

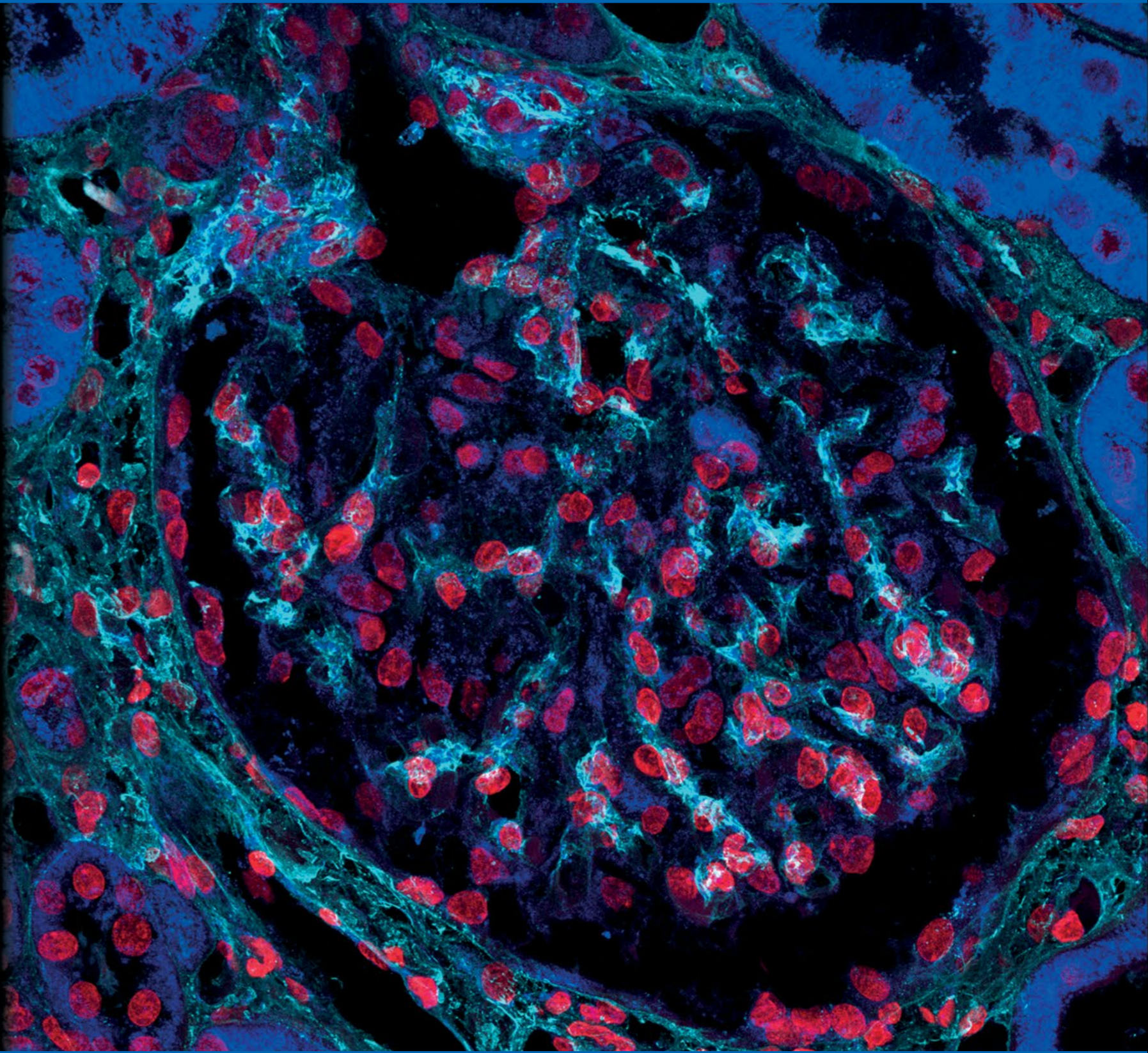
JANUARY

LINDSEY FITZSIMONS

K.L. TUCKER LABORATORY, COLLEGE OF
OSTEOPATHIC MEDICINE, UNIVERSITY OF NEW
ENGLAND, BIDDEFORD; GRADUATE SCHOOL
OF BIOMEDICAL SCIENCE & ENGINEERING,
UNIVERSITY OF MAINE, ORONO, ME, USA

Immunofluorescence of a human glomerulus stained
with primary antibodies against Fibronectin-1
(cyan) and the Sonic Hedgehog ligand (blue). Nuclei
were labeled using ibidi Mounting Medium with
DAPI (red). The image was acquired using a Leica
TCS SP5 laser scanning confocal microscope with
a 40x objective.

Follow @LAF_in_the_LAB on Instagram and Twitter.



