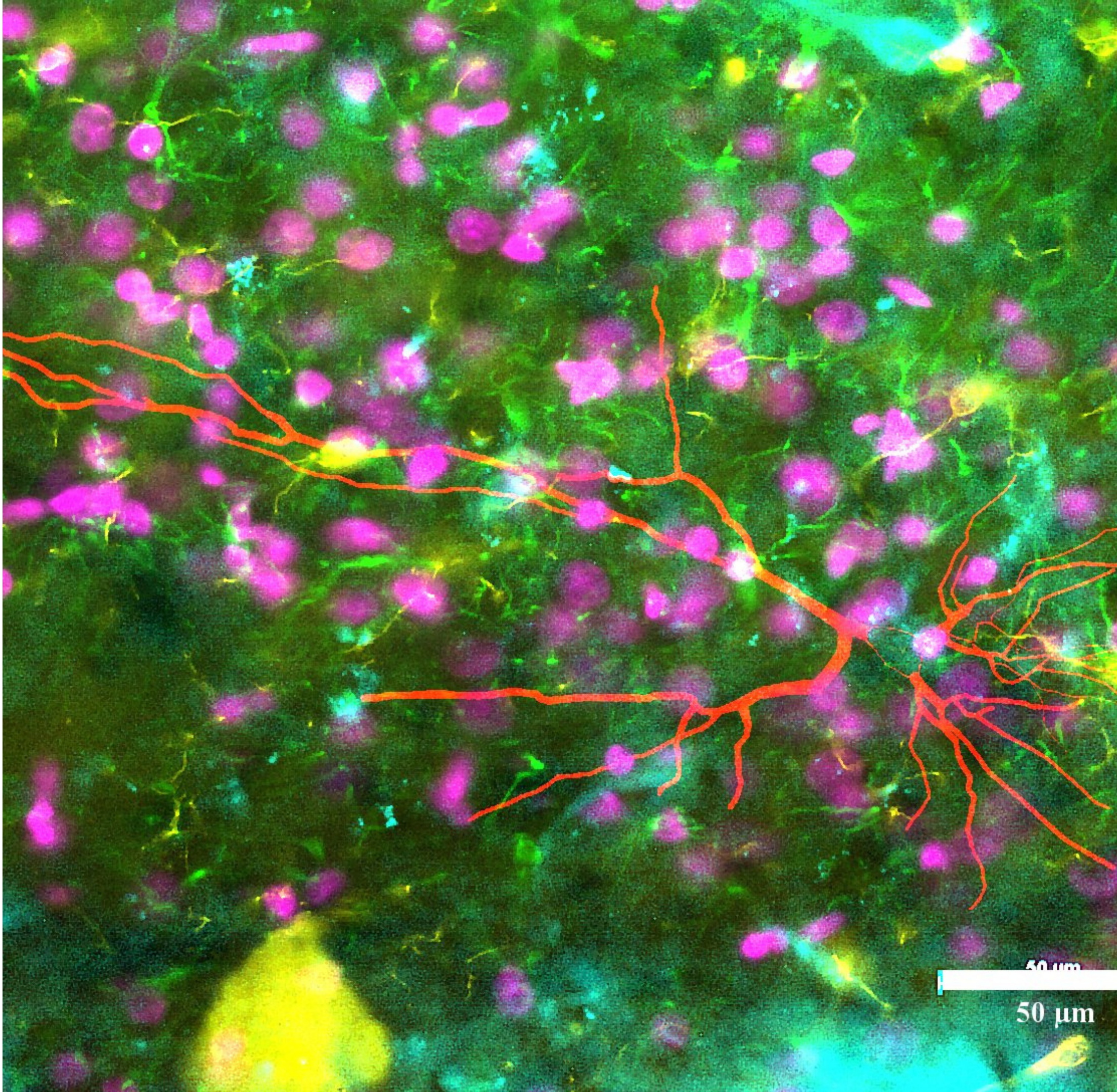
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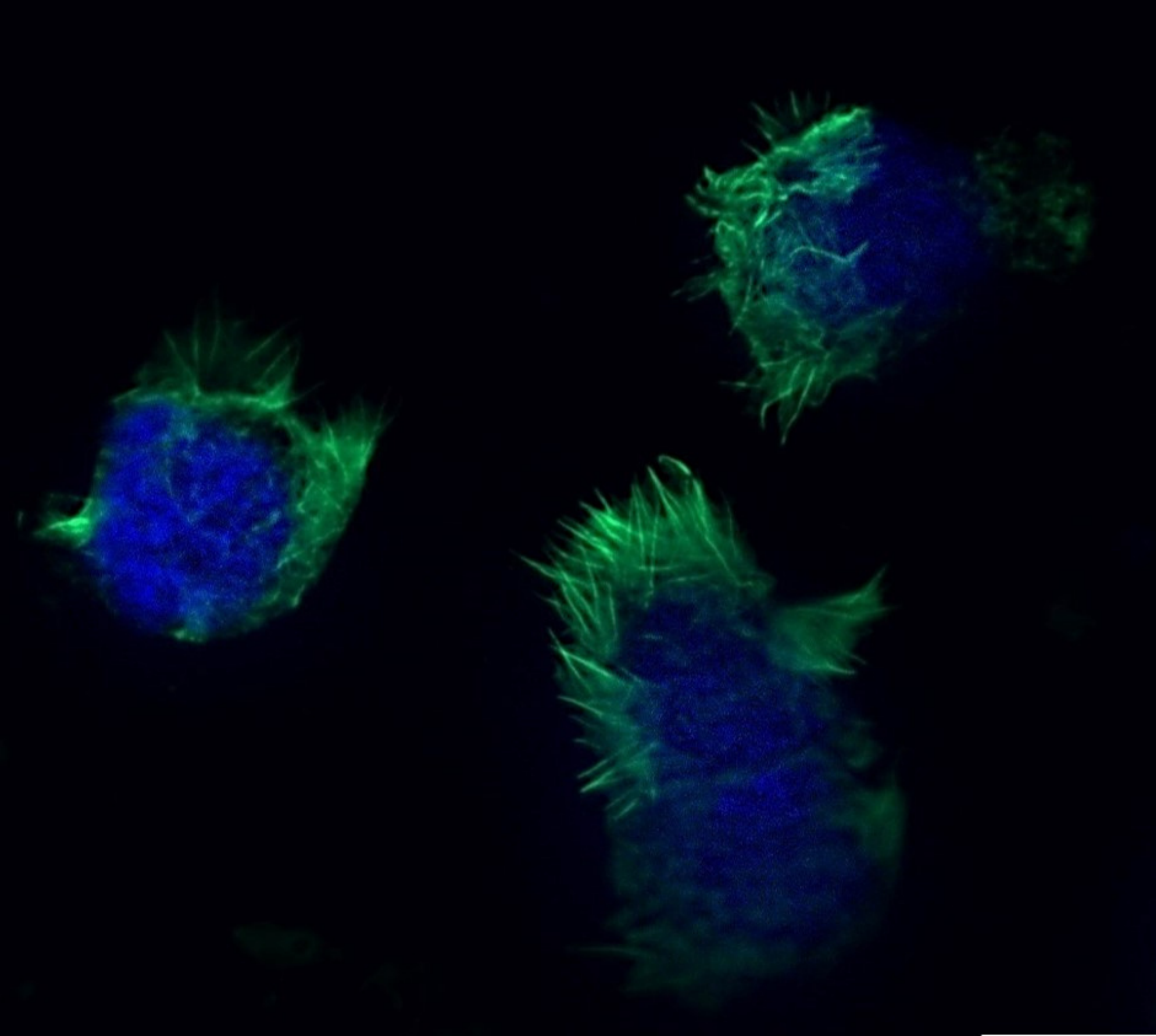
OCTOBER 23

