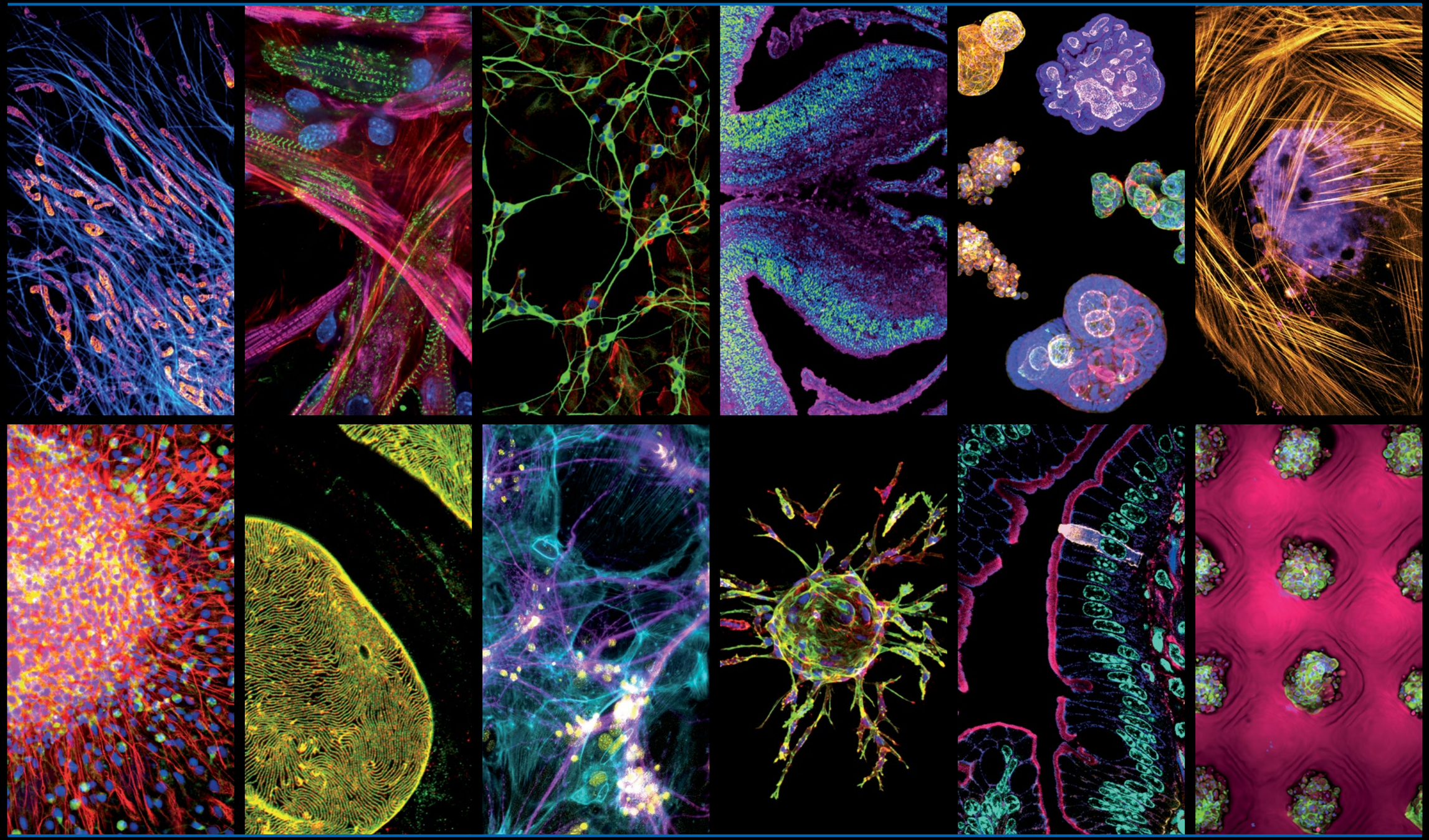
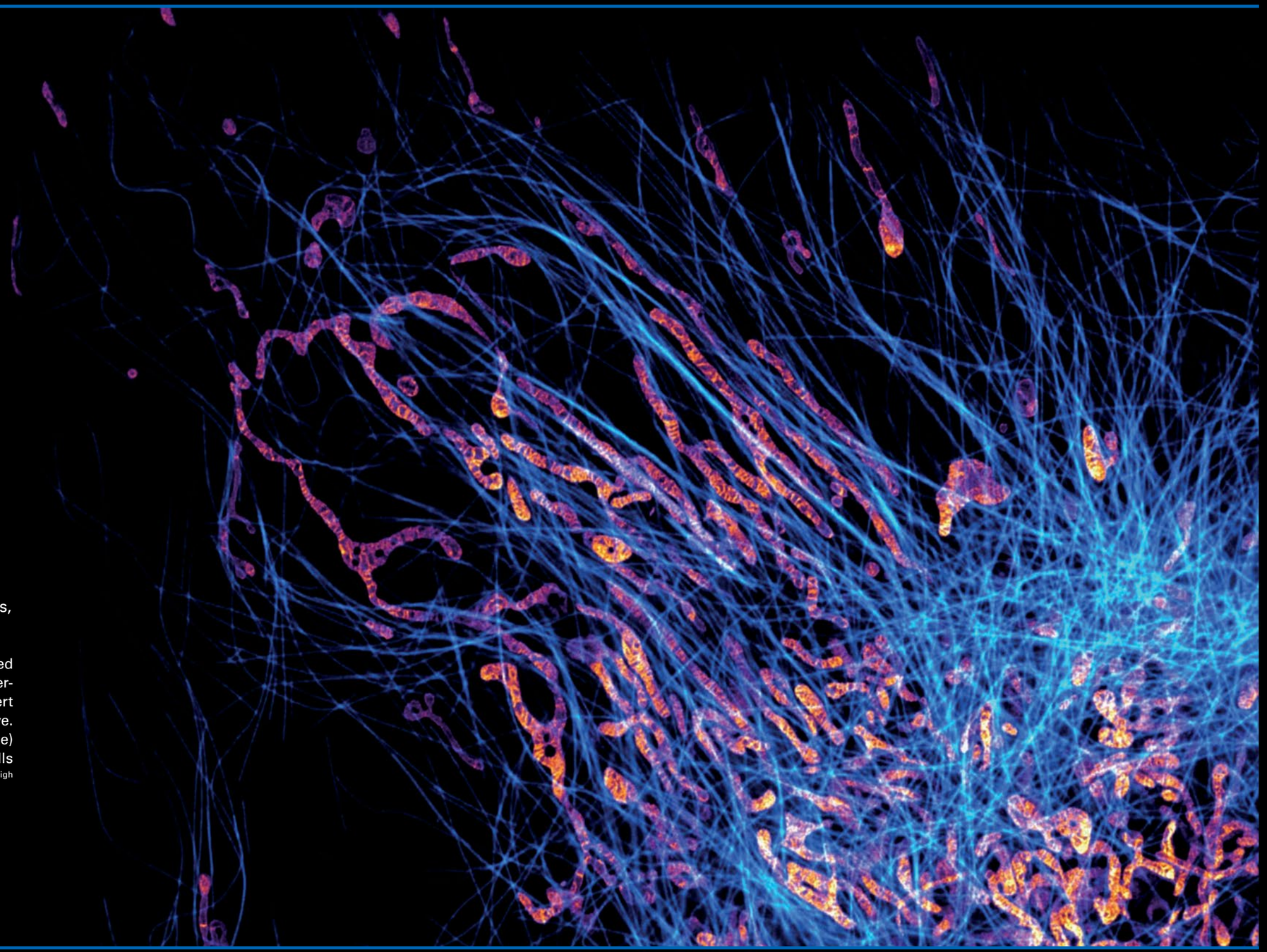
ibidi® cells in focus



