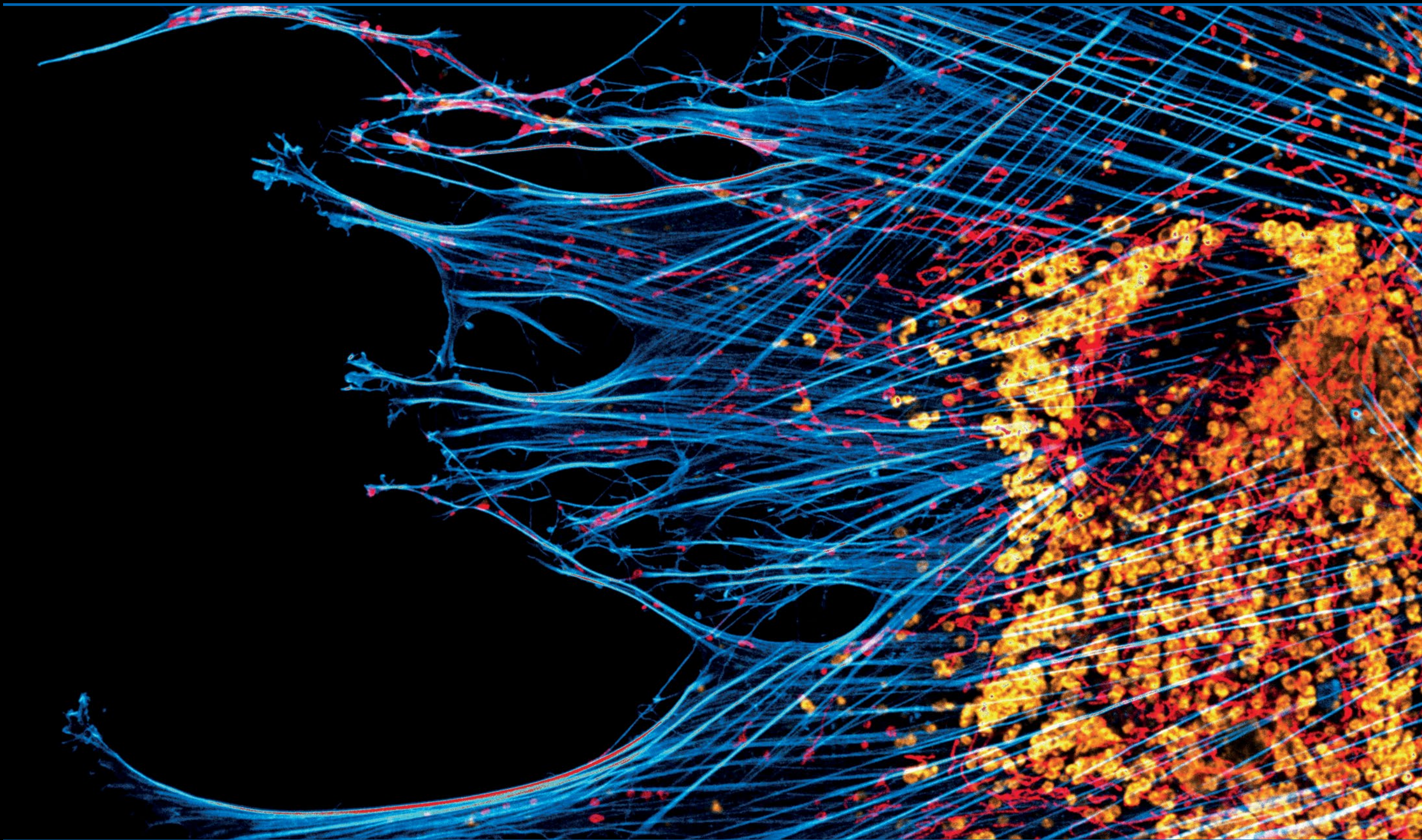




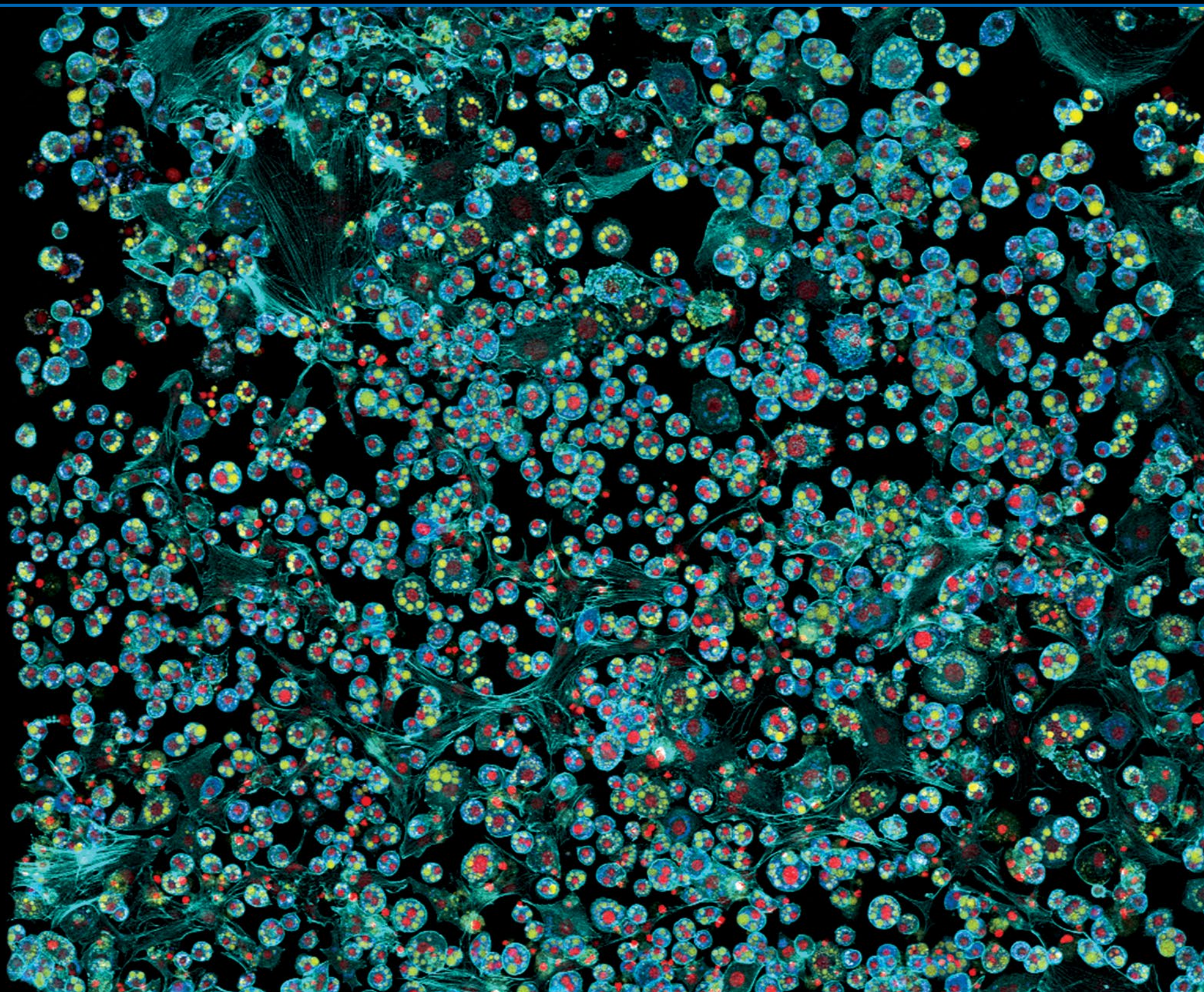
JANUARY

Lena Richter

Helmholtz-Zentrum Dresden-Rossendorf,
Germany

Differentiated 3T3-L1 adipocytes cultured in a μ -Slide 8 Well^{high}. The formed lipid droplets were stained with Perilipin-1 (blue) and LipidTOX™ (yellow). F-actin was labeled with phalloidin (cyan) and nuclei were stained using Hoechst 33258 (red). For the image acquisition, an Olympus Fluoview 1200 confocal microscope was used with a 10x magnification.

Follow Lena Richter on LinkedIn.



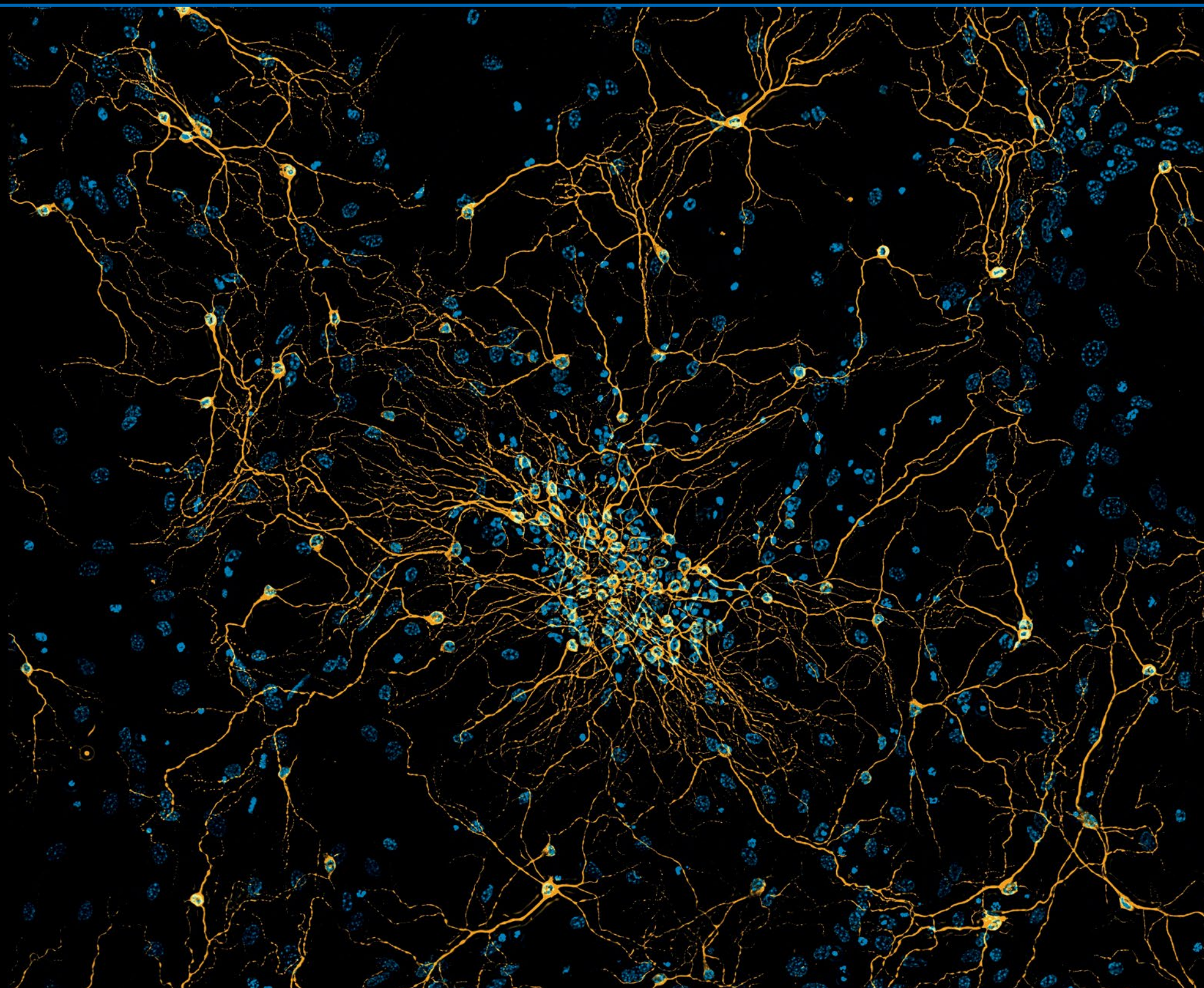
FEBRUARY

Alexandra Tsitrina

Ben Gurion University of the Negev, Beersheba,
Israel

Super-resolution image of a primary hippocampal neuronal culture acquired by structured illumination microscopy (SIM²). Microtubules (anti-tubulin, gold) outline neuronal somata and neuritic projections radiating from a central cluster, reflecting organized network architecture. Nuclei (DAPI, cyan) highlight both neuronal and glial populations. Cells were seeded in a μ -Slide 18 Well Glass Bottom and imaged on a Zeiss Elyra 7 SIM system with SIM² processing.

Follow Alexandra Tsitrina on LinkedIn
and @hell_blonkinko on Instagram.