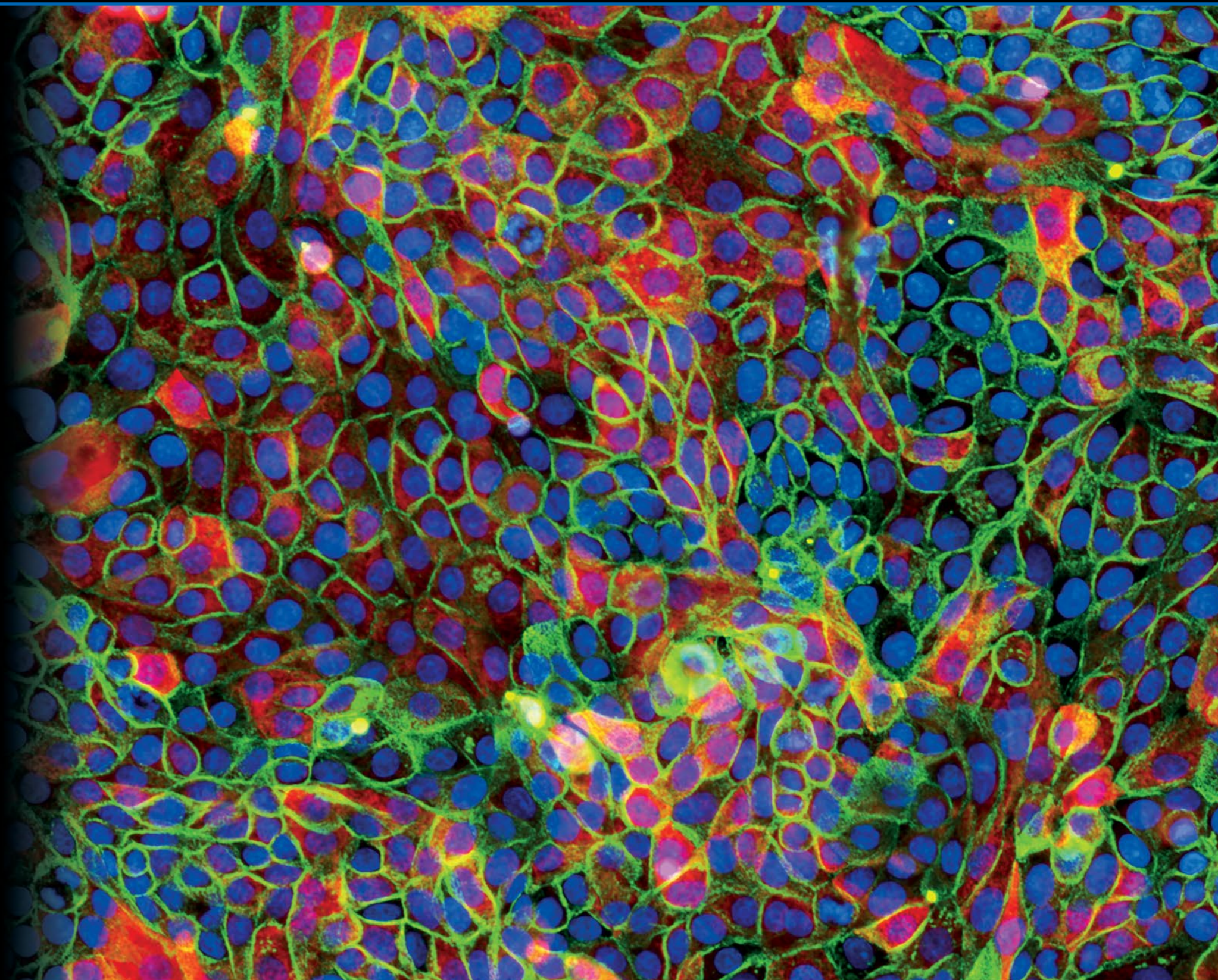
FEBRUARY

EGI KARDIA, ROBYN HALL

HEALTH AND BIOSECURITY, COMMONWEALTH
SCIENTIFIC AND INDUSTRIAL RESEARCH
ORGANISATION (CSIRO), CANBERRA, AUSTRALIA

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Follow @egiikardaa on Twitter and Instagram and @virologica on Twitter.



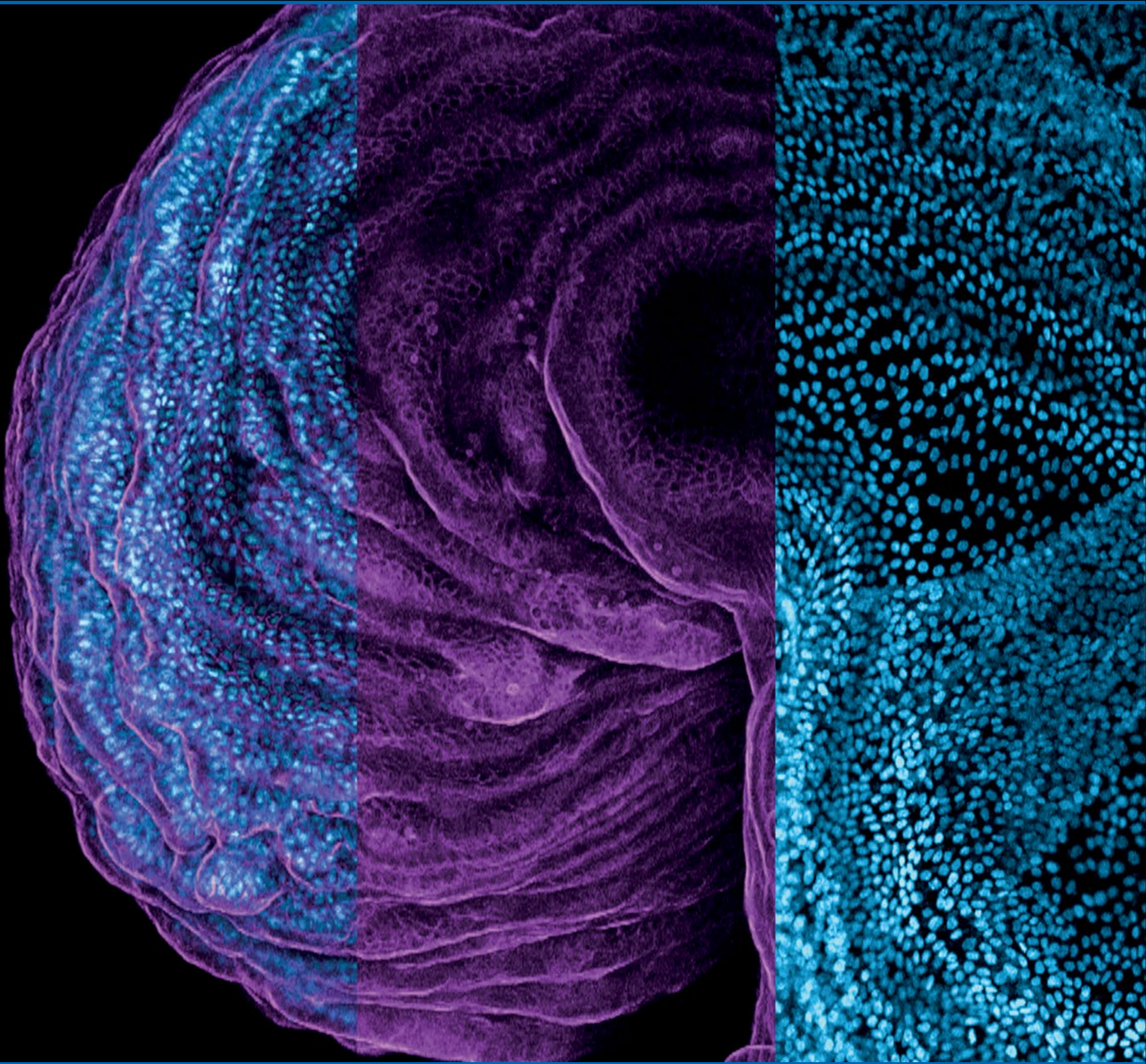
MARCH

VERONIKA BOSÁKOVÁ, JAN FRIČ, MARCO DE ZUANI

CELLULAR AND MOLECULAR IMMUNOREGULATION,
INTERNATIONAL CLINICAL RESEARCH CENTER,
ST. ANNE'S UNIVERSITY HOSPITAL, BRNO,
CZECH REPUBLIC

Immunofluorescent staining of human intestinal organoids in the ibidi μ -Slide 18 Well Glass Bottom. The organoids are derived from induced pluripotent stem cells and illustrate the beauty of their well-organized structures. Composition of two images showing cell nuclei (blue, DAPI) and F-actin (magenta, phalloidin). The picture was acquired using a Zeiss LSM 780 confocal microscope with a 10x objective.

Follow @FricLab and @VeronikaBosak on Twitter.