2025

ibidi® cells in focus



JANUARY

Till Stephan

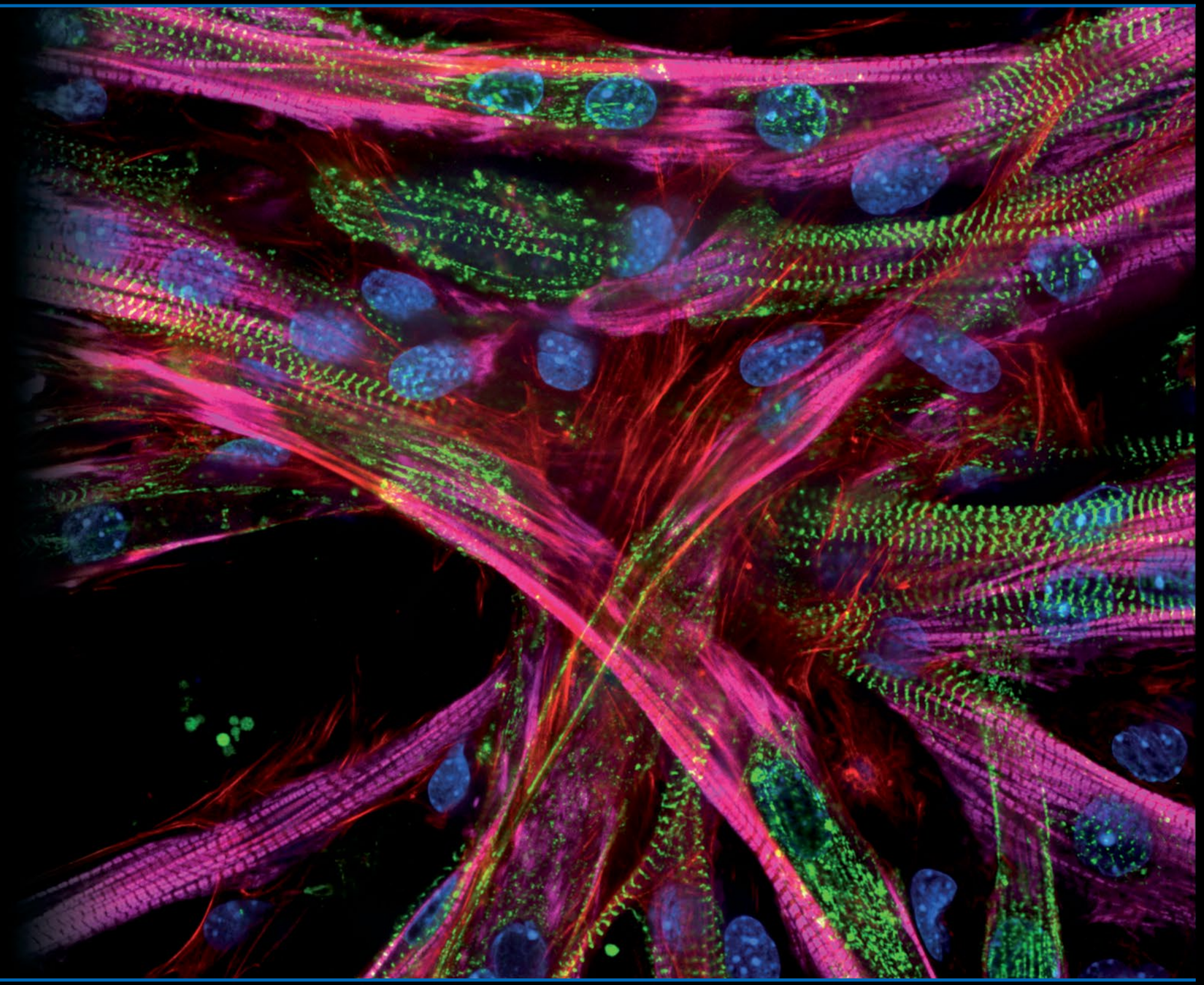
Buchmann Institute for Molecular Life Sciences,
Goethe University Frankfurt, Germany

The image shows a part of a live cancer cell captured using a stimulated emission depletion (STED) super-resolution fluorescence microscope (Abberior Expert Line STED) with a UPlanSApo 100x/1.40 oil objective. The cells were labeled for mitochondria (orange) and the cytoskeleton (microtubules, cyan). Cells were cultivated and imaged in a µ-Dish $^{35\ mm,\ high}$ Glass Bottom.

Follow @stephan_till on X.

WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI
1	2	3	4	**5**	6	7	8	9	10	11	**12**	13	14	15	16	17	18	**19**	20	21	22	23	24	25	**26**	27	28	29	30	31

ibidi® cells in focus



FEBRUARY

Leander Vonk

Amsterdam UMC, The Netherlands

Myotubes differentiated from C2C12 myoblasts, cultured in a µ-Slide 18 Well. Cells were stained for α-actinin (green), actin (phalloidin, red), myosin (magenta) and nuclei (DAPI, blue), to visualize sarcomere formation. This image was acquired using a CrestOptics X-Light V3 spinning disc confocal microscope with a 60x oil immersion objective.

Follow Leander Vonk on LinkedIn.

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1	**2**	3	4	5	6	7	8	**9**	10	11	12	13	14	15	**16**	17	18	19	20	21	22	**23**	24	25	26	27	28

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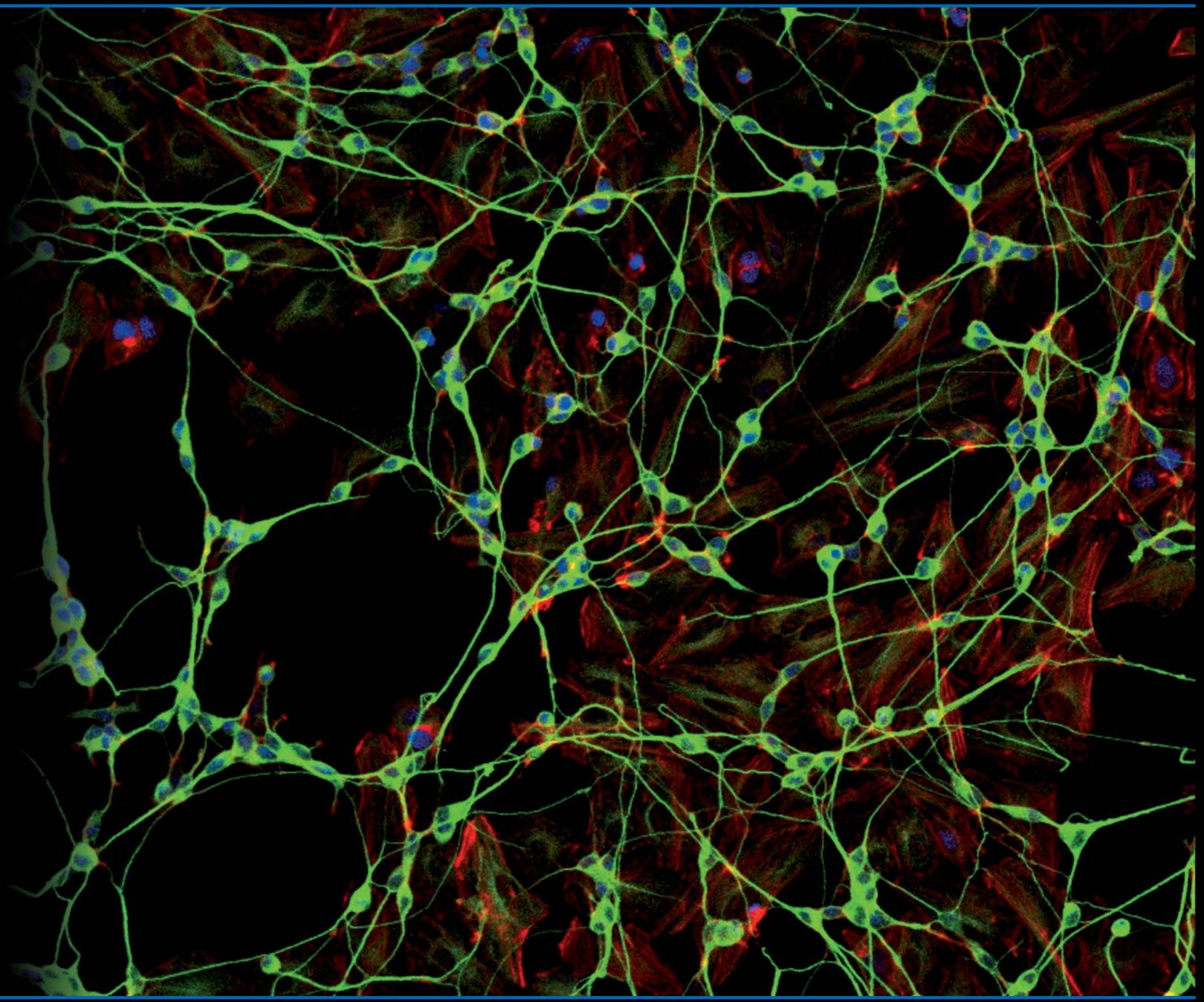

