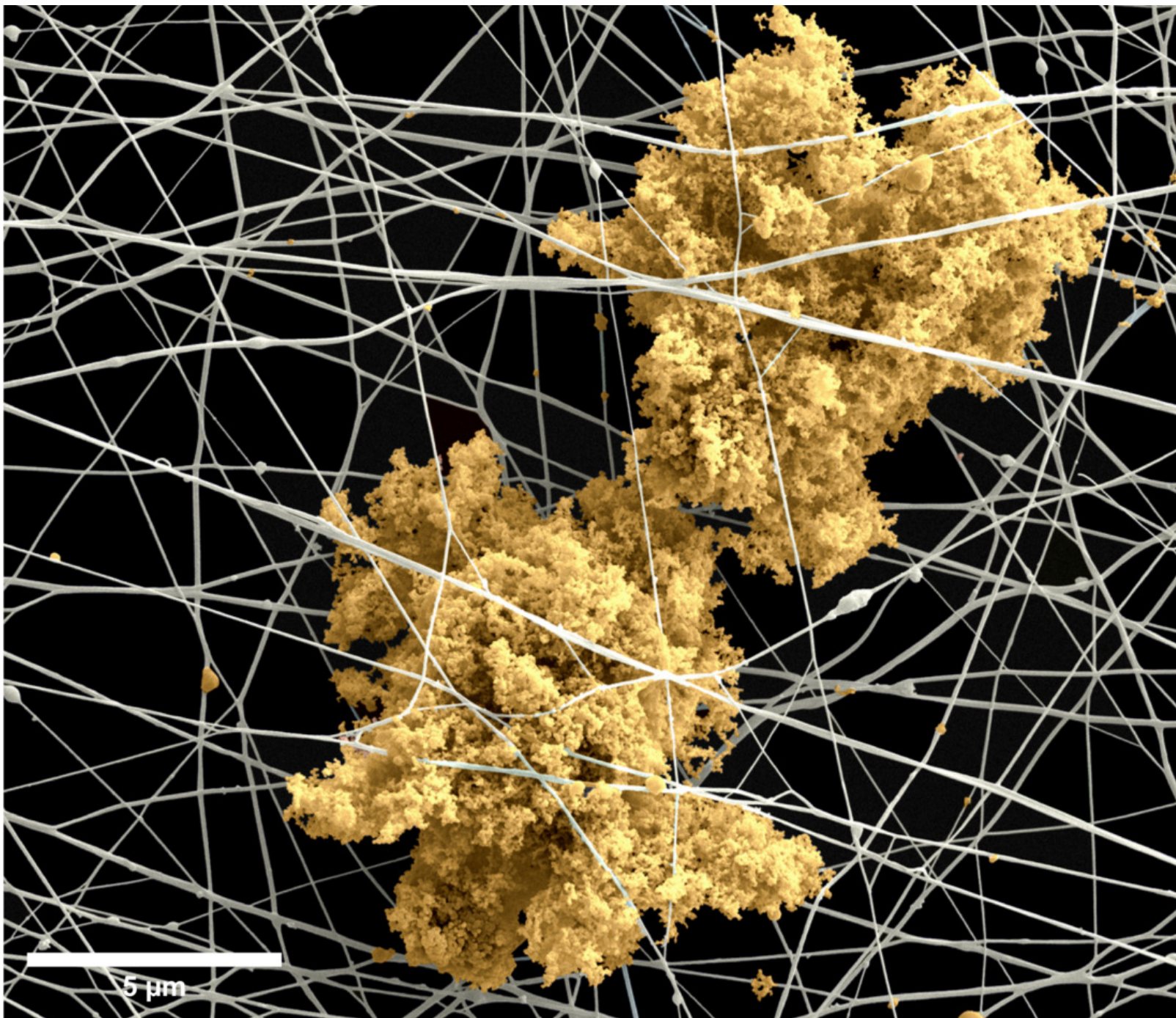


| JANUARY 2023 | |
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Pine stem

Transverse section of a Pine stem showing resin duct. Equipment Used: Brightfield image using a 5megapixel digital eyepiece camera on a Wild M20 Research microscope
Michael R. Gibson, Northamptonshire Natural History Society & Royal Microscopical Society. Image Credit: Prepared Biosil slide by the late John Wells