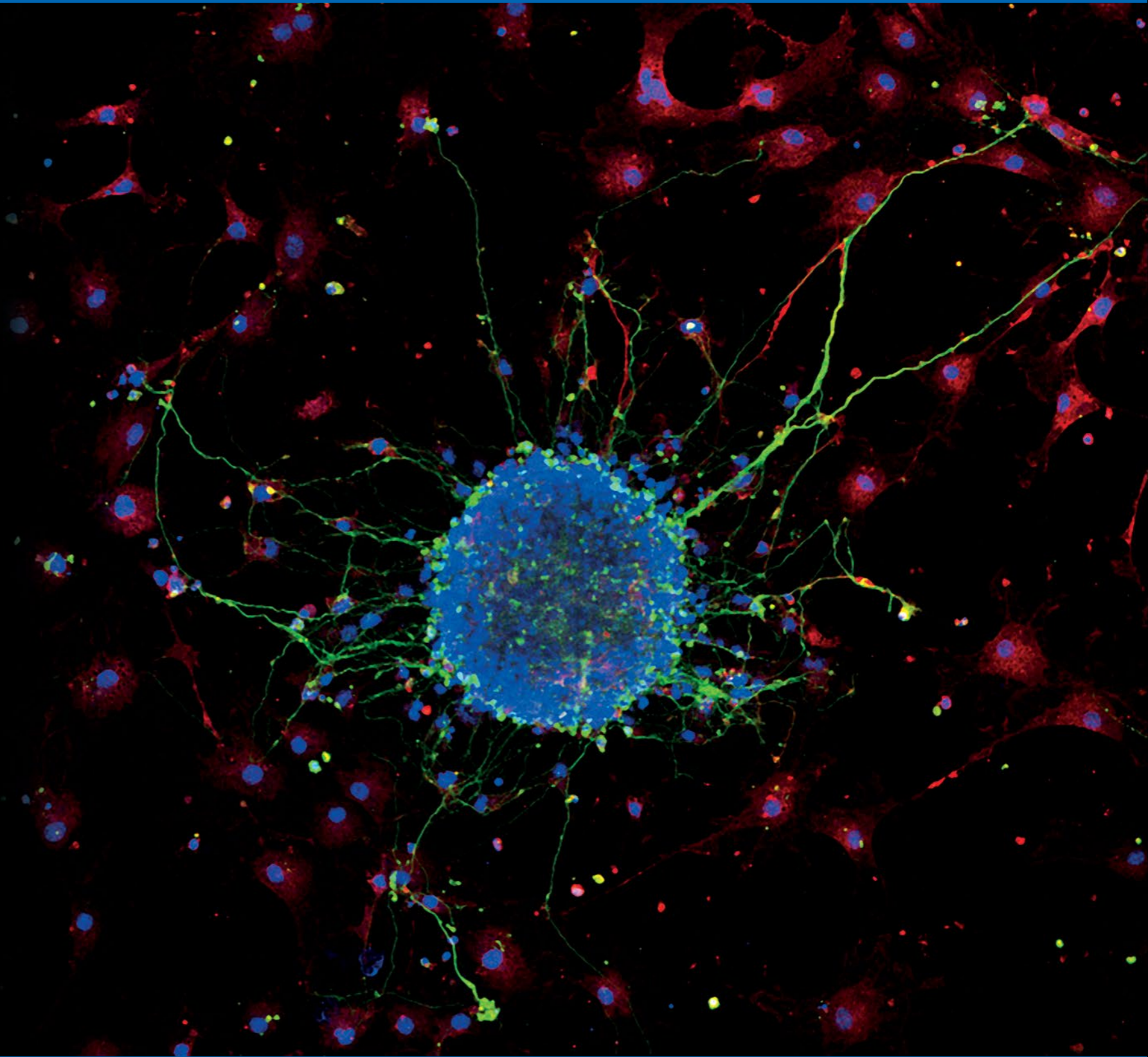


APRIL

LINA PAPADIMITRIOU, ANTHI RANELLA

TERMIM LAB, INSTITUTE OF ELECTRONIC
STRUCTURE AND LASER, FORTH, CRETE, GREECE

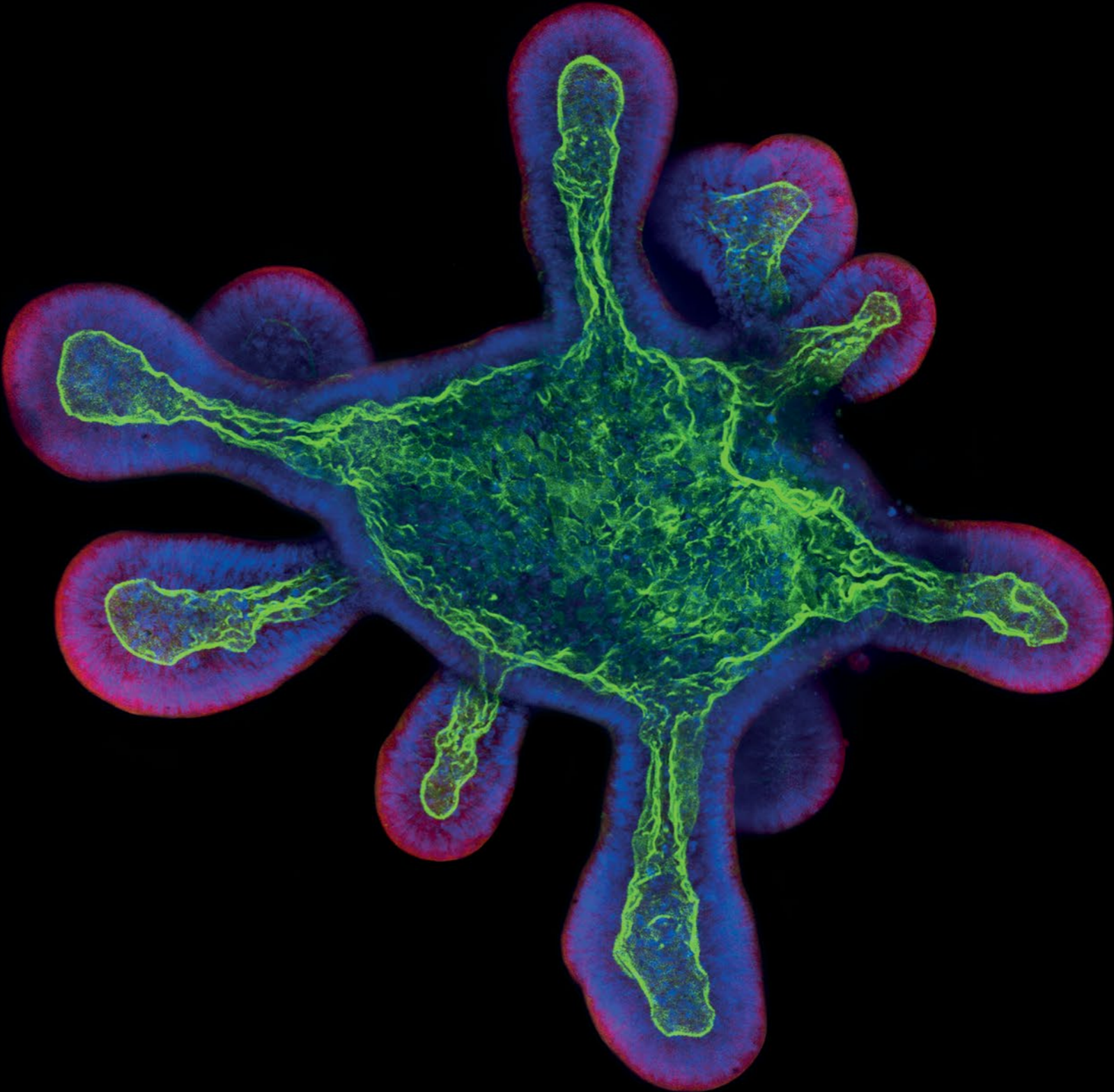
Neurosphere formation after retinoic acid-induced differentiation of murine neural stem cells (NE-4C) on poly-L-lysine-coated glass. Neurons were stained with Tuj1 (green), astrocytes with GFAP (red) and nuclei with DAPI (blue). The image was acquired with a 20x objective on a Leica SP8 confocal microscope.