MARCH

Bárbara M. de Sousa
and Sandra I. Vieira

Institute of Biomedicine, Department of Medical Sciences, University of Aveiro, Portugal

The beautiful intricacies of an electrified neuronal network: SH-SY5Y cells upon 7 days of neuronal differentiation and daily capacitive electrical stimulation. The neuronal network of N-type cells stands out through a β-III-tubulin labelling (green). Supporting S-type cells beneath the neuronal network are seen through F-actin labelling by phalloidin (red). Nuclei were counterstained with DAPI (blue). The image was acquired in a Zeiss LSM 880 with Airyscan confocal microscope using a 10x objective.

Follow Bárbara Sousa on LinkedIn and @barbaramsousa20 on X.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

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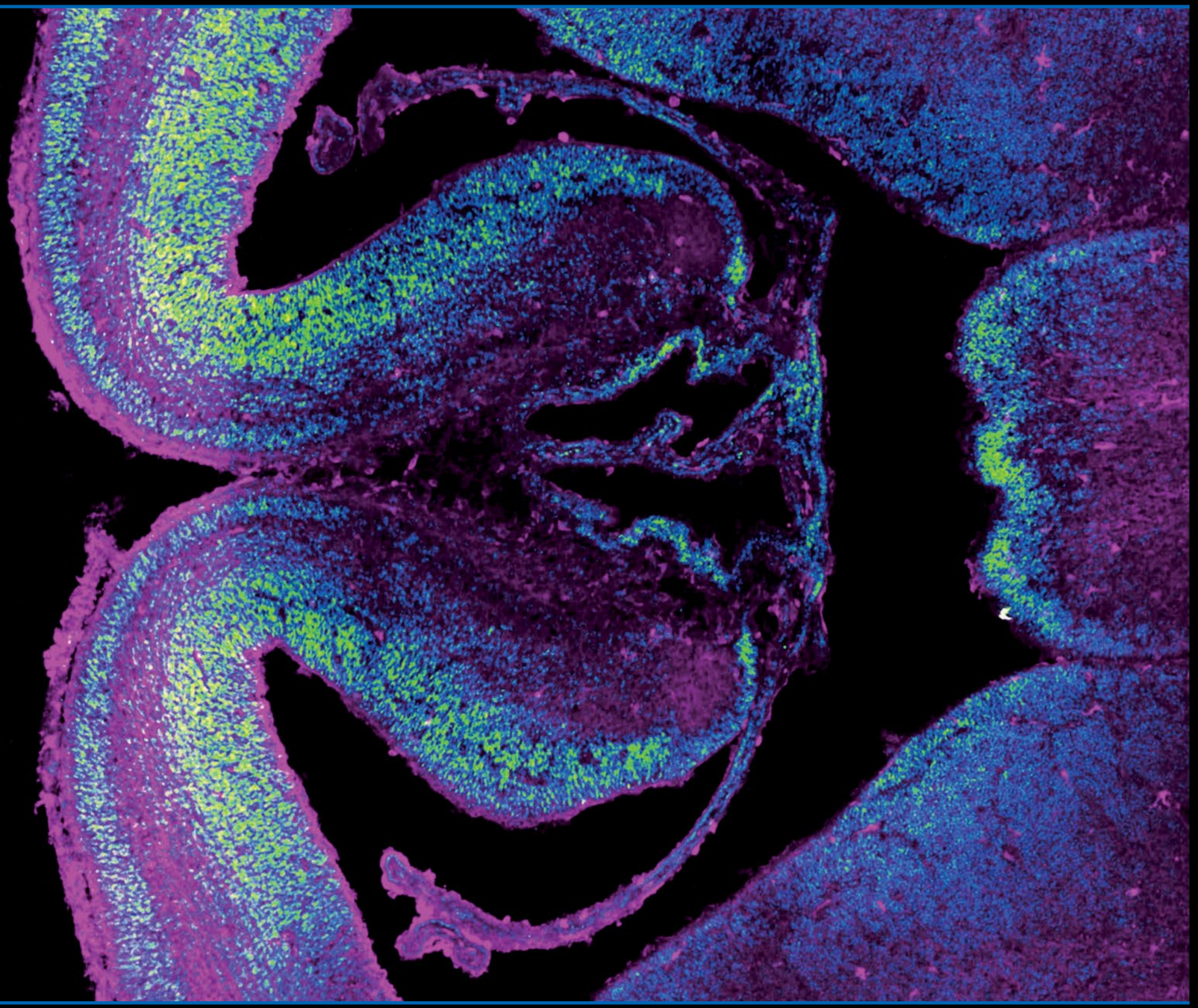

APRIL

Tabitha Rücker

Institut Pasteur, Paris, France

Coronal slice of an E18 murine choroid plexus. The tissue was stained with Hoechst (nuclei) and anti-Iba1 (microglia). A 'GreenFireBlue' hyperstack temporal color code was applied to the Hoechst z-stacks. The imaging was performed using a Nikon Ti2 microscope with a spinning disk confocal setup and a 10x objective.

Follow Tabitha Rücker on LinkedIn.

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1	2	3	4	5	**6**	7	8	9	10	11	12	**13**	14	15	16	17	18	19	**20**	21	22	23	24	25	26	**27**	28	29	30