FEBRUARY 2023

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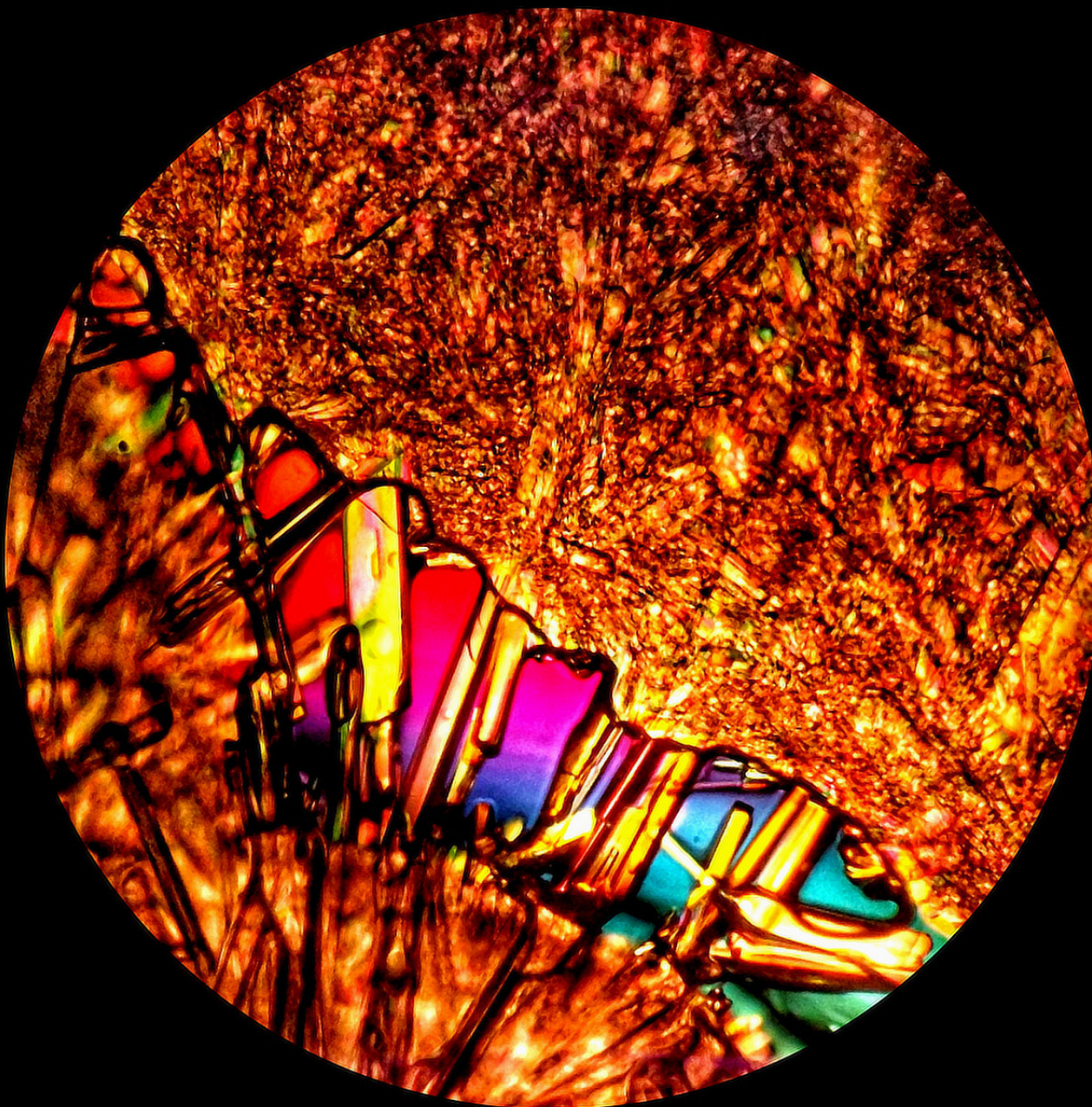
28 Tu

Fungi in spider web

Colourized SEM image of a fungi found in a spider web. A special collection method was applied to preserve the tension and the shape of a spider web as well as to allow for sample manipulation and imaging on both sides. The sample was coated with 7nm of platinum on both sides. Image processed and colourized with use of Mountains Map software. Equipment Used: Quorum Q150V S Plus coater; Tescan Amber FIB-SEM. Anna Walkiewicz, Quorum Technologies