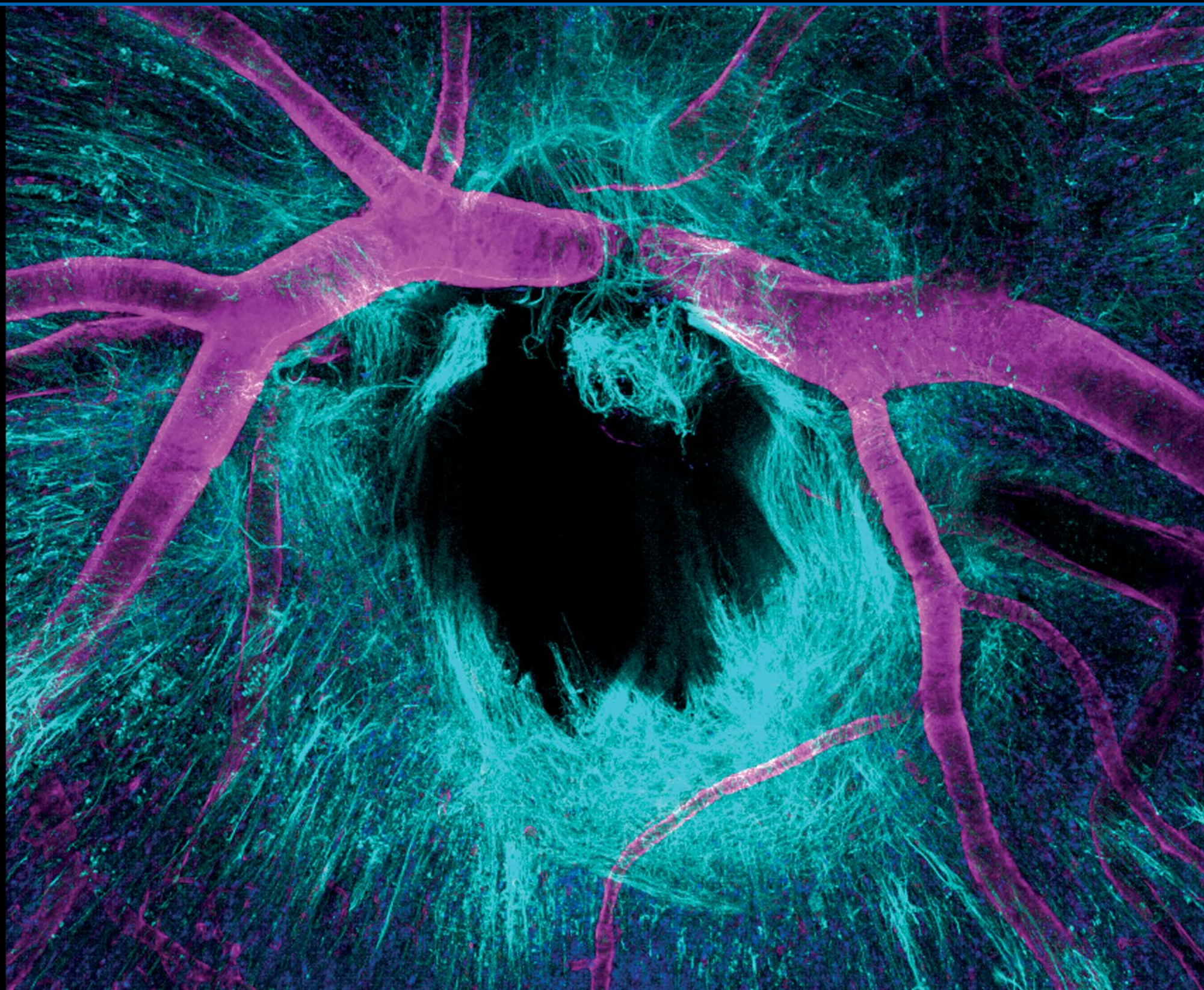
MARCH

Lorna Fowler

University College London, UK

3D-IBEX of optic nerve head (ONH) in human post-mortem globe with glaucoma. The ONH was stained for vessels (collagen IV, pink), Muller glia (vimentin, cyan), and nuclei (DAPI, blue). The image was acquired using a Leica SP8 confocal microscope with a 20x objective.

Follow Lorna Fowler on LinkedIn and @colinchulab on Instagram.



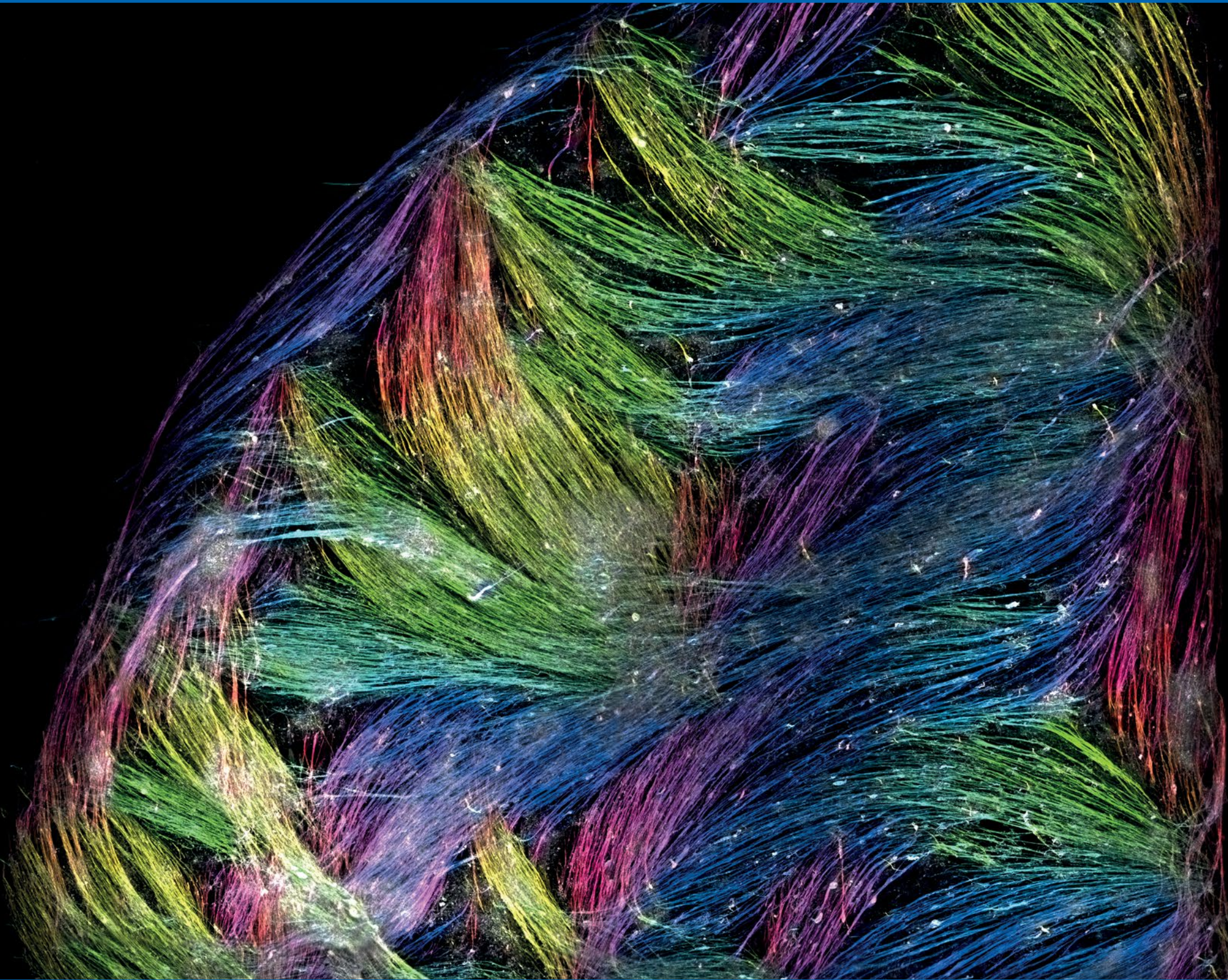
APRIL

Qiyan Mao

IBDM, Aix-Marseille University, France

Self-organized human myofiber bundles cultured using the Culture-Insert 4 Well in μ -Dish 35 mm, high at the 15th day of differentiation, fixed and stained with phalloidin, imaged with a 10x objective on a Zeiss LSM880, and pseudocolored by orientation angles with the OrientationJ plugin in ImageJ.