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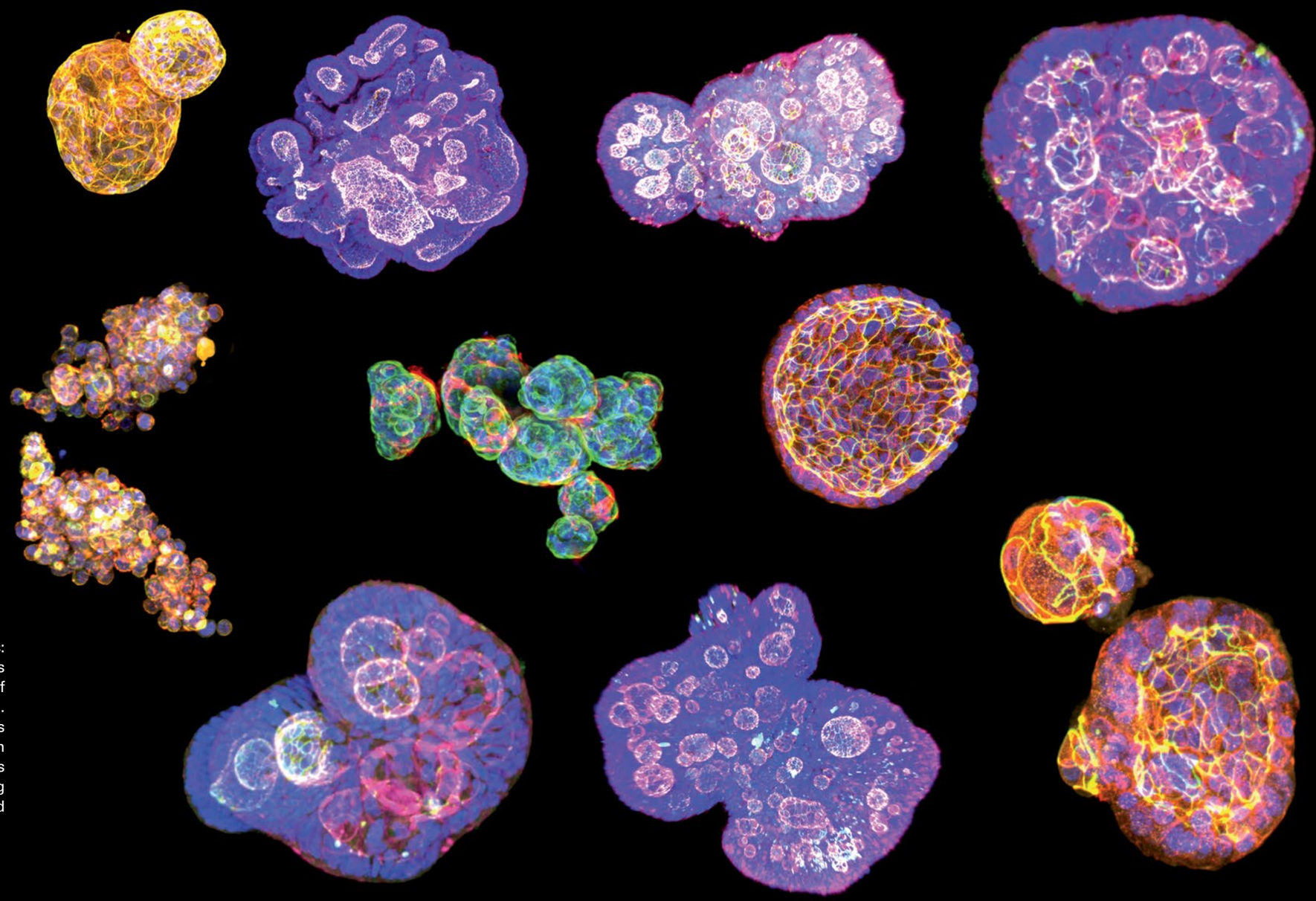

MAY

Sanika Jahagirdar

Cluster of Excellence Physics of Life,
TU Dresden, Germany

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Follow Sanika Jahagirdar on LinkedIn
and @SanikaJag on X.

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1	2	3	**4**	5	6	7	8	9	10	**11**	12	13	14	15	16	17	**18**	19	20	21	22	23	24	**25**	26	27	28	29	30	31

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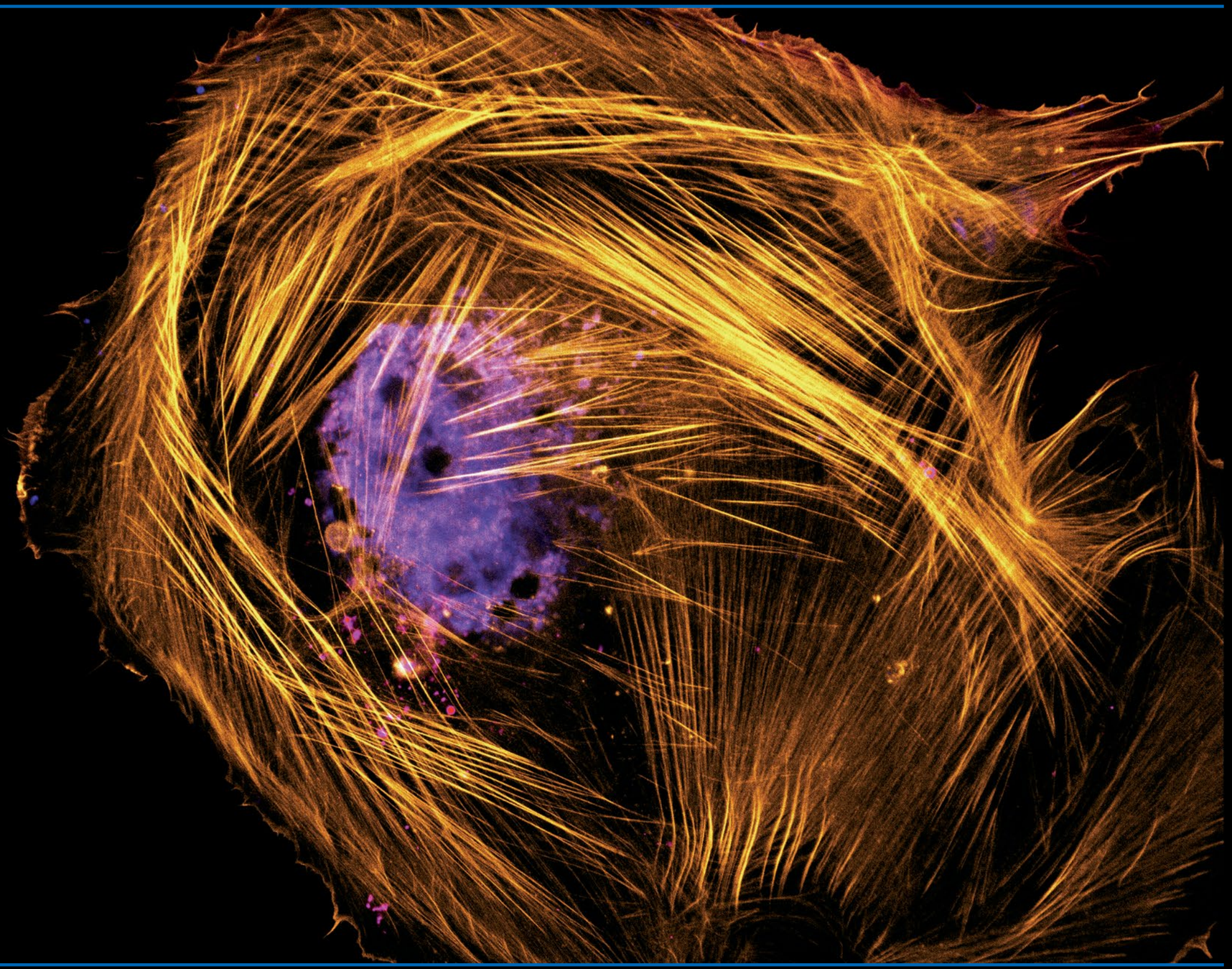
JUNE



Kamila Kozik

Membranology Unit, Okinawa Institute of Science and Technology, Japan

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Follow Kamila Kozik on LinkedIn and @OIST_KonoLab on X.