Quorum





MARCH 2023

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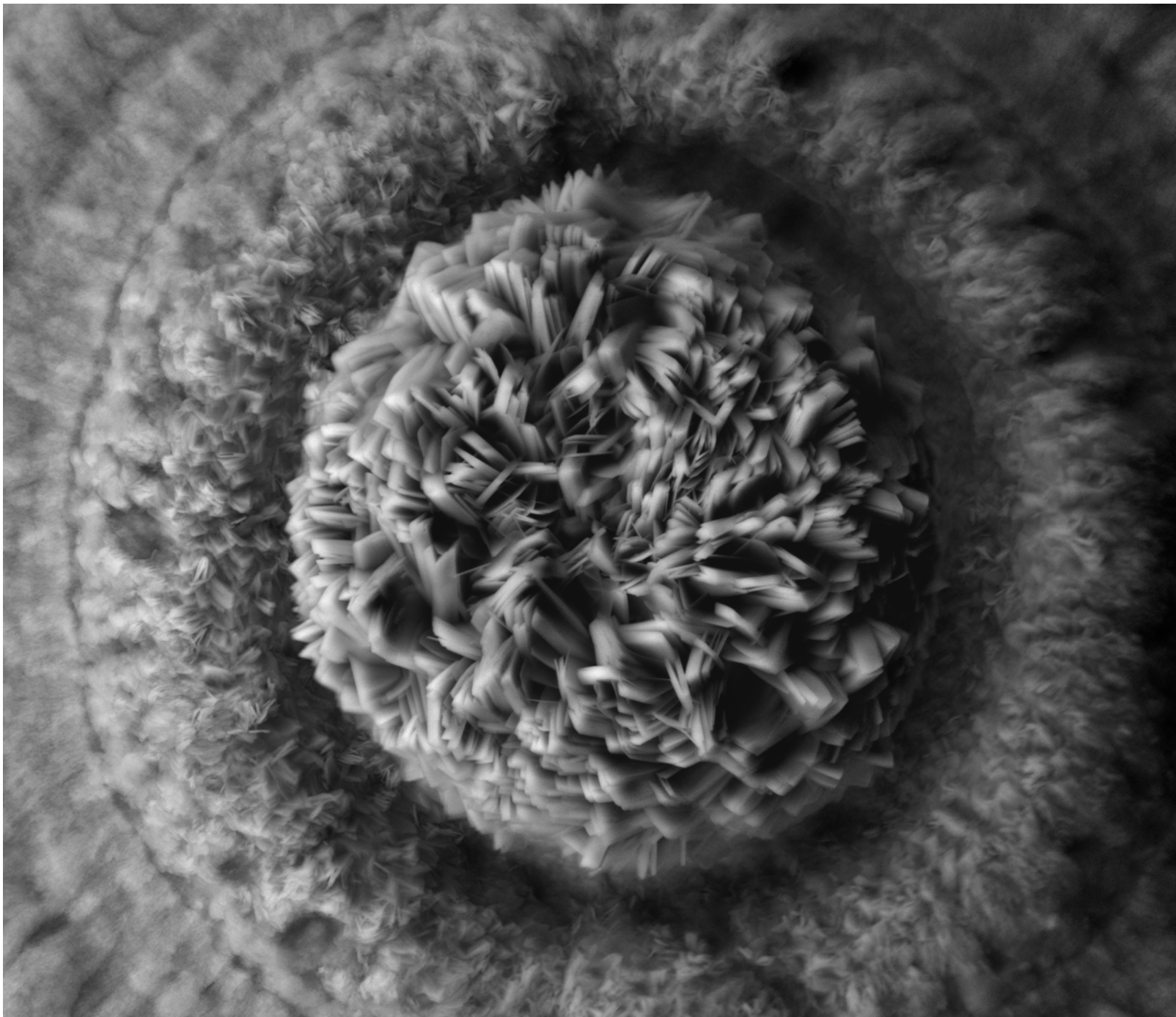
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MgSO₄ crystals (recrystallized from Epsom Salt)

Viewed under a total magnification of 100X using diascopic C-Pol with variable compensation. Equipment Used: Leica DM4000M microscope with Xiaomi Mi A3 camera

Shiraz S/O Kaderuppan



Hydroxyapatite Chrysanthemum

A multilayered polycrystalline hydroxyapatite hemisphere grown in a diffusion-mediated mode. Equipment Used: Hitachi S-3400N SEM, stacking of three images (BSE-3D, SE)
 Vladimir Shilovskikh, St. Petersburg State University