Follow Qiyan Mao on LinkedIn and @qianmao.bsky.social on Bluesky.



MAY

Louisa Snape

University College London, UK

The image shows a confocal micrograph of neuro-muscular junctions within mouse lumbrical muscles. The network of motor neurons innervating the muscle is visualized with labelling of microtubules (β -III-tubulin, green) and myelinated Schwann cells (S100 β , blue). Post-synaptic terminals are stained with α -bungarotoxin (nAChRs, pink). A Zeiss LSM 980 microscope with a 20x objective was used to create a maximum intensity projection from a 3 $\times$ 3 tiled z-stack image (32 sections, 1 μ m steps).



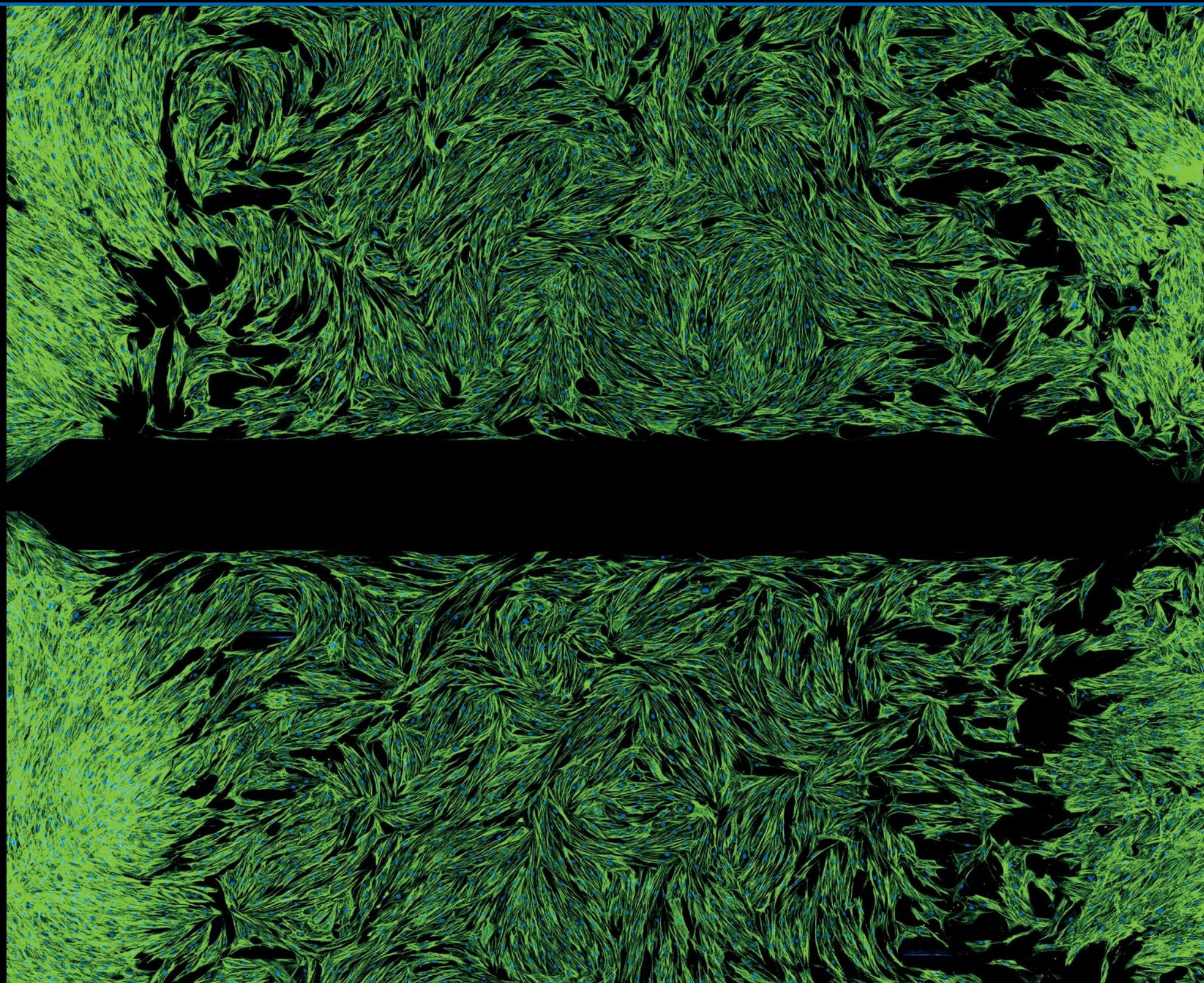
JUNE

Rozan Vroman

University of Strathclyde, Glasgow, Scotland

Two microfluidic devices containing a cultured monolayer of bone marrow mesenchymal stem cells (MSCs). Actin filaments are labelled using phalloidin (green) and the nuclei are stained with DAPI (blue). Imaging was performed on a Zeiss Axio Observer 7 microscope with a 20x objective. This is the first step in creating a lab-on-a-chip model of bone marrow for studying related diseases.

Visit wee-aye-aye.com
and follow @wee_aye_aye on Instagram.