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1	2	3	4	5	6	7	**8**	9	10	11	12	13	14	**15**	16	17	18	19	20	21	**22**	23	24	25	26	27	28	**29**	30

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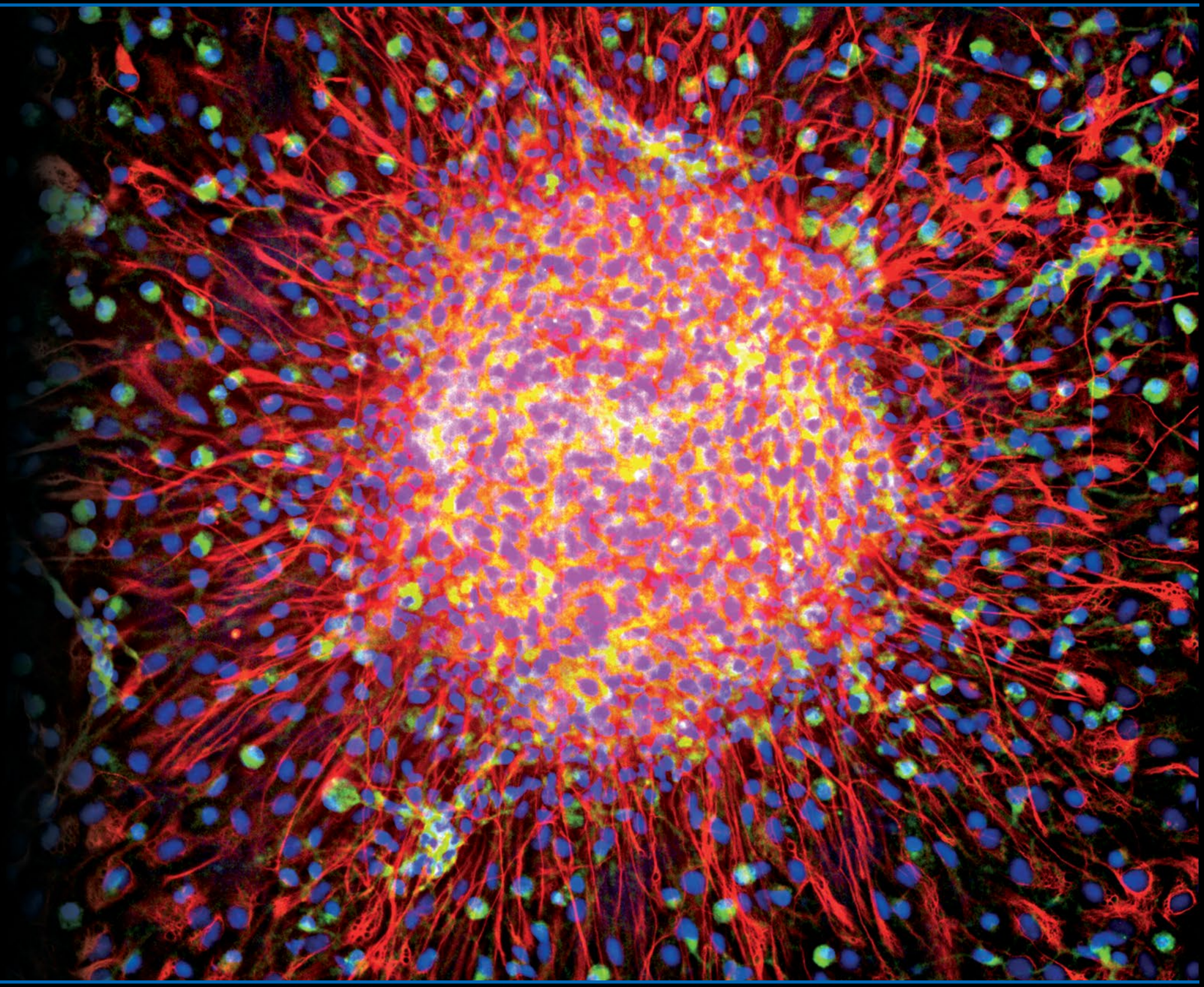

JULY

Rajsekhar Roy

IIT-Jodhpur, India

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Follow Rajsekhar Roy on LinkedIn,
@Rajsekh67025902 on X,
and @rajsekhar_roy on Instagram.

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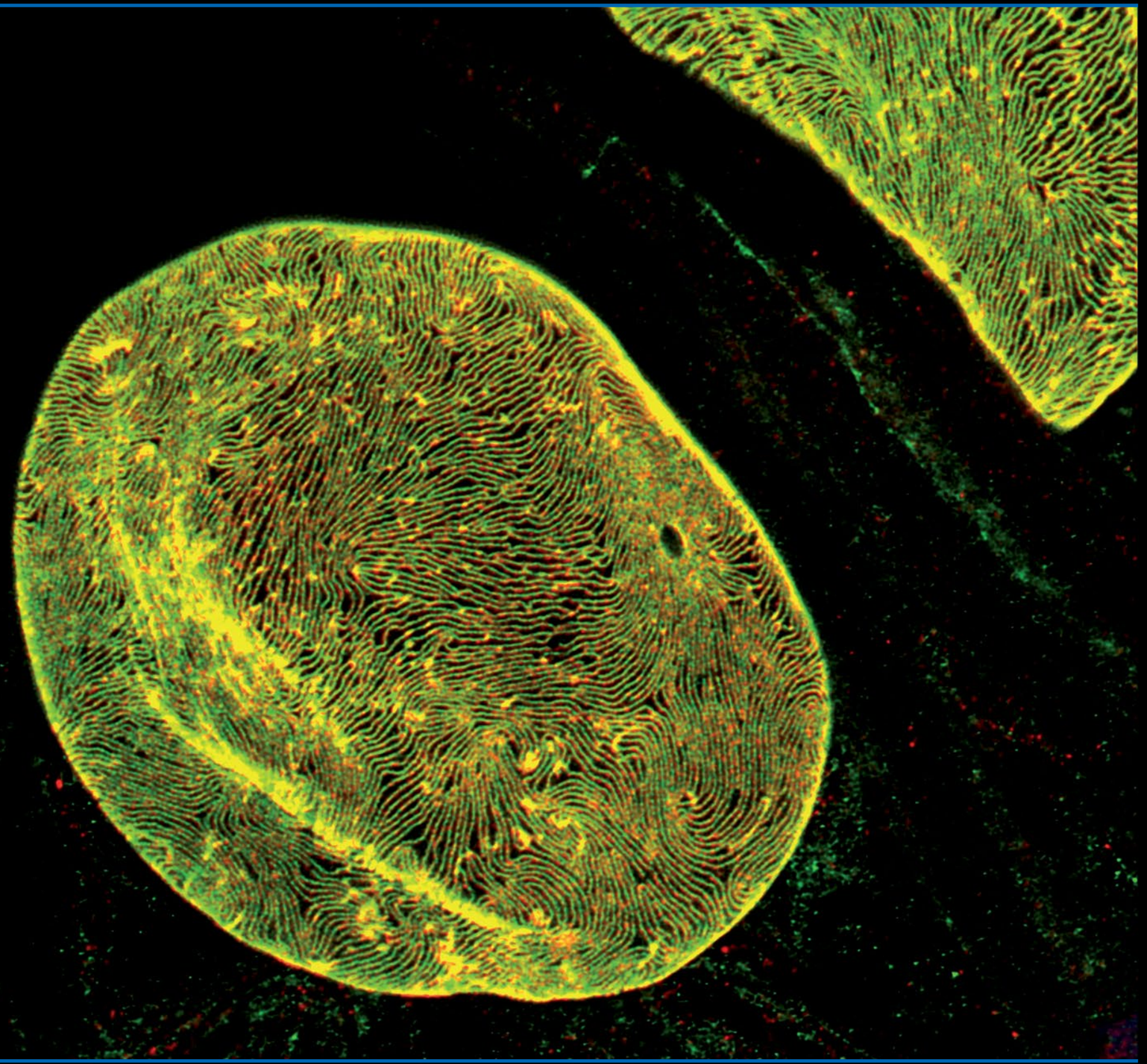

AUGUST

Luisa Bertgen

University Hospital Zurich, Nephrology Lab, Switzerland

Confocal microscopy of *Drosophila melanogaster* garland nephrocyte surface dissected from L3 larvae and stained for nephrocyte diaphragm markers Sticks and Stones (Sns) and Polychaetoid (Pyd), which are orthologs of nephrin and ZO-1, respectively. The image was acquired using a Leica SP8 confocal microscope with a 63x oil immersion objective.