MAY

FELIX SCHARTE
DEPARTMENT OF MICROBIOLOGY,
UNIVERSITY OF OSNABRÜCK, GERMANY

3D murine ileum organoid cultured in an ibidi μ -Slide 8 Well coated with Matrigel®. Phalloidin (green) was used to stain F-actin to visualize the orientation of polarized epithelial cells. Nuclei were labeled with DAPI (blue) and the plasma membrane was stained with CellMask (red). The cells were imaged with a Zeiss Cell Observer spinning disc confocal microscope using a 40x objective.
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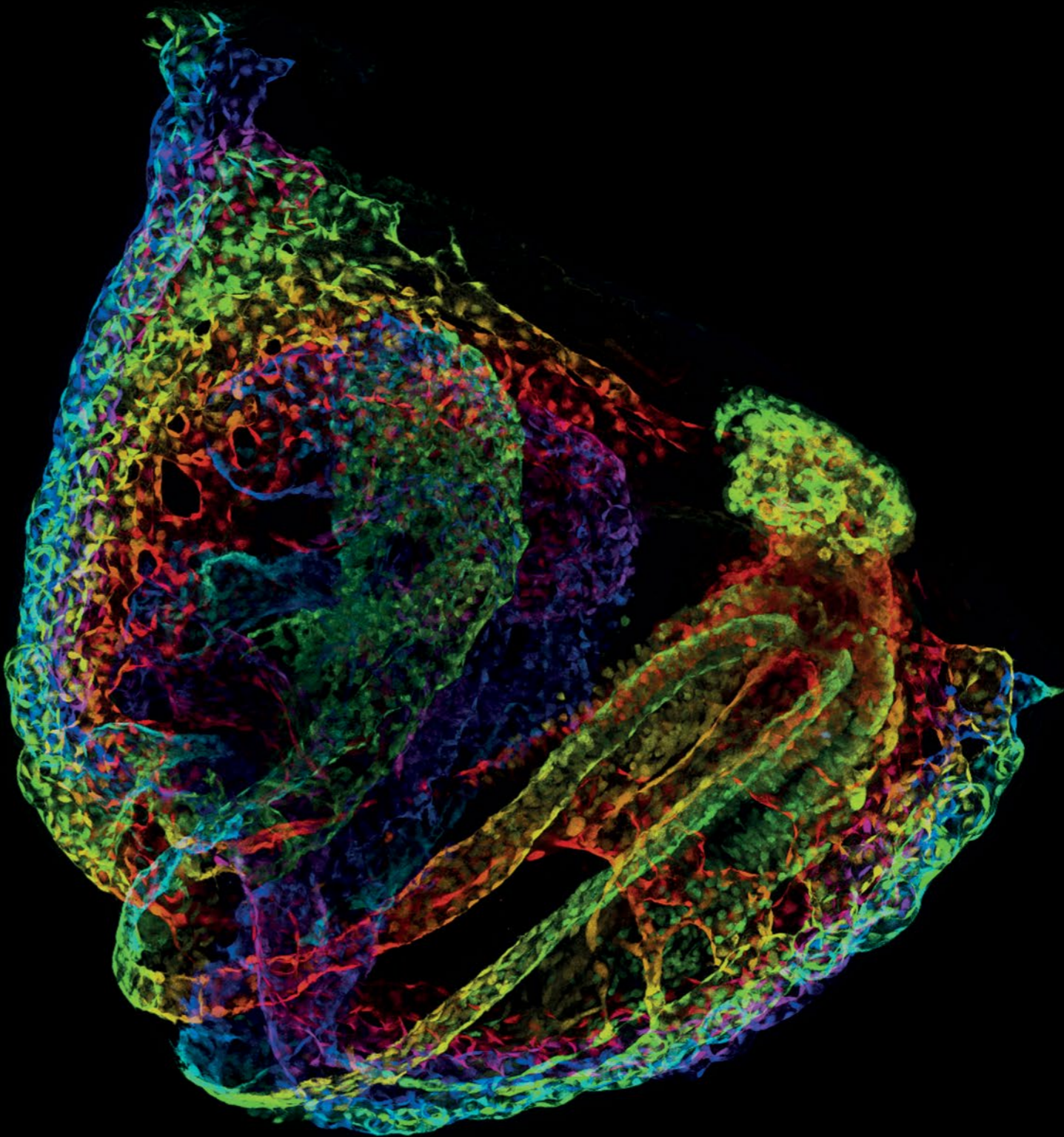
JUNE

ANAHÍ BINAGUI-CASAS

EARLY EMBRYO DEVELOPMENT GROUP,
INSTITUTE FOR STEM CELL RESEARCH,
CENTRE FOR REGENERATIVE MEDICINE,
UNIVERSITY OF EDINBURGH, UNITED KINGDOM

3D whole-mount of a day 8.5 mouse embryo in an ibidi μ -Slide 8 Well Glass Bottom, showing the complex and perfectly organized network of interconnected vessels that will, together with the heart, keep the embryo alive and growing. The vasculature network is depicted using a fluorescent reporter for the endothelium and a rainbow coloring has been applied for tissue depth. This image was taken on a Leica SP8 confocal microscope.