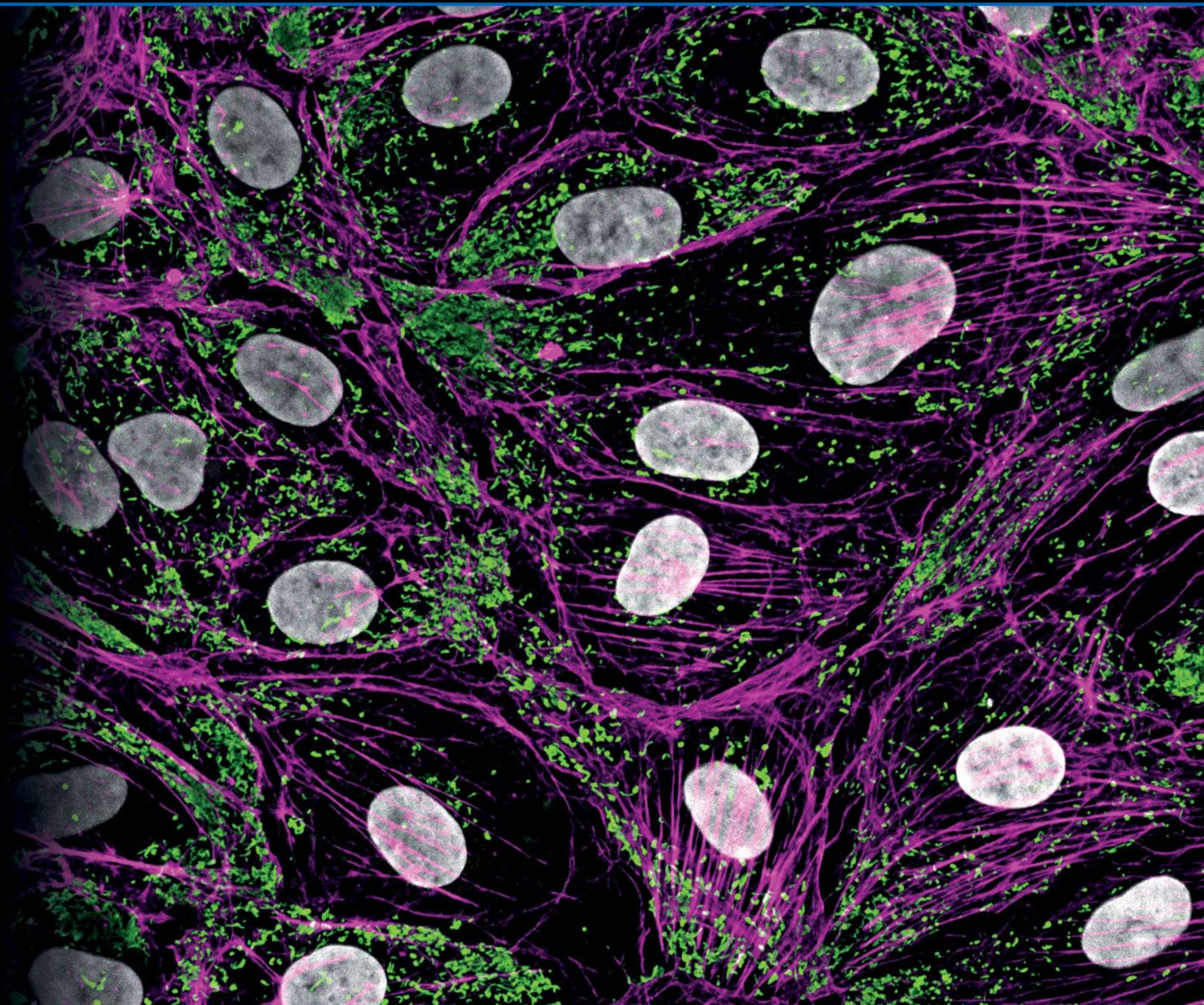
JULY

Wendy Stam

IBL, Leiden University, the Netherlands

Human umbilical vein endothelial cells (HUVEC) were cultured in a μ -Slide 8 Well^{high} with a gelatin coating. The cells were stained for von Willebrand factor (DAKO, green), actin cytoskeleton (phalloidin, magenta) and nuclei (Hoechst, white). The image is a maximum intensity projection ($z = 2 \mu\text{m}$, step size = $0.5 \mu\text{m}$) taken with a 63x oil objective on a Leica Stellaris 5 microscope.

Follow Wendy Stam on LinkedIn
and @wennesz on Instagram.