APRIL 2023

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MAY 2023

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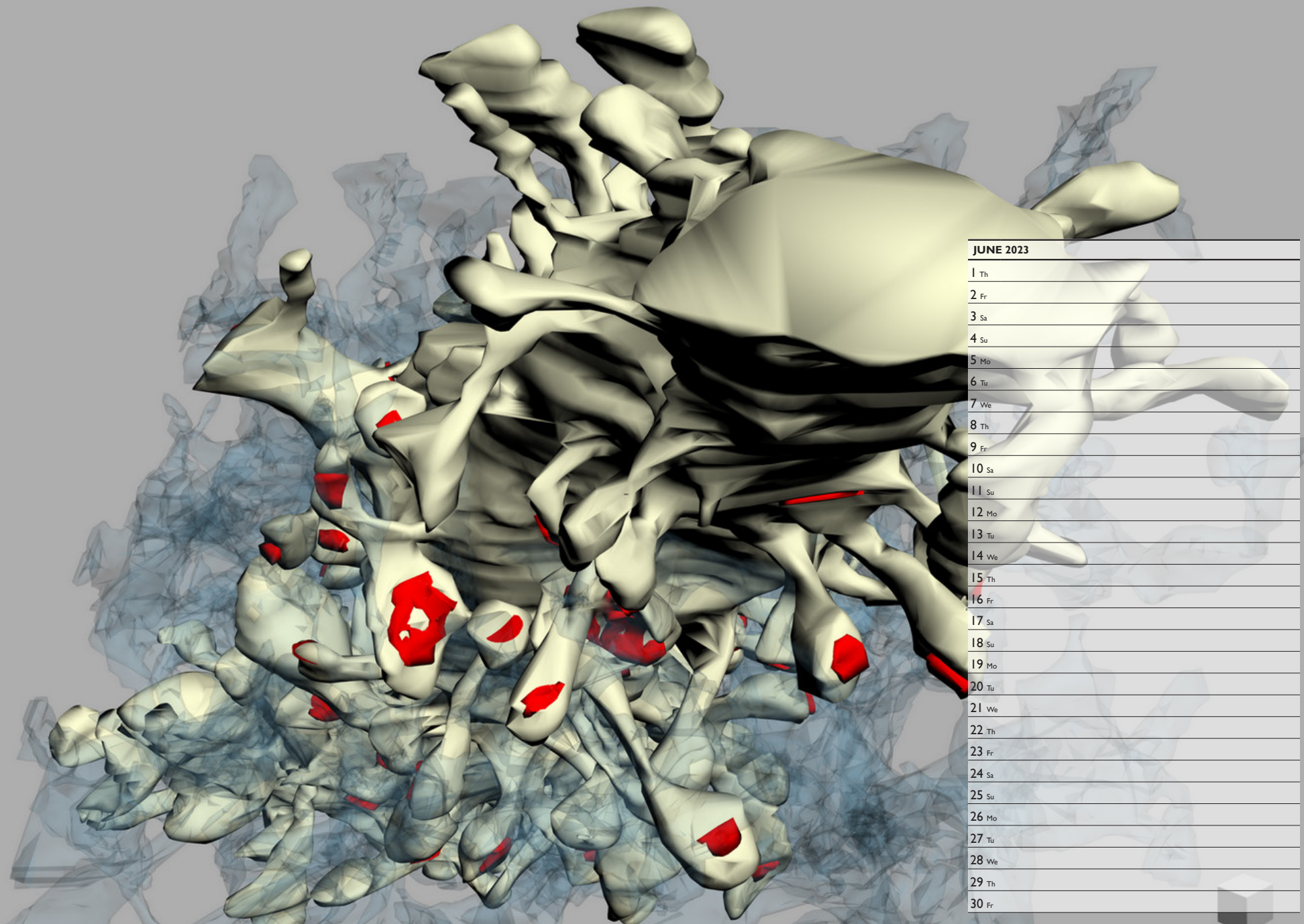
500 μm

Jumping Spider

Side view of a jumping spider. Equipment Used: Dead, dried black spider was prepared for light sheet microscopy. Data acquisition based on autofluorescence alone using UltraMicroscope Blaze™. Rendering was done using Imaris

Simon F. Merz, LaVision BioTec, a Miltenyi Biotec company. Image Credit: Lea Bornemann, Tobias Jarzemski, Simon F. Merz