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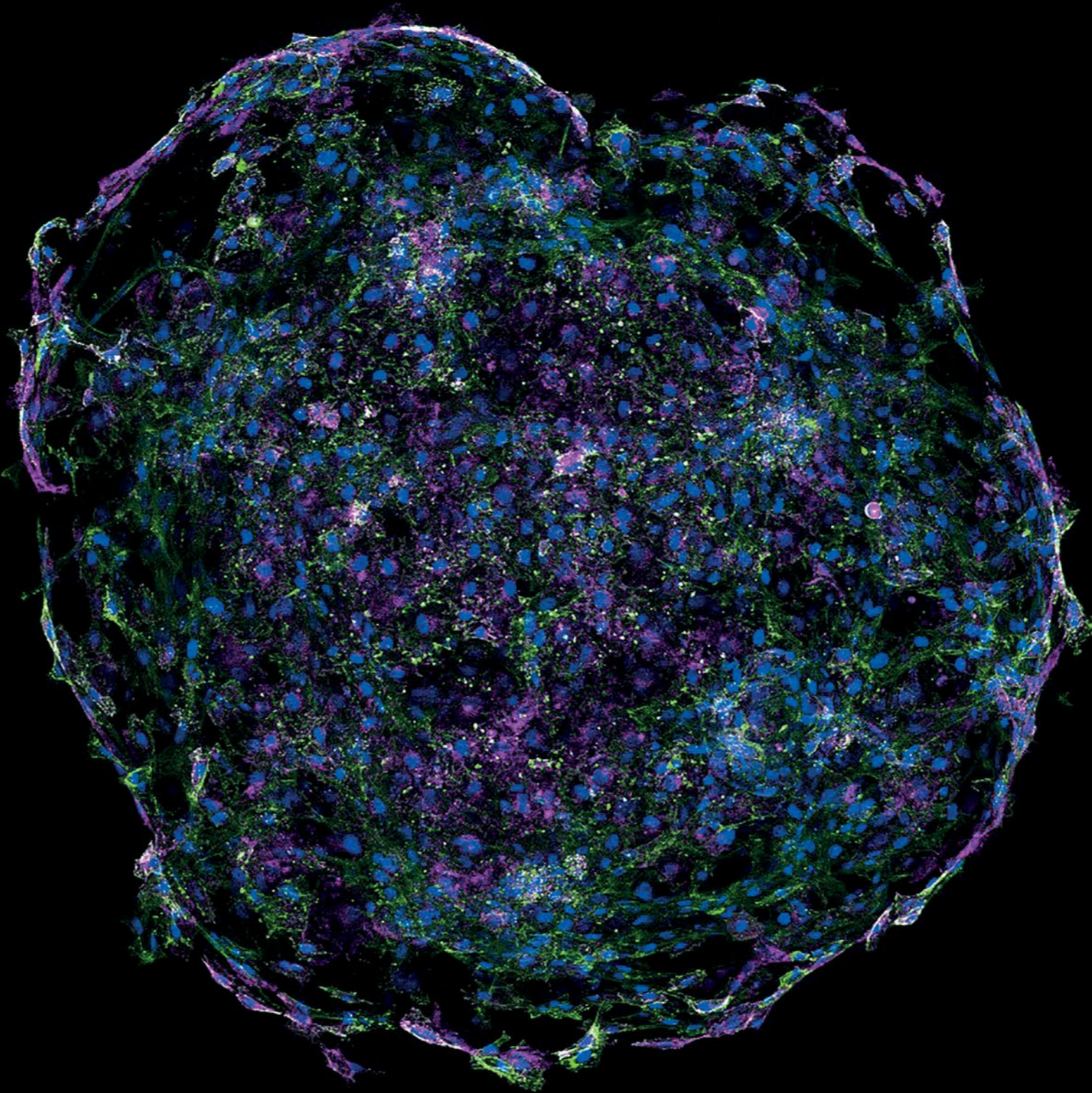
JULY

TISH ESSEBIER

INSTITUTE FOR MOLECULAR BIOSCIENCE,
THE UNIVERSITY OF QUEENSLAND, BRISBANE,
AUSTRALIA

Bead sprouting assay shows irregular blood vessel formation of human umbilic venous endothelial cells (HUVECs). Cells were transduced with an mScarlet-tagged lentiviral plasmid (magenta), embedded into a fibrin gel in an ibidi μ -Plate 24 Well, and co-cultured with lung fibroblasts for 7 days. The actin cytoskeleton was stained with phalloidin (green) and nuclei were stained with DAPI (blue). The image was taken using a Zeiss LSM 710 Meta confocal scanner with a 10x objective.

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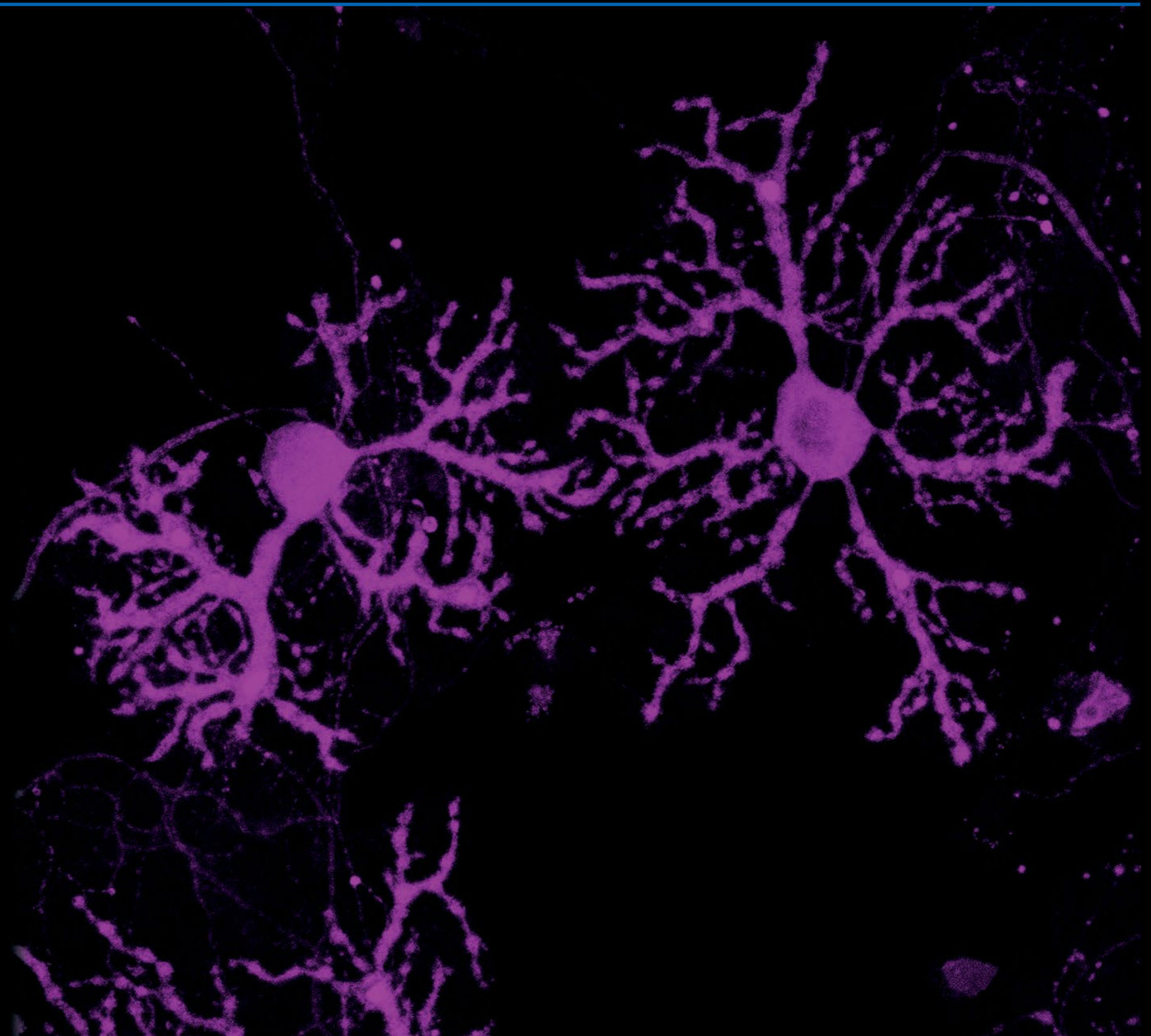