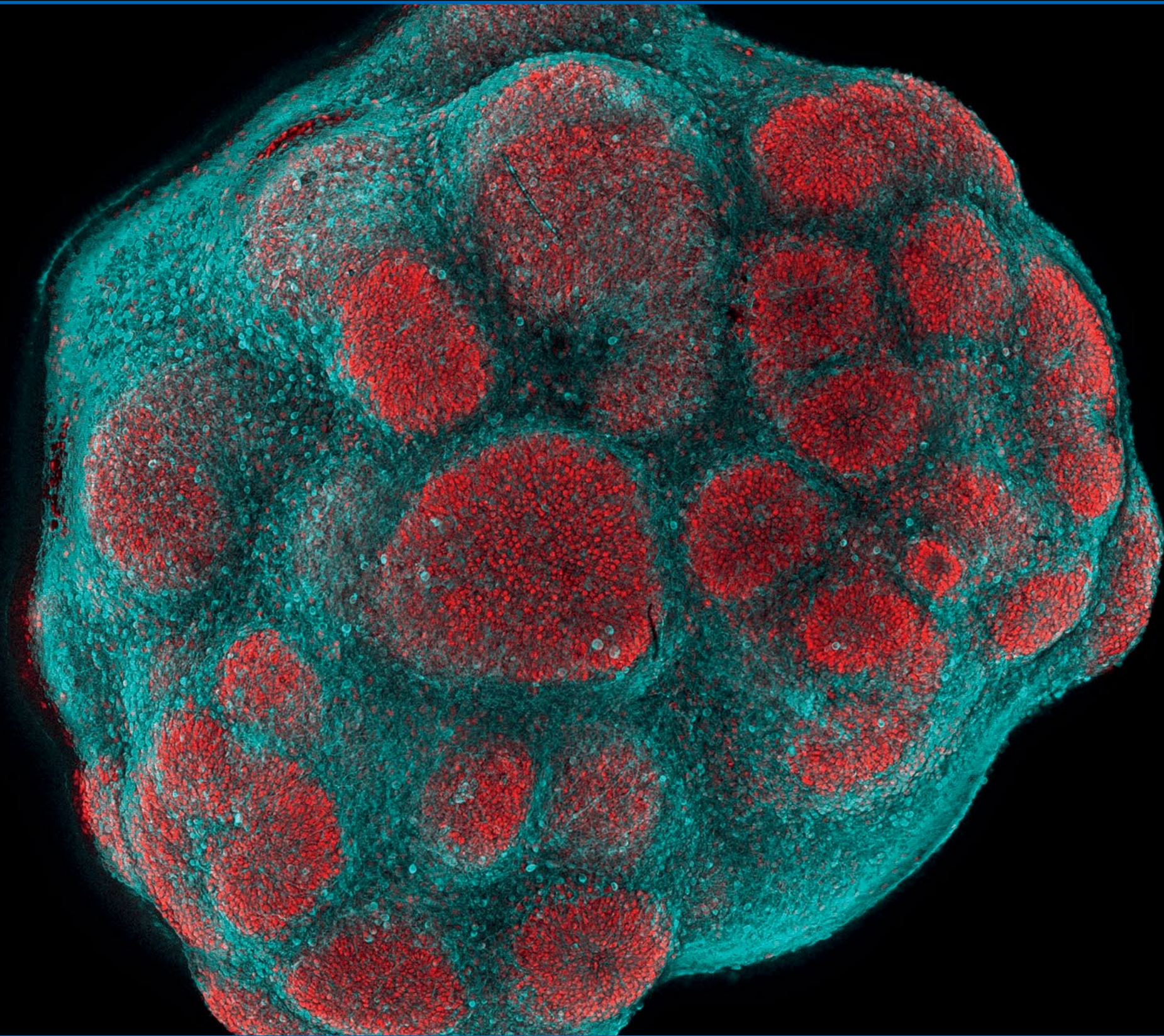


AUGUST

Stephanie Le
Heinrich Heine University, Düsseldorf, Germany

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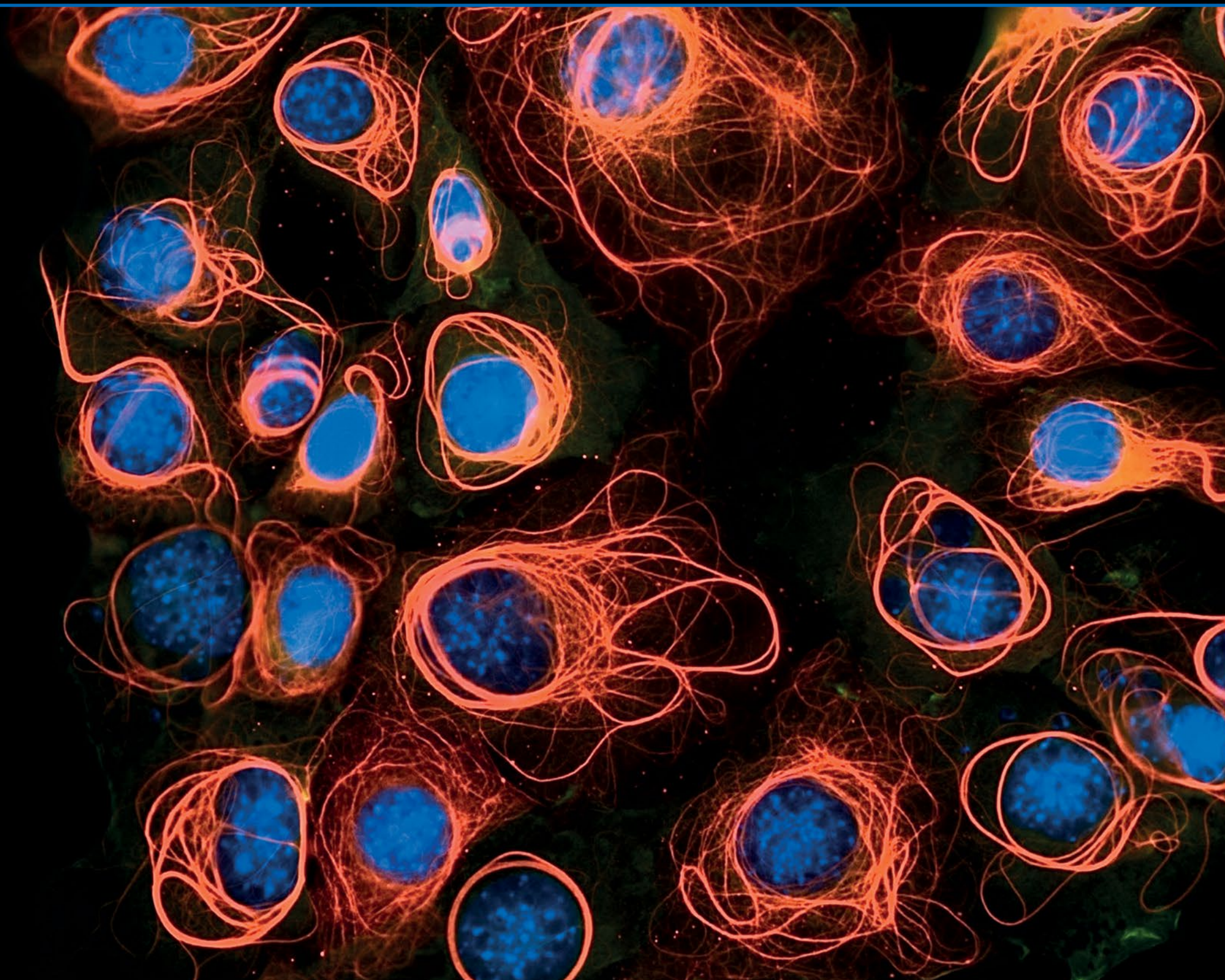
SEPTEMBER

Shansa Jayaweera

University of Notre Dame, IN, USA

Immunofluorescence image showing microtubule bundling induced in NIH3T3 cells upon over-expression of the head domain of the microtubule plus-end tracking protein CLIP-170. Cells were fixed with paraformaldehyde (PFA) and stained for microtubules (TUB-1A2, red), CLIP-170 (green), and nuclei (DAPI, blue). Imaging was performed on a Nikon Eclipse Ti2-E inverted widefield microscope using a 60x oil immersion objective.

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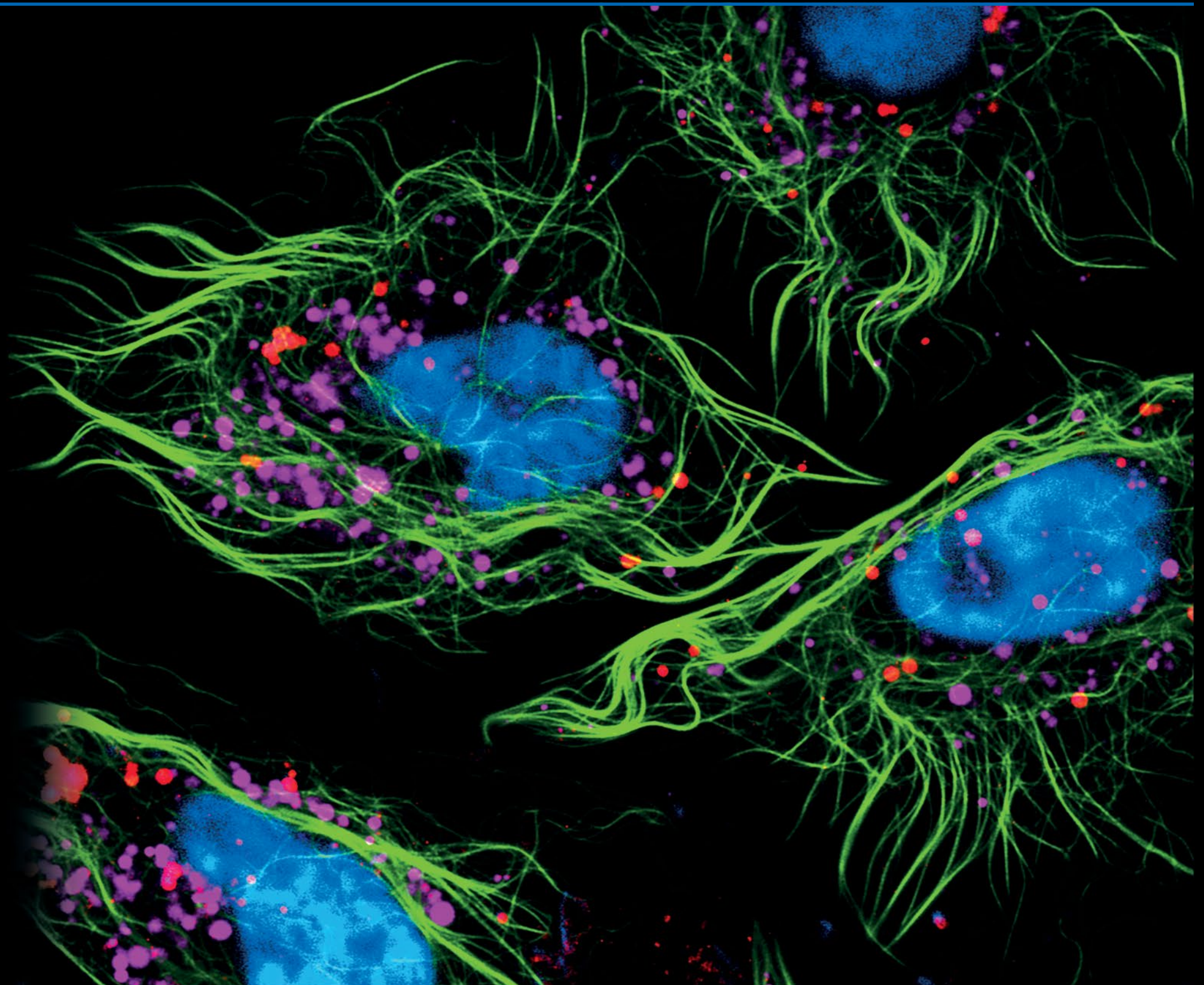
OCTOBER