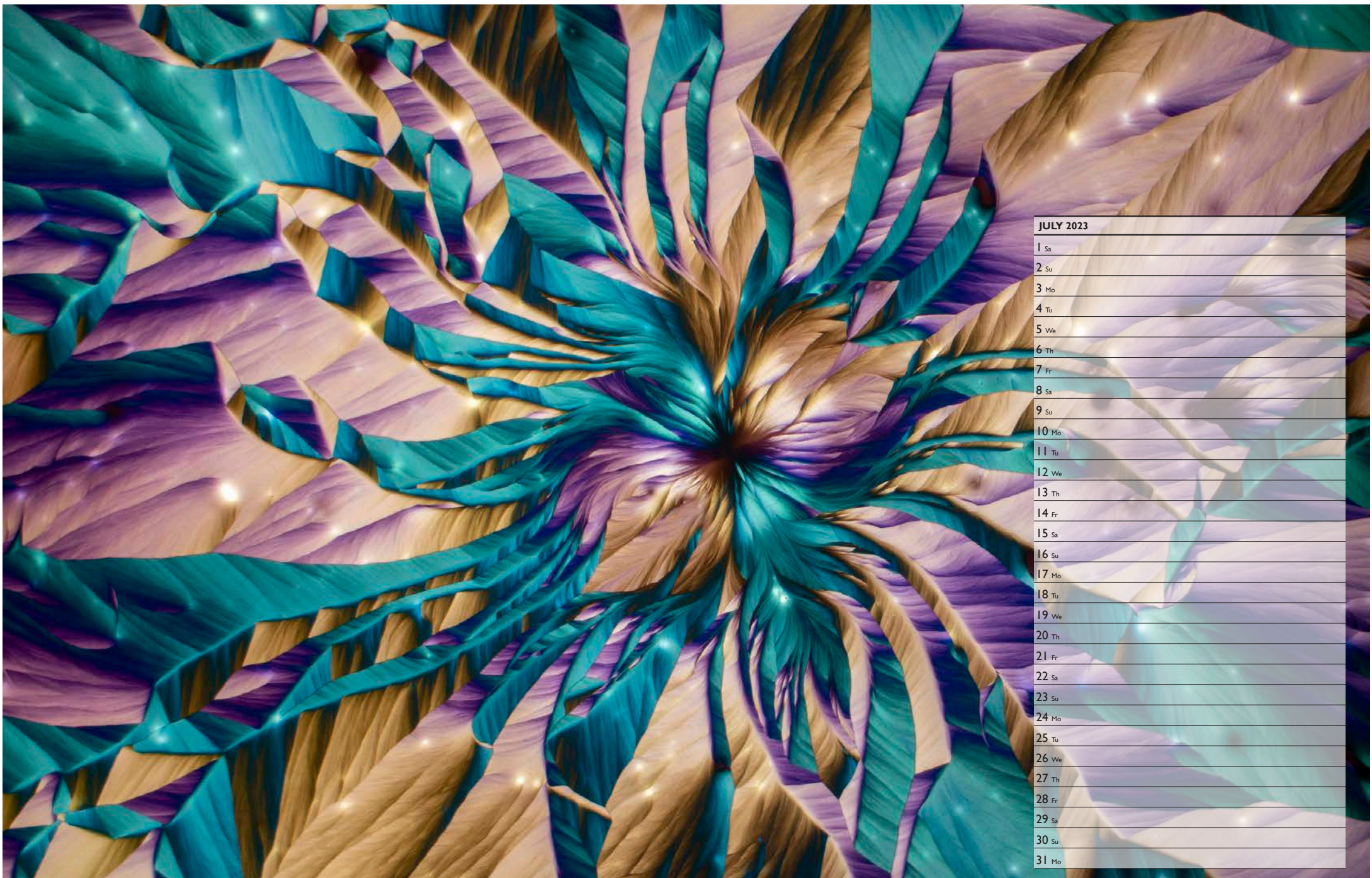


JUNE 2023

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Still life of cerebral cortex

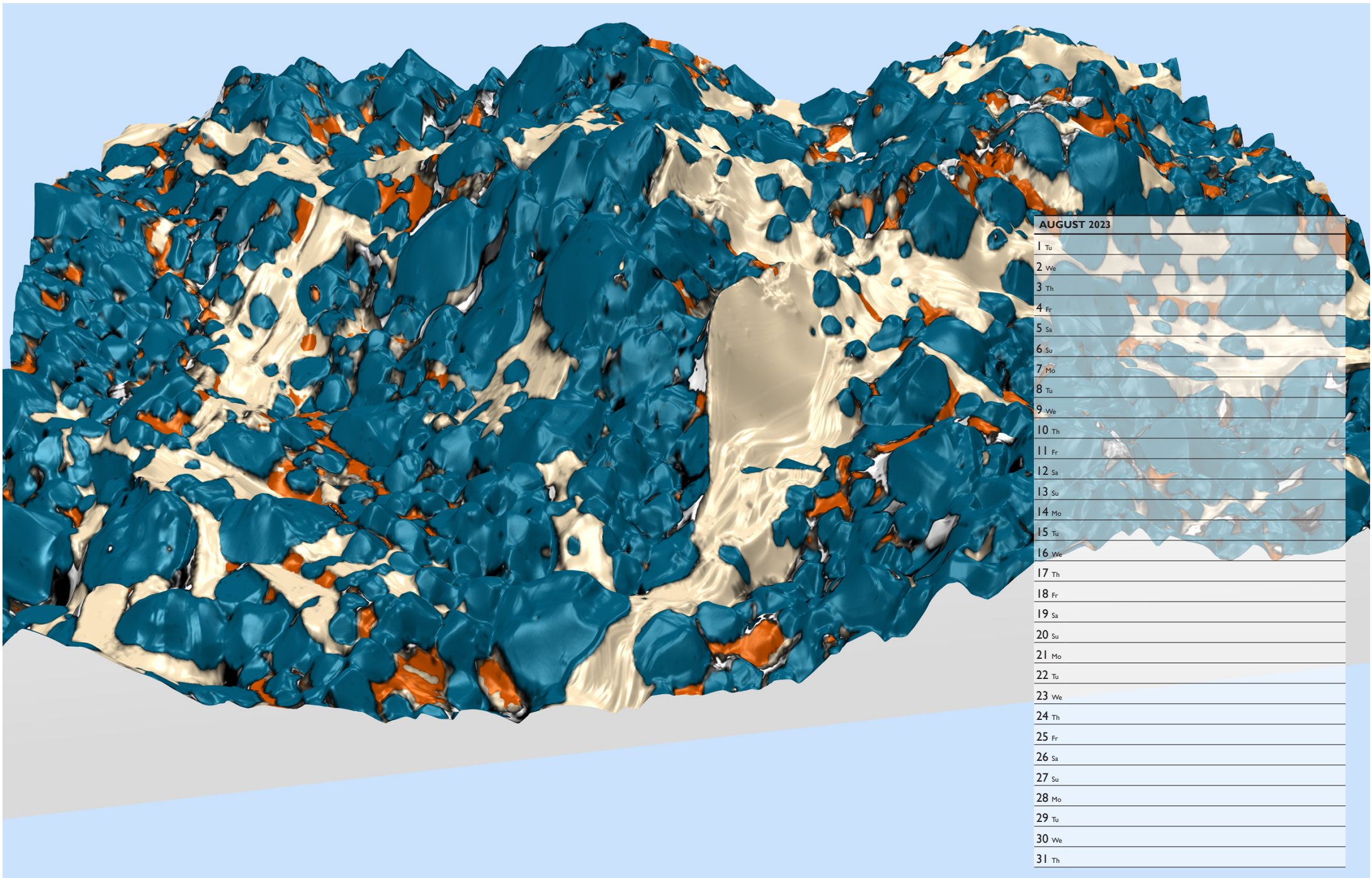
Dendrite of a pyramidal nerve cell from cerebral cortex surrounded by a glial network. On numerous drumstick-like dendritic spines, red-marked synaptic contacts are visible. Synapses are sites of electrochemical transmission of information signals and together with dendritic spines represent important structures for learning and memory formation. The image is a 3D reconstruction resulted from serial electron microscopy. Scale cube = 0.1 μm per side. Equipment Used: computer-aided serial electron microscopy. *Josef Spacek, emeritus professor of pathology, Charles University Hospital, Hradec Kralove, Czechia*