AUGUST

MASAHIKO TANAKA, ATSUSHI NAKANO

GRADUATE SCHOOL OF PHARMACEUTICAL
SCIENCES, NAGOYA CITY UNIVERSITY, JAPAN

Fluorescence microscopy image of murine cerebellar
Purkinje neurons cultured in an ibidi μ -Dish^{35 mm, low}
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receptor (magenta) and imaged using a Zeiss LSM800
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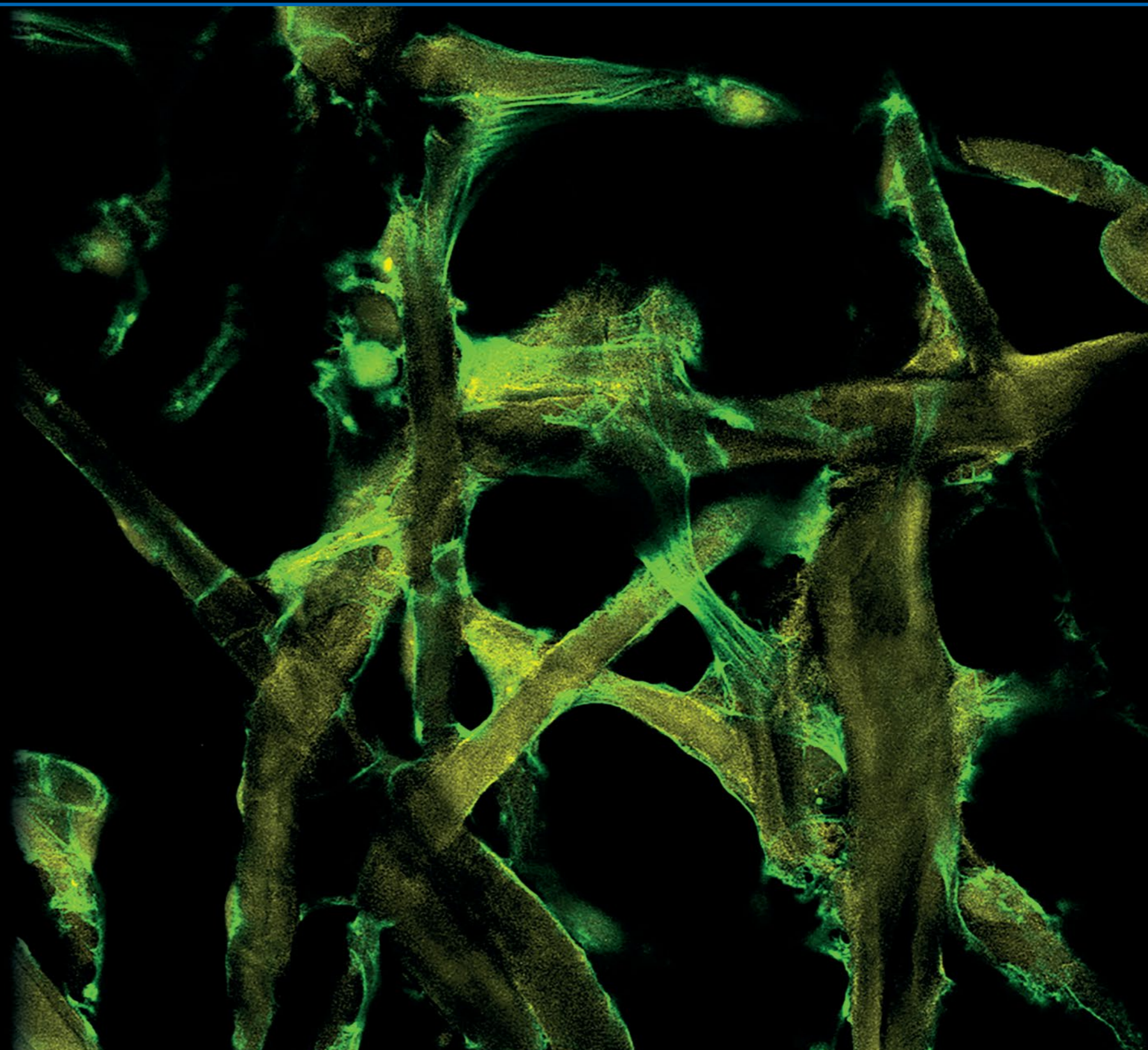


SEPTEMBER

JOHANNA WODTKE

DEPARTMENT OF RADIOPHARMACEUTICAL
AND CHEMICAL BIOLOGY, INSTITUTE OF
RADIOPHARMACEUTICAL CANCER RESEARCH,
HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF,
GERMANY

Fluorescence microscopy of human dermal micro-vascular endothelial cells (HDMEC) cultivated on a peptide-covered biomaterial. Cellular F-actin was labeled with phalloidin (green). The autofluorescence of the biomaterial is displayed in yellow. The confocal image was acquired on an Olympus Fluoview 1200 microscope with a 60x oil objective.



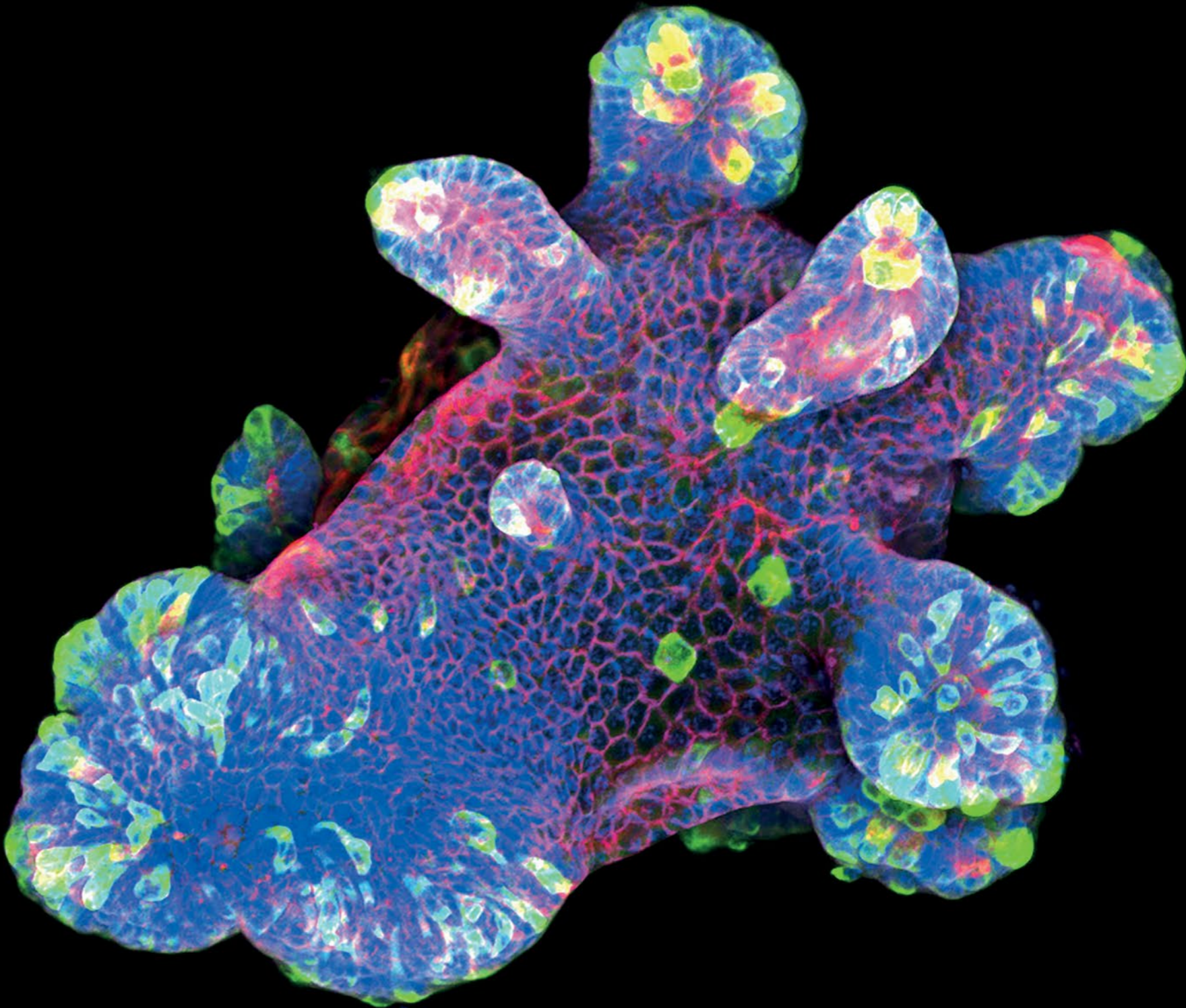
OCTOBER

NAVEEN PARMAR

CENTRE OF MOLECULAR INFLAMMATION RESEARCH (CEMIR), DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE (IKOM), NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU), TRONDHEIM, NORWAY

