





JANUARY

Adam Vogrin

RMIT University, Bundoora, Australia

Adaxial trichomes on an Australian wild iris (Dietes grandiflora) petal. Confocal microscopy image via autofluorescence using a 4x objective and a z-stack maximum intensity projection.

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FRI SAT SUN MON TUE WED



FEBRUARY

Syeda Inaas

University Hospital RWTH Aachen, Germany

Single induced pluripotent stem cells (iPSCs) were cultured in fibrin hydrogels in a μ -Plate 96 Well Black Glass Bottom. The iPSCs merge to form aggregates by day 7. They were stained for DAPI (nuclei, blue), phalloidin (F-actin, green), and Oct4 (red) to assess the extent of pluripotency of these iPSCs in the hydrogel. The image was acquired using a Zeiss LSM 710 with a 20x objective.

MON



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MARCH

Francisco Lázaro-Diéguez

Albert Einstein College of Medicine, Bronx, NY, United States

Polarized primary rat hepatocytes were immunostained against the tight junction protein ZO-1 (yellow). Actin filaments (red) and nuclei (green) were stained with fluorescently labeled phalloidin and DAPI, respectively. The image is a projection of a z-stack acquired using a Leica TCS SP5 confocal microscope system with a 100x objective.

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APRIL

Alan Prescott

Dundee Imaging Facility, University of Dundee, United Kingdom

Confocal z series from *Sphagnum* moss shown as a color-coded projection. The large spaces in the moss leaf are reservoirs holding water. This image was prepared as part of a project on *Sphagnum* moss by Kit Martin, a recent graduate in MFA Art, Science, and Visual Thinking. The image was created using a Zeiss LSM 710 confocal microscope.

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MAY

Remco Hoogervorst

Department of Physiology, Amsterdam University Medical Centers, The Netherlands

This image shows cardiomyocytes derived from human induced pluripotent stem cells (iPSCs), cultured in a µ-Slide 8 Well. Cells were stained with cardiac troponin T (red), α -actinin (green), and DAPI (blue) to visualize different compartments of the sarcomeres and cells. The image was acquired using an Olympus IX81 with a 60x oil objective.

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JUNE

Masoumeh Jahani Kadousaraei

Center for Translational Oral Research, University of Bergen, Norway

3D-bioprinted human bone marrow mesenchymal stem cells in a photocrosslinkable material. The cells were stained for F-actin (cyan), Connexin 43 (red), and nuclei (yellow). The stitched image (2×2 tiles) with z-projection was captured using Andor DragonFly confocal microscopy (Nikon) and a 10x objective.

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JULY

MON

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Enrique González-Ortegón¹, Ángel García-López²

¹ICMAN, Consejo Superior de Investigaciones Científicas, ²SC-ICYT, Universidad de Cádiz, Puerto Real, Spain

Maximum intensity projection showing the autofluorescence of the first zoeal stage of the coastal marine shrimp Palaemon serratus. The specimen was imaged in ethanol in a $\mu\text{-Dish}^{35}\,^{\text{mm, high}}$ Glass Bottom using a Zeiss LSM 880 confocal microscope with a 10x air objective, 405 nm laser excitation, and 410-740 nm emission (pseudocolored in yellow).

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Follow @ICMAN-CSIC and @IcytSc on Twitter.

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AUGUST

Harit Boonyaputthikul

SAT

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Histocenter Co., Ltd., Bangkok, Thailand

S2OS mouse fibroblast cells stained for actin (Spy 555, yellow), microtubules (Atto 594, red), mitochondria (Alexa 488, green), and nuclei (Hoechst 33342, blue) in an 8 Well Chamber, removable. The image was captured using a Leica Stellaris 5 confocal microscope with White Light Laser integration, using a 63x oil immersion objective, and projected from 12 stacks.

Follow Histocenter Thailand on Facebook and LinkedIn, and follow Harit Boonyaputthikul on LinkedIn.

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SEPTEMBER

Joana Marques de Sousa

TEMA and CICECO, University of Aveiro, Portugal

"Channeling Connections" is a confocal microscopy image of neuronal network formation after retinoic acid-induced differentiation of neural stem cells on amniotic membrane-derived multichannel hydrogels. Neurons were labeled using Tuj1 (green), while nuclei were counterstained using the ibidi Mounting Medium with DAPI (blue). The image was acquired using a Zeiss LSM 900 KMAT confocal microscope with a 10x objective.

Follow @joanapmsousa on Instagram and Joana Marques de Sousa on LinkedIn.



SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE
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OCTOBER

José Martin Murrieta-Coxca

Placenta Lab, Department of Obstetrics, Jena University Hospital, Germany

BeWo cells (trophoblasts) were cultivated under flow using the ibidi Pump System and the Perfusion Set Red. These cells mimick the placenta barrier (onchip). Cells were immunostained to label ß-catenin (green) and nuclei (violet). They were imaged using a Zeiss LSM 710 laser scanning confocal microscope with a 20x objective.

Follow @jm_coxca on Instagram, José Martin Murrieta Coxca on LinkedIn, and J.M.Coxca on Facebook.



TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	F
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NOVEMBER

Corinne Lebreton

CV1

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Imagine Institute - INSERM U1163, Paris, France

Microvilli on epithelial cells derived from a 3D culture of intestinal organoids, cultured in 2D in a μ -Slide I ^{0.4} Luer to study cell differentiation after shear stress. Microvilli were stained with phalloidin-Atto 550. Super-resolution imaging was performed with a STED (stimulated emission depletion) confocal microscope with a 600 nm depletion laser and a 100x objective.

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DECEMBER

Junpei Kuroda

MON

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WED

Graduate School of Frontier Biosciences, Osaka University, Japan

The fins of a transgenic zebrafish with fluorescently labeled collagen fibers were fixed and immunostained in a $\mu\text{-Dish}^{35\ \text{mm, high}}$ Glass Bottom. The collagen fibers, which serve as the physical pillars in the thin fin tissue of zebrafish, were visualized by a GFP tag (green). Cell nuclei in S-phase were labeled with BrdU (red), and the nuclei of all cells that compose the fins were stained with Hoechst (blue). The image was taken using the Zeiss LSM 900 confocal microscope with a 20x objective.

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Adam Vogrin

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The Netherlands

RMIT University, Bundoora, Australia

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Department of Physiology, Amsterdam University Medical Centers,

This image shows cardiomyocytes derived from human induced pluri-

potent stem cells (iPSCs), cultured in a µ-Slide 8 Well. Cells were stained

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Remco Hoogervorst



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University Hospital RWTH Aachen, Germany

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Follow Masoumeh Jahani K. on LinkedIn.



JULY

Francisco Lázaro-Diéguez

Follow Francisco Lázaro-Diéguez on LinkedIn.

Enrique González-Ortegón¹, Ángel García-López²

Maximum intensity projection showing the autofluorescence of the first

zoeal stage of the coastal marine shrimp Palaemon serratus. The specimen was imaged in ethanol in a μ -Dish ^{35 mm, high} Glass Bottom using a Zeiss LSM

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Joana Marques de Sousa

Follow Remco Hoogervorst on LinkedIn

TEMA and CICECO, University of Aveiro, Portugal

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Placenta Lab, Dept. of Obstetrics, Jena University Hospital, Germany

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NOVEMBER

Corinne Lebreton



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Dundee Imaging Facility, University of Dundee, United Kingdom

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and follow Harit Boonyaputthikul on LinkedIn

Graduate School of Frontier Biosciences, Osaka University, Japan

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