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Chemical Flower

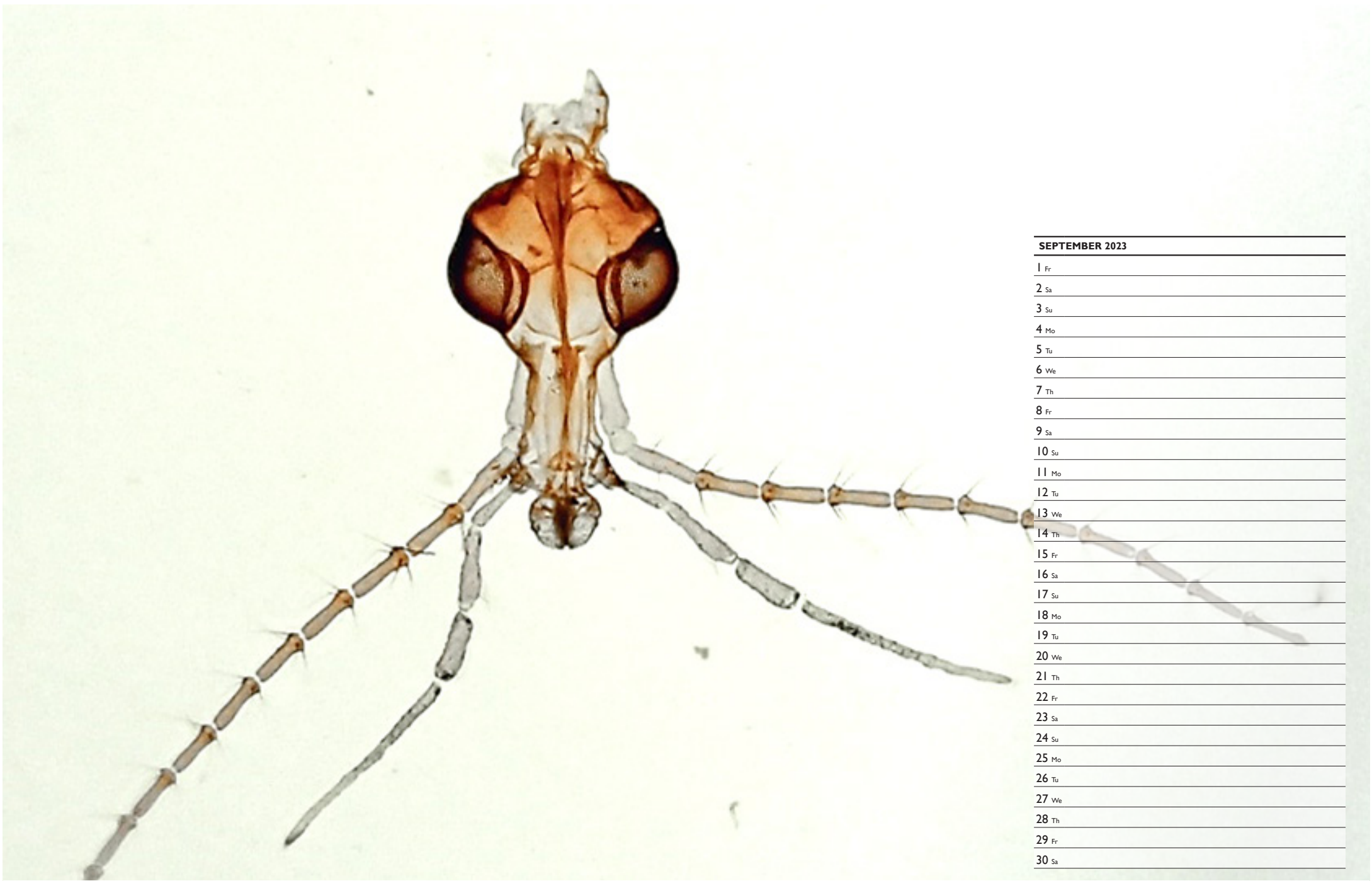
A chemical cocktail smeared on a glass slide self-assembles into a large number of convective cells. Within each cell there is a point called a nucleation site from which crystallization occurs via self assembly. This is a close up of one of the cells. The crystalline film itself is colourless and translucent to the unaided eye, however, when viewed through polarised light and using a retarder, an exquisite floral-like formation is revealed. The cocktail consists primarily of ammonium iron sulphate. Equipment Used: Olympus BX51. *Karl Gaff, Art of Science Photography*