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"Neuron swimming in the pool of glia" ©A. Roy, IINS, CNRS UMR 5297, Université de Bordeaux

Floating stained 200µm thick section with anti-GFAP (green), anti-IBA-1 (yellow), anti-hp-tau (cyan) neural tracing from Golgi-Cox stained slice (red) and counterstained with DAPI (magenta). Golgi-Cox staining imaging was done in bright-field mode and neuron was traced using Neurolucida software. On the other hand all fluorescence markers were imaged using specific filters using fully motorized Nikon Eclipse Ni upright microscope equipped with motorized (driver remoted) platform, fluorescence intensilight lamp, Nikon colour camera. Imaged at 60X magnification objective at CA1 sub-field of hippocampus.





NOVEMBER 23

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"Punk cells" ©E. Burioli, IHPE, CNRS UMR 5244, Ifremer, Université de Montpellier, Université de Perpignan

Microphotograph of cancerous cells of the blue mussel transmissible neoplasia in epifluorescence. Nuclei are labelled with DAPI (blue) and the actin cytoskeleton with Phalloidine-Alexa488 (green). The scale bar correspond to 5 µm.



DECEMBER

23

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"Sepia" ©F. Fercoq, Frédéric FERCOQ, Parasites et Protistes Libres (PPL), CNRS UMR 7245, Museum National d'Histoire Naturelle

Stage 25 cuttlefish embryo (Sepia officinalis) observed under a confocal microscope. The cuttlefish was cleared and the tissue autofluorescence was captured. This image was produced in collaboration with Laure BONNAUD-PONTICELLI and Luis MOLINA from the BOREA laboratory.