Follow Luisa Bertgen on LinkedIn and @luisa_brtg on Instagram.

FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
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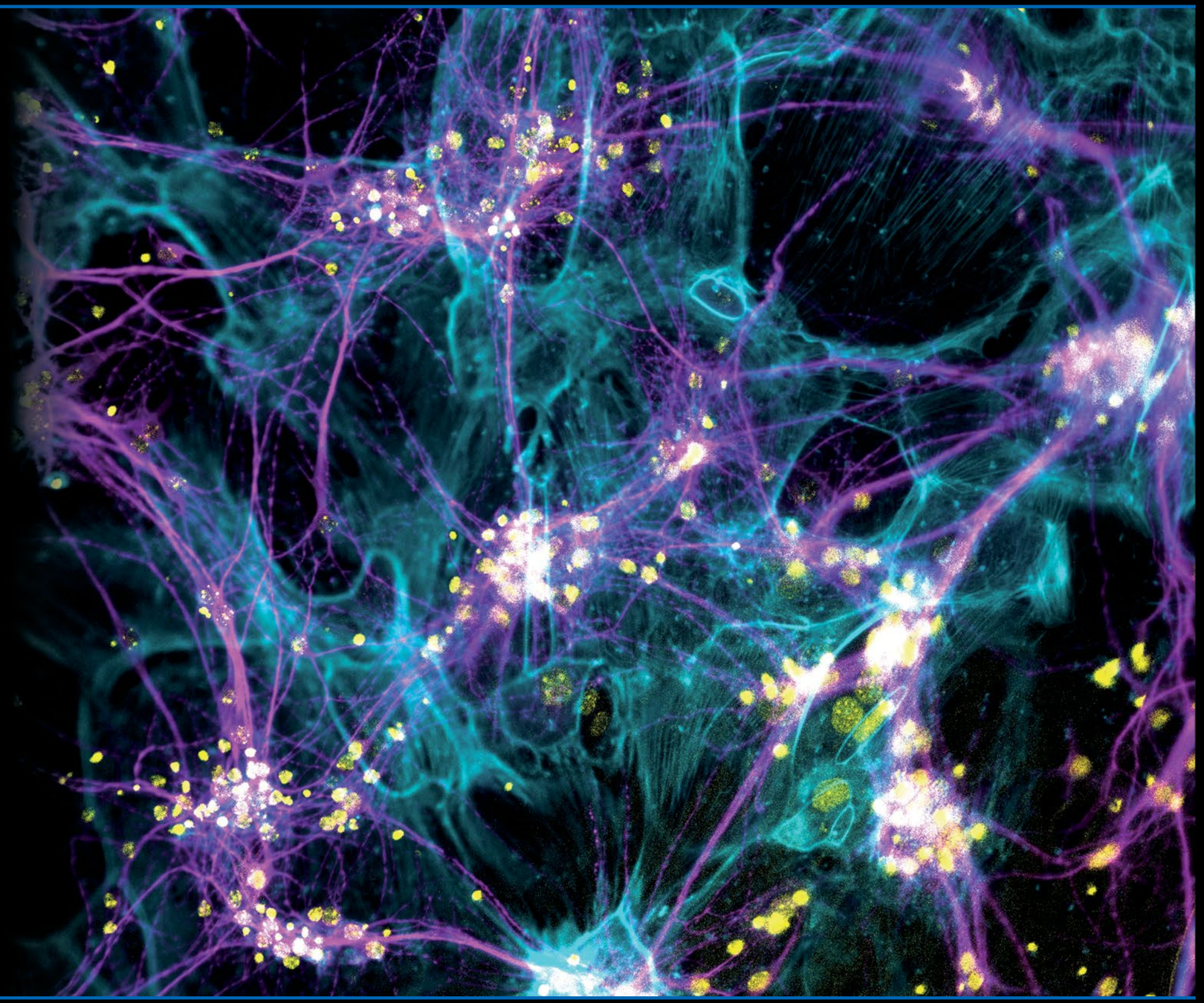
ibidi® cells in focus



SEPTEMBER

Mari Angeles Juanes

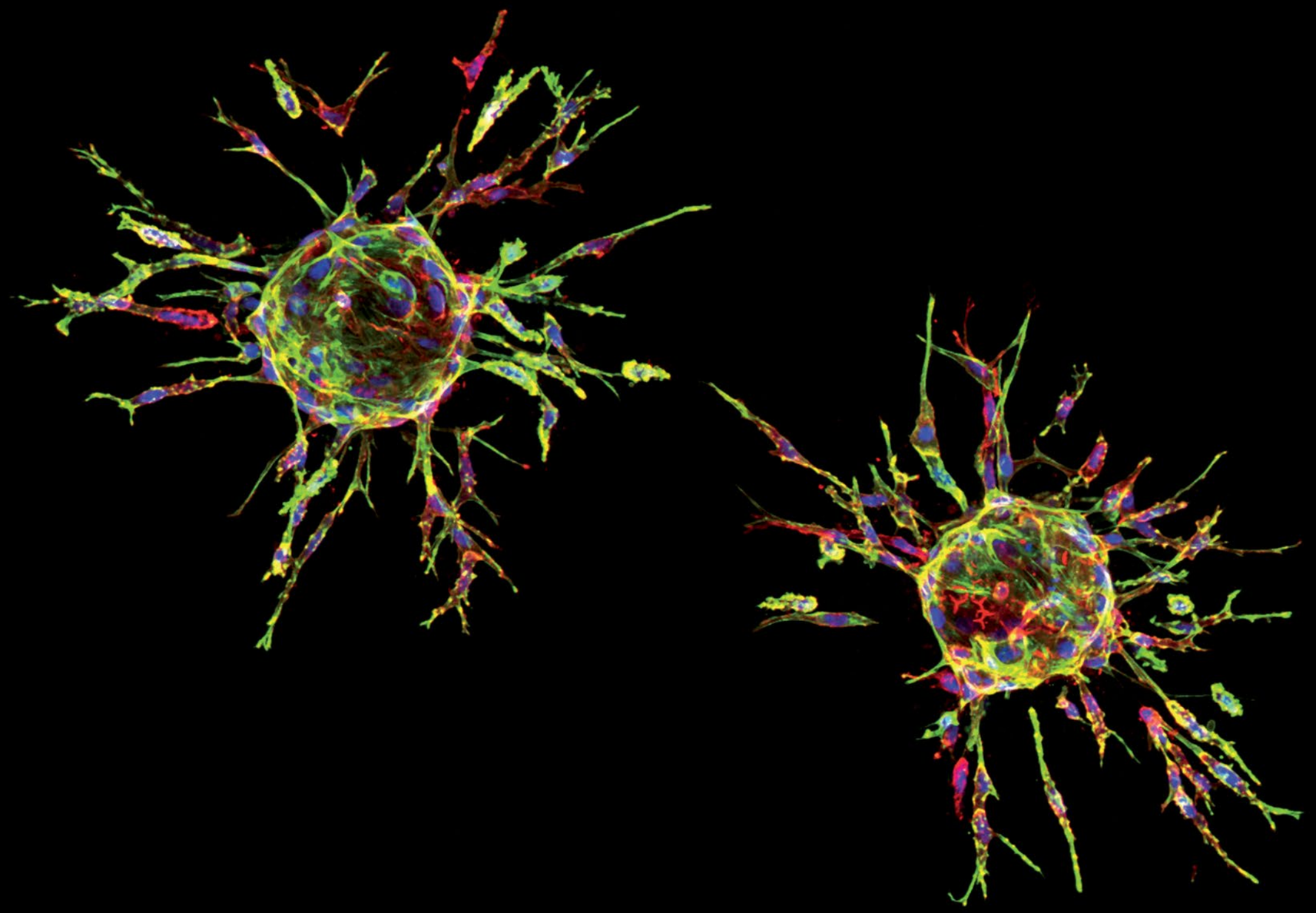
Centre de Investigacio Principe Felipe,
Valencia, Spain

Connecting with the cosmos: Mouse neurons were fixed and stained for F-actin (phalloidin, magenta), MAP2 (neurite marker, cyan), and nuclei (DAPI, yellow). The neurons were cultured in a µ-Slide 8 Well ^{high}, stained, and then imaged using a Leica wide-field DMi8 microscope with a 20x objective.