Mountain Valleys

3D model of surface topography with an overlay of chemical composition on a Cobaltite sample generated with MountainsSpectral® software. Equipment Used: JEOL SEM IT700HR and JEOL EDS system + SMILEVIEW™ Map software powered by Mountains®. Digital Surf in collaboration with JEOL (France). Sample courtesy of Emmanuel Guilmeau (CRISMAT) and Jean-Claude Ménard (JEOL France)



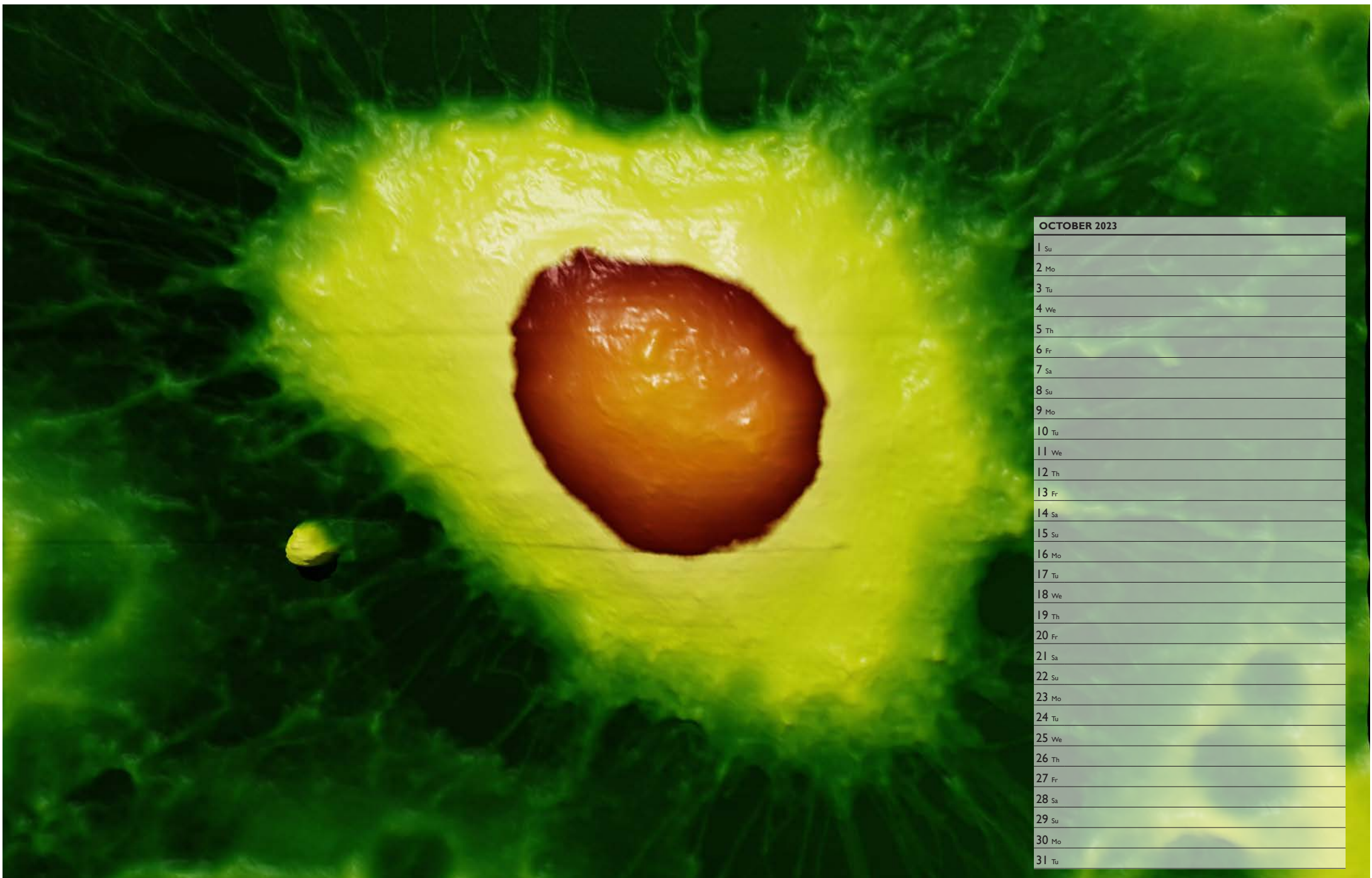


| SEPTEMBER 2023 | |
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Head of cranefly