3D culture of an IL-22-treated mouse small intestine organoid grown in Matrigel® drops using an ibidi µ-Slide 8 Well. The organoid was stained for the antimicrobial protein RELMβ (green), the secretory cell marker Ulex Europaeus Agglutinin I (UEA I, red), β-catenin (purple), and the nuclear marker DAPI (blue). The image was acquired using a Zeiss LSM 880 confocal microscope with a 20x objective lens.

Follow @Nparmarsays on Twitter.



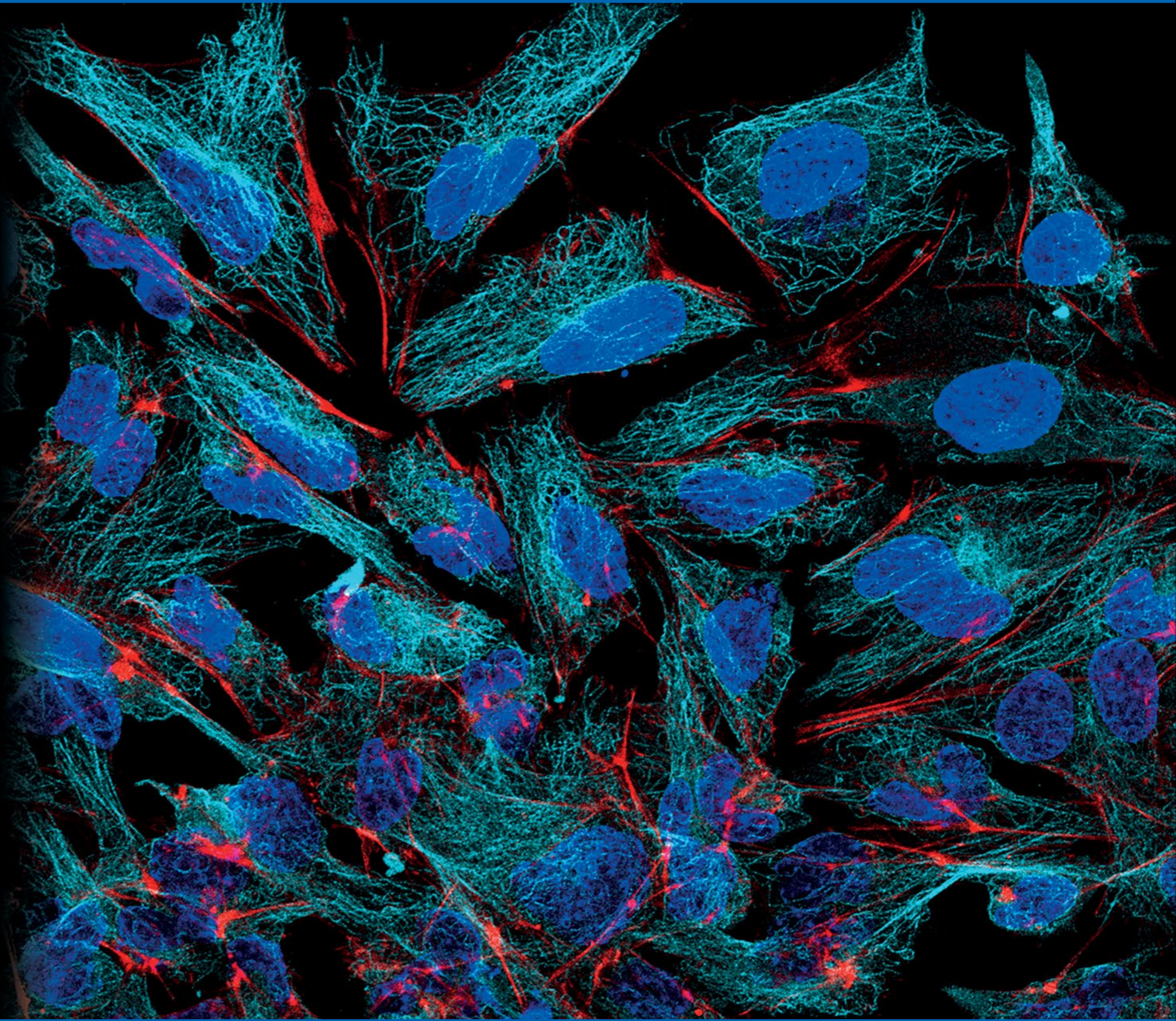
NOVEMBER

SOPHIE M. MORGANI

LEUCHT LAB, DEPARTMENT OF ORTHOPEDIC SURGERY, NYU LANGONE HEALTH, NEW YORK, NY, USA

The image shows mouse embryonic stem cells during a collective cell migration assay using the ibidi Culture-Inserts. Cells were immunostained to label microtubules (cyan), actin (red), and nuclei (blue). Cells were imaged using a Zeiss LSM880 laser scanning confocal microscope with a 40x objective.