Follow Mari Angels Juanes Ortiz on LinkedIn and @juanes_lab on X.

MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE
1	2	3	4	5	6	**7**	8	9	10	11	12	13	**14**	15	16	17	18	19	20	**21**	22	23	24	25	26	27	**28**	29	30

ibidi® cells in focus



OCTOBER

Juliette Vleeming

Institute of Biology Leiden, Leiden University, The Netherlands

Human umbilical vein endothelial cells (HUVECs) on a bead, sprouting in fibrin gel. Cells were stained for actin (green, phalloidin-fluorescein), nuclei (blue, Hoechst), and cell membrane (red, WGA). The image was acquired using a Leica Stellaris 5 confocal microscope with a 10x objective. The image is a maximum intensity projection of a z-stack (136 z-sections, 2 µm step size).

Follow Juliette Vleeming on LinkedIn.

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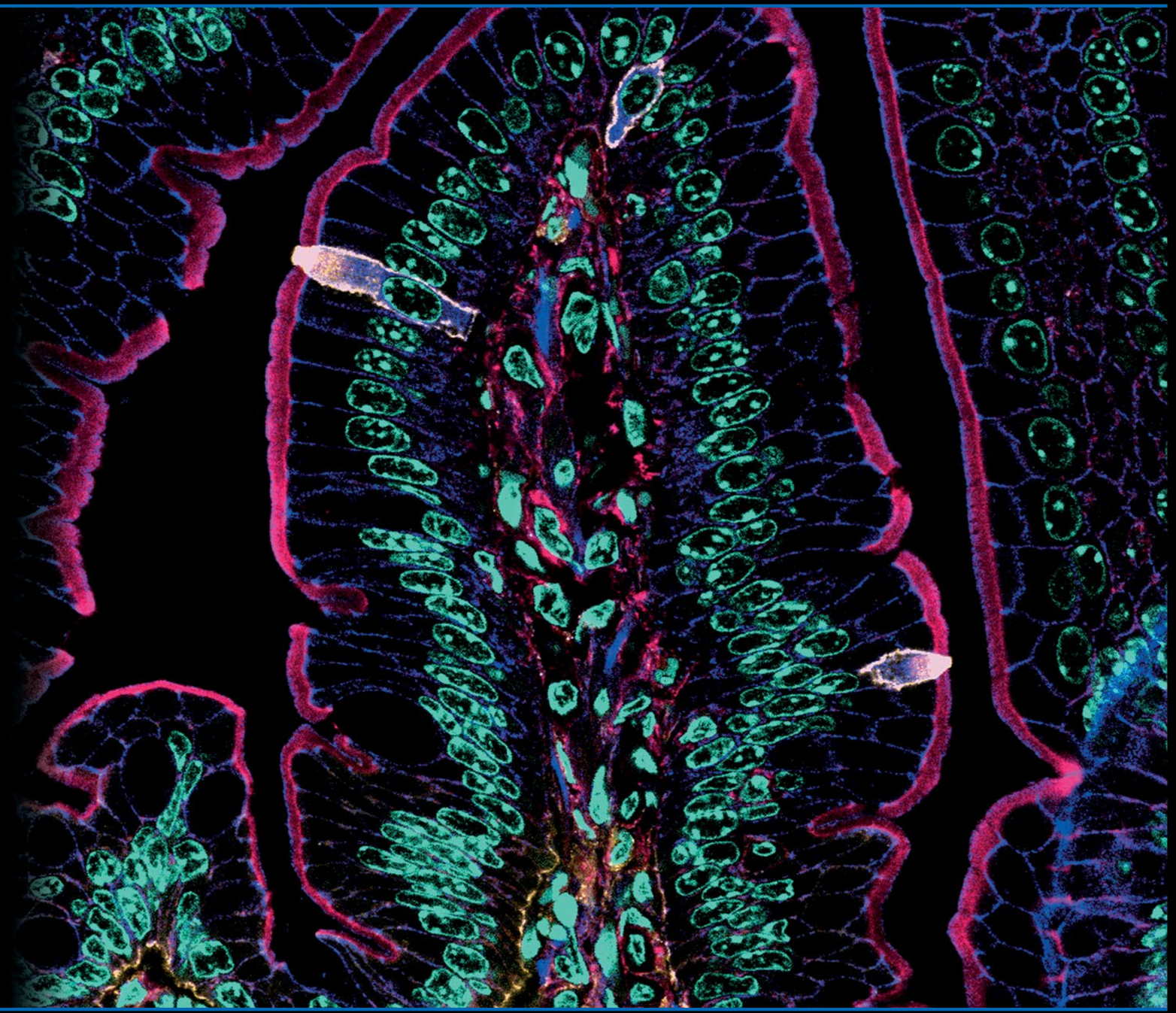
1	2	3	4	**5**	6	7	8	9	10	11	**12**	13	14	15	16	17	18	**19**	20	21	22	23	24	25	**26**	27	28	29	30	31