Monika Kamińska

University of Zurich, Switzerland

Human kidney-2 (HK-2) cells were treated with hydroxychloroquine, showing enlarged lysosomes (SiR-lysosome, magenta), altered microtubules (SPY555-tubulin, green), and a few lipid droplets (BODIPY 493/503, red). Nuclei were counterstained with Hoechst (blue). This highlights lysosomal stress and cytoskeletal changes. Cells were cultured in a μ -Slide 8Well Glass Bottom and imaged with a Zeiss LSM 980 Airyscan confocal microscope using a 63x objective.

Follow Monika Anna Kamińska on LinkedIn.



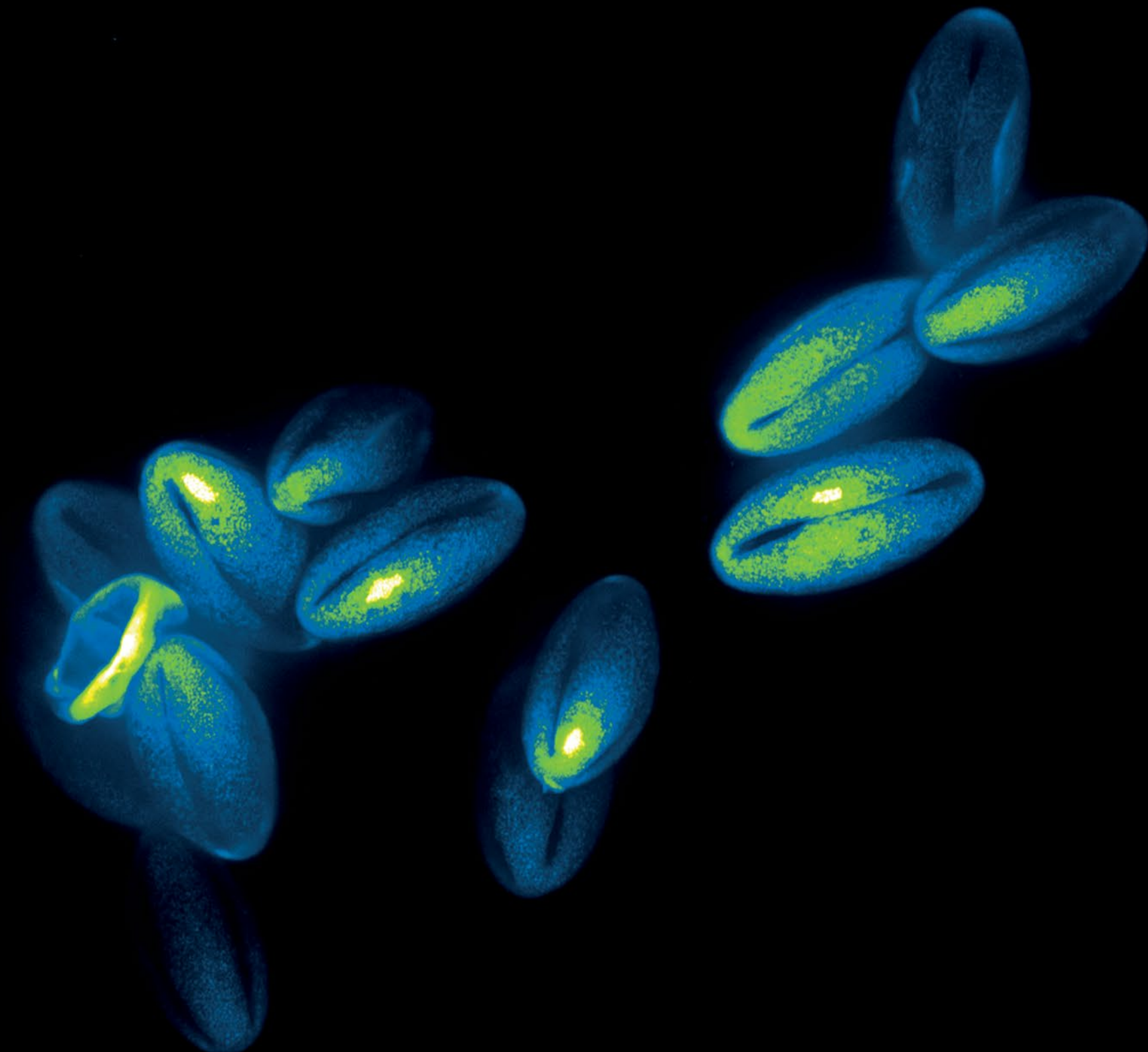
NOVEMBER

Nan Hou

The Chinese University of Hong Kong, Hong Kong

The image shows pollen from *Cassia surattensis*, prepared on a μ -Dish ³⁵ mm, high. The natural auto-fluorescence of the pollen was visualized without artificial staining, using 405/488 nm laser excitation. Imaging was performed on a Zeiss LSM 980 confocal microscope with a 60x oil immersion objective.

Follow @erichouan on Instagram.