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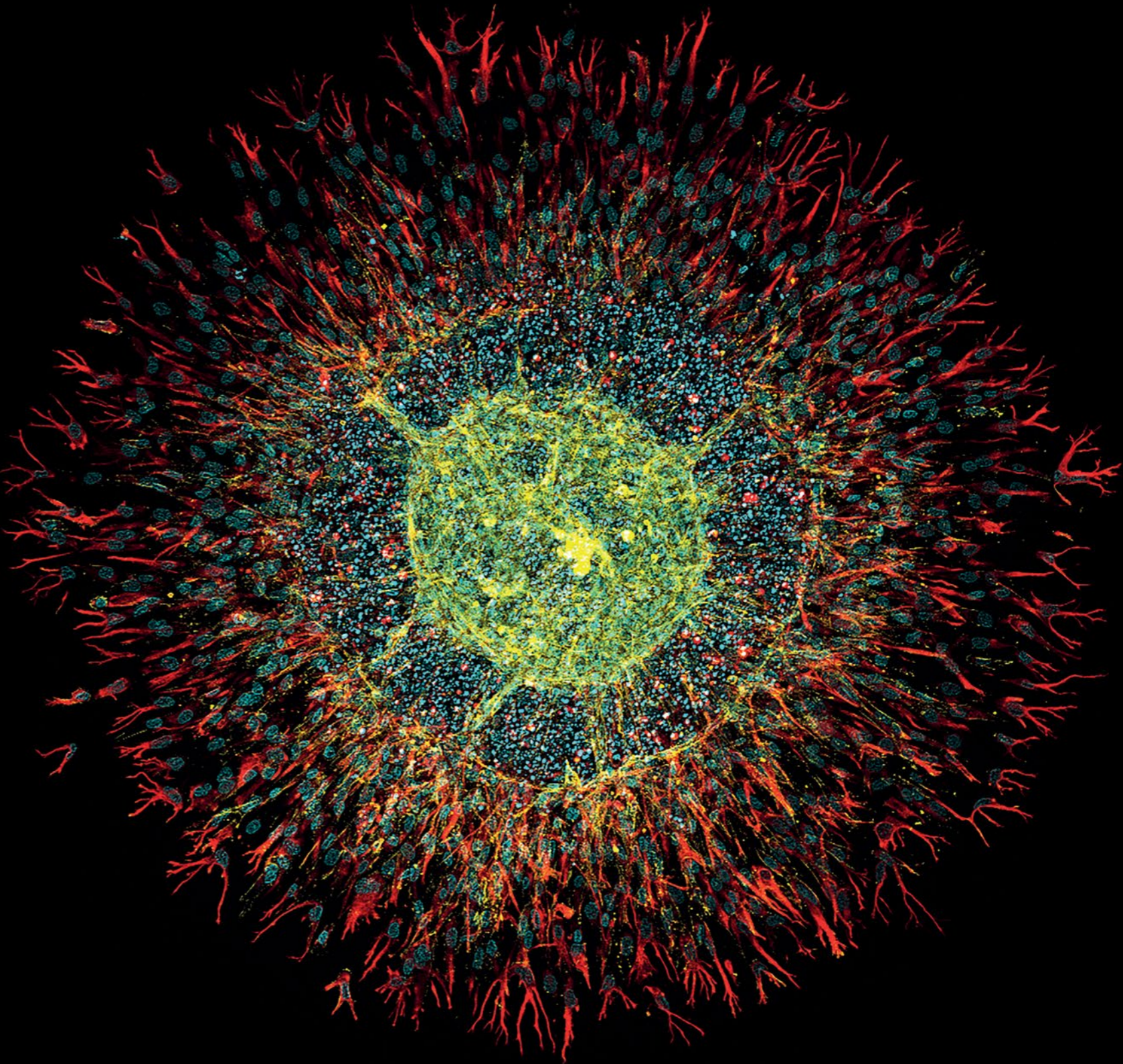
DECEMBER

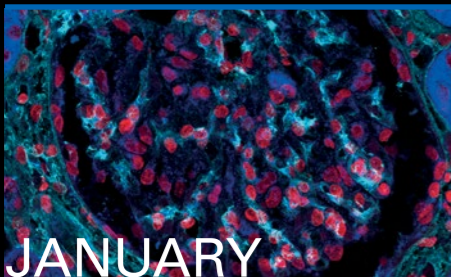
HENRIQUE NOGUEIRA PINTO

BIOENGINEERED 3D MICROENVIRONMENTS
GROUP, INSTITUTO DE INVESTIGAÇÃO E INOVAÇÃO
EM SAÚDE (I3S), UNIVERSIDADE DO PORTO,
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Endothelial cells were stained with CD31 (yellow),
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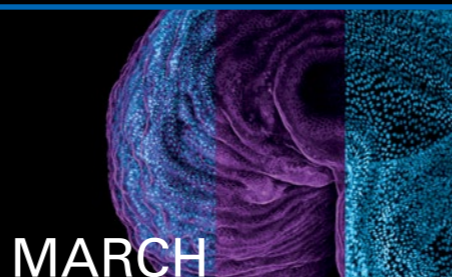
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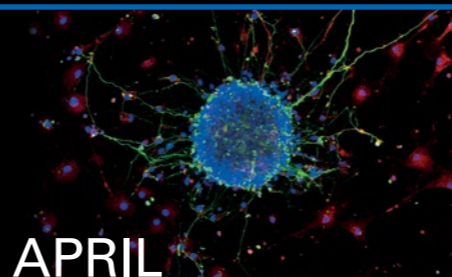
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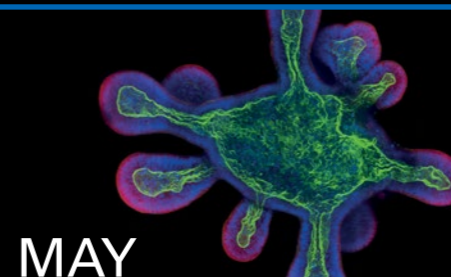


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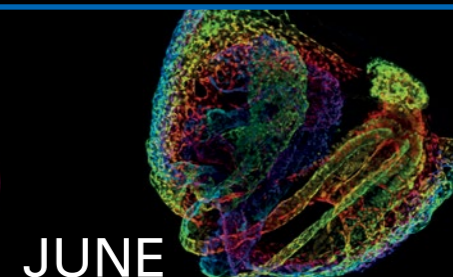
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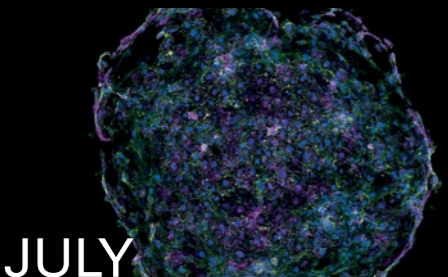
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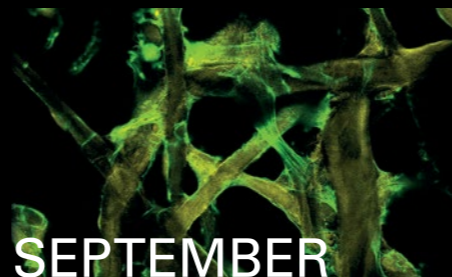


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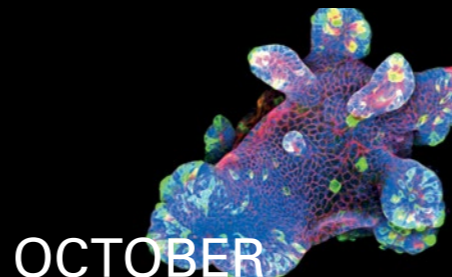


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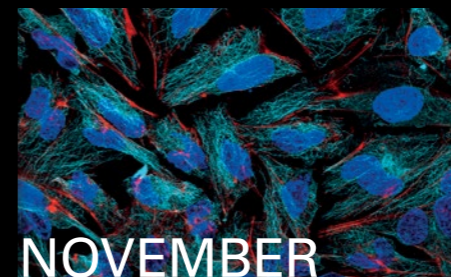
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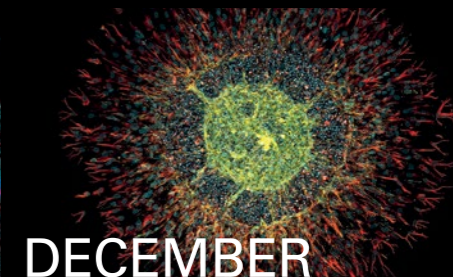
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