ibidi® cells in focus



NOVEMBER

Rachel Stubler

Medical University of South Carolina, USA

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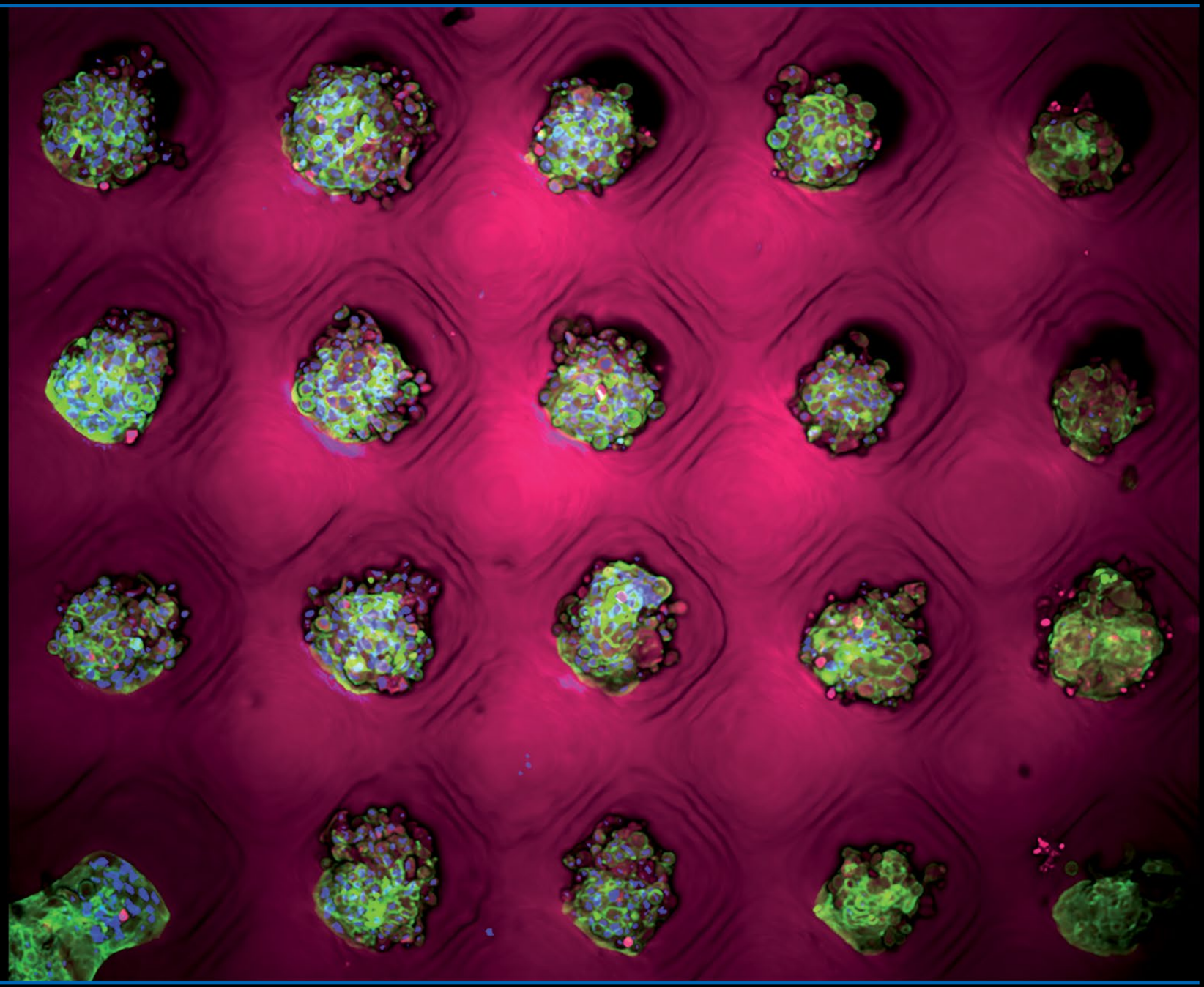
Follow Rachel Stubler on LinkedIn and @RachelStubler on X.

SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

ibidi® cells in focus



DECEMBER

Mina Aleemardani

University of Bristol, UK

Growing cells on specific patterns can promote the formation of spheroids or organoids, mimicking tissue architecture and improving cellular organization. These patterned growth strategies aid in creating more physiologically relevant models for research and regenerative medicine. The confocal imaging was performed using a Nikon W1 spinning disk confocal equipped with a 10x Plan Apo λ objective and a spinning disk with 25 µm diameter pinholes. The scaffold was created using 3D printing technique through vat polymerization. Blue: DAPI (nuclei), green: F-actin, red: Ki67, purple (background): patterned scaffold.

Follow Mina Aleemardani on LinkedIn and @mina_in_scienceland on Instagram.

MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED
1	2	3	4	5	6	**7**	8	9	10	11	12	13	**14**	15	16	17	18	19	20	**21**	22	23	24	25	26	27	**28**	29	30	31

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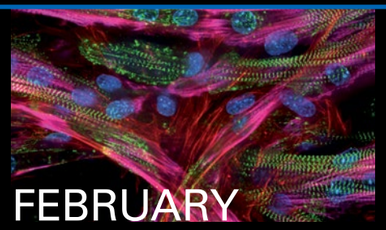
Follow @stephan_till on X.



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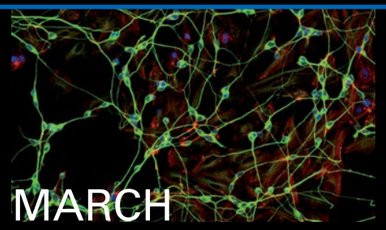
Follow Leander Vonk on LinkedIn.



MARCH

Bárbara M. de Sousa and Sandra I. Vieira

Institute of Biomedicine, Department of Medical Sciences, Univ. of Aveiro, Portugal

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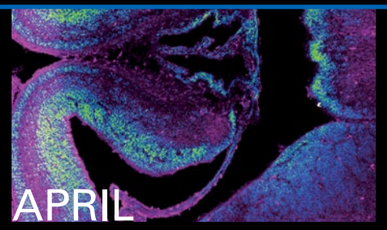
Follow Bárbara Sousa on LinkedIn and @barbaramsousa20 on X



APRIL

Tabitha Rücker

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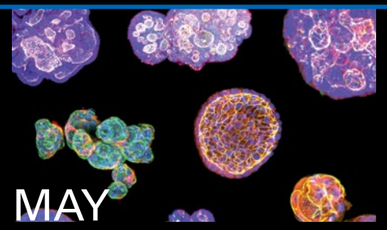

MAY

Sanika Jahagirdar

Cluster of Excellence Physics of Life, TU Dresden, Germany

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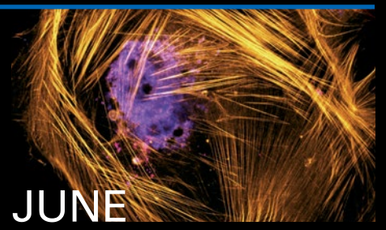

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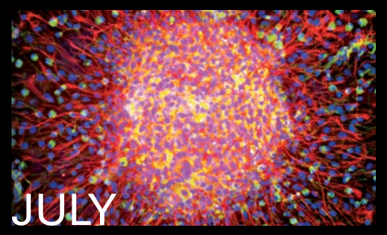

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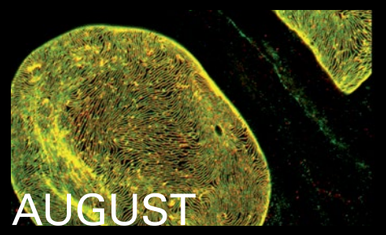

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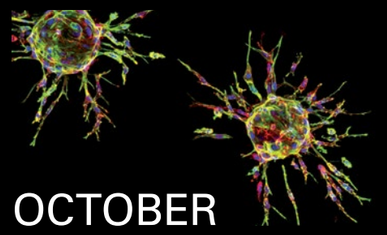

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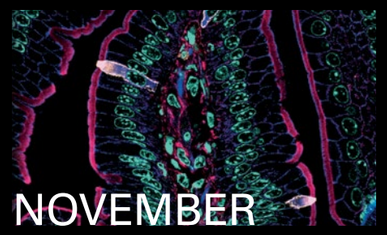

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Immunofluorescent staining of murine small intestine with the apical membrane labeled for β-actin (magenta) and nuclei (Hoechst, teal). The apical and lateral marker CDHR2 (purple) is highly expressed by rare chemosensory tuft cells, marked by phospho-EGFR (yellow). The colocalization of CDHR2 and phospho-EGFR is shown in white. The image was taken on a Leica SP8 confocal microscope using a 40x objective.

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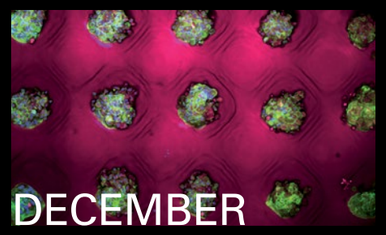

DECEMBER

Mina Aleemardani

University of Bristol, UK

Growing cells on specific patterns can promote the formation of spheroids or organoids, mimicking tissue architecture and improving cellular organization. These patterned growth strategies aid in creating more physiologically relevant models for research and regenerative medicine. The confocal imaging was performed using a Nikon W1 spinning disk confocal equipped with a 10x Plan Apo λ objective and a spinning disk with 25 µm diameter pinholes. The scaffold was created using 3D printing technique through vat polymerization. Blue: DAPI (nuclei), green: F-actin, red: Ki67, purple (background): patterned scaffold.

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