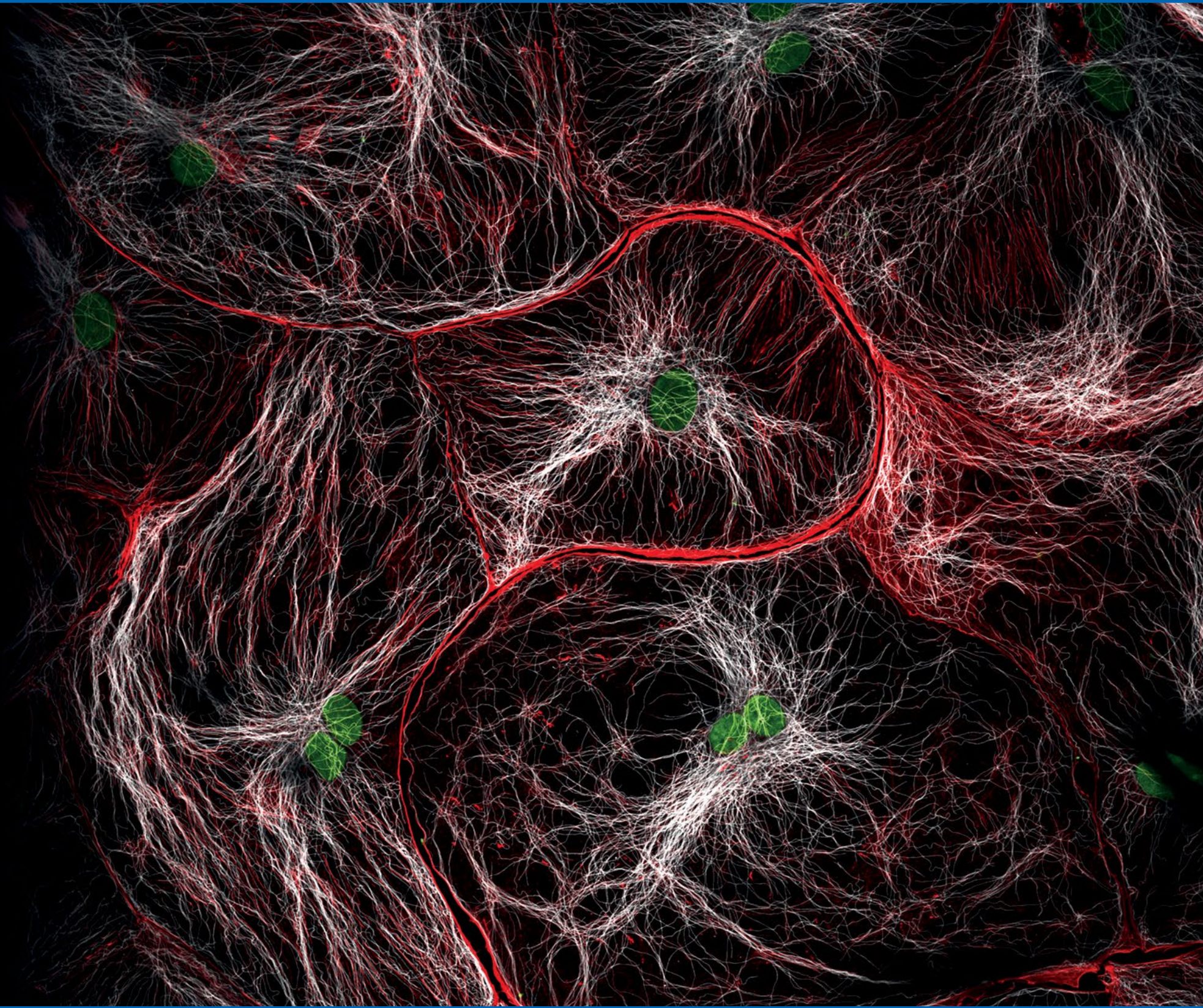
DECEMBER

Francisco Lázaro-Dié́guez

Albert Einstein College of Medicine, Bronx,
NY, USA

Dedifferentiated rat liver cells were stained to visualize microtubules (α -tubulin, white), microfilaments (β -actin, red), and nuclei (DAPI, green). The image was acquired using a Leica TCS SP5 confocal microscope with a 40x oil immersion objective.

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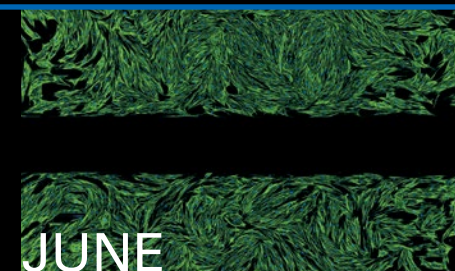


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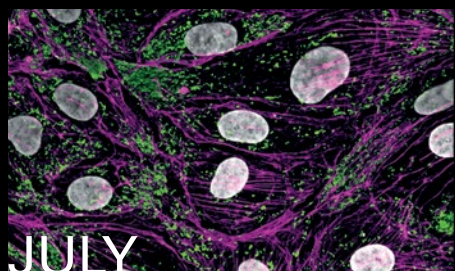


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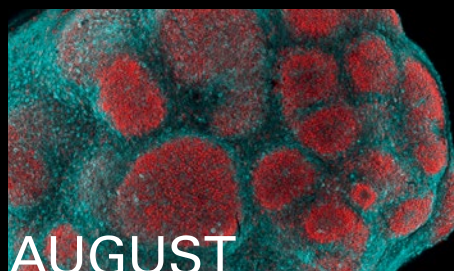


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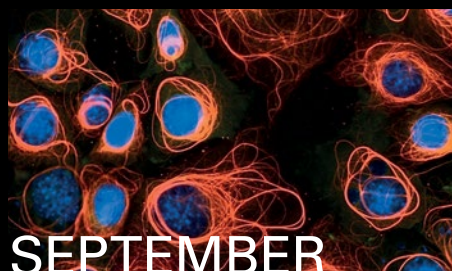


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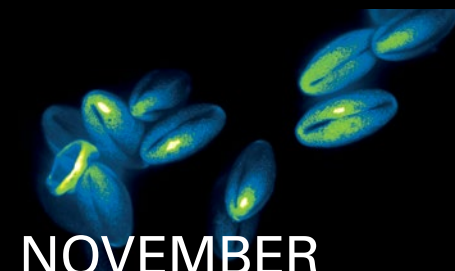


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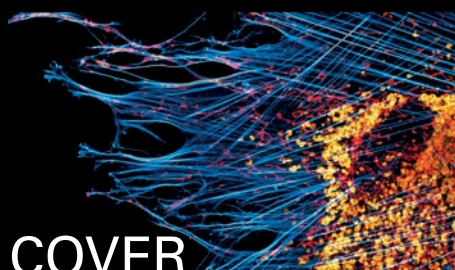


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COVER

Kamila Kozik

Okinawa Institute of Science and Technology, Japan

The image shows a human aged fibroblast displaying hallmarks of cellular senescence, including altered organelle morphology and cytoskeletal organization. Cells were imaged using a Zeiss LSM 900 confocal microscope with a 40x oil immersion objective after labeling for actin filaments (phalloidin, cyan), mitochondria (Tom20, red), and lysosomes (LAMP1, gold). Imaging was performed in a μ -Dish^{35 mm, high}.

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