Antique slide, gifted to the Royal Microscopical Society in 2022. Imaged under a folding, Swift microscope, which dates back to the early 20th Century

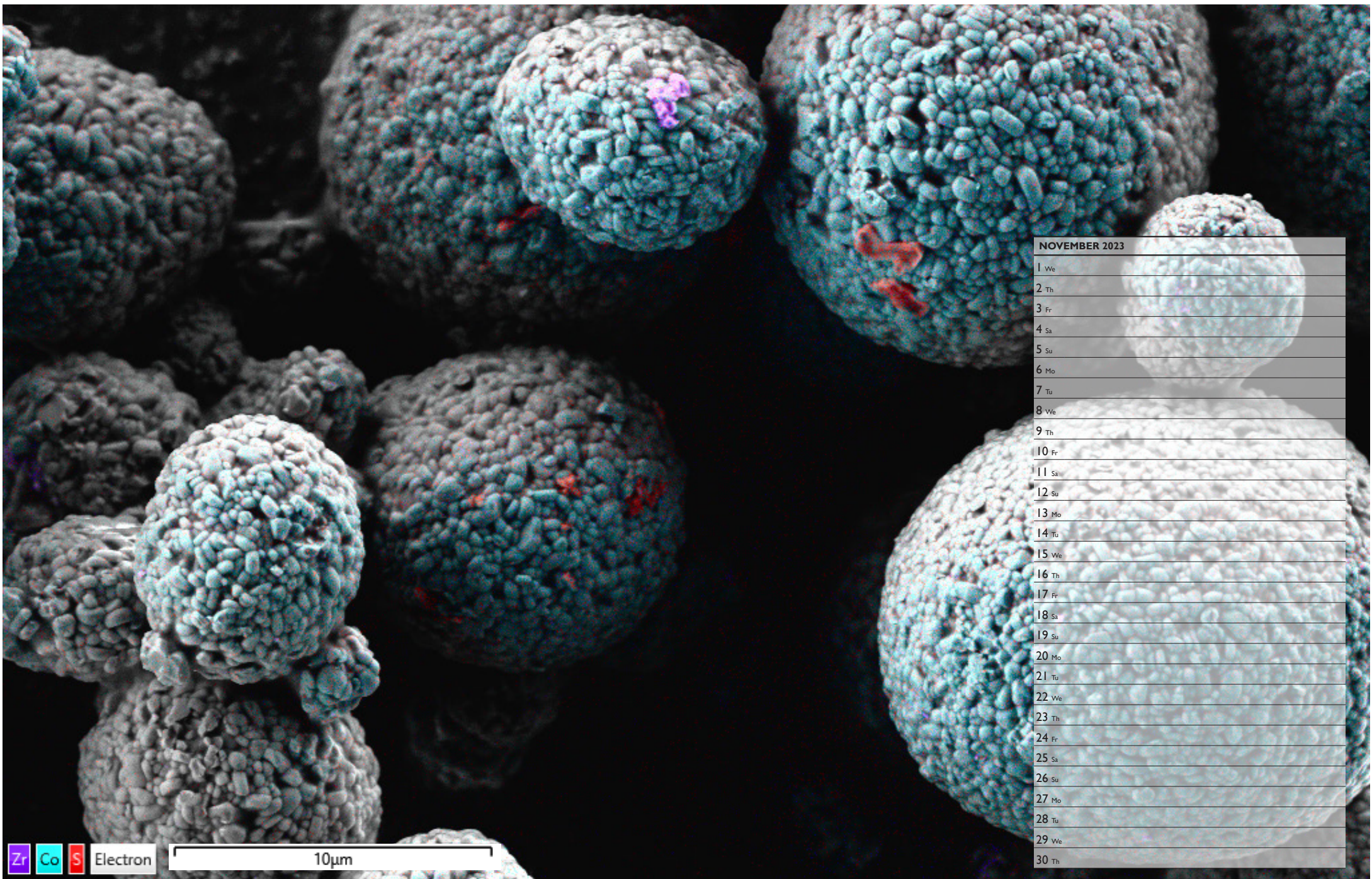
John Hutchison



Avocado dream

A metastasis cancer cell topography in 3D. Studying the morphology and mechanical properties of the cells can help find effective ways of targeting for precise drug delivery. The height of the surface was colour-coded in shades of green, with the topmost part being cut off by brown. All colours were sampled from a picture of a yummy avocado. Equipment Used: LiteScope AFM-in-SEM

Radek Dao, NenoVision. Image Credit: Marco Cassani, St. Ann's University Hospital Brno, Czech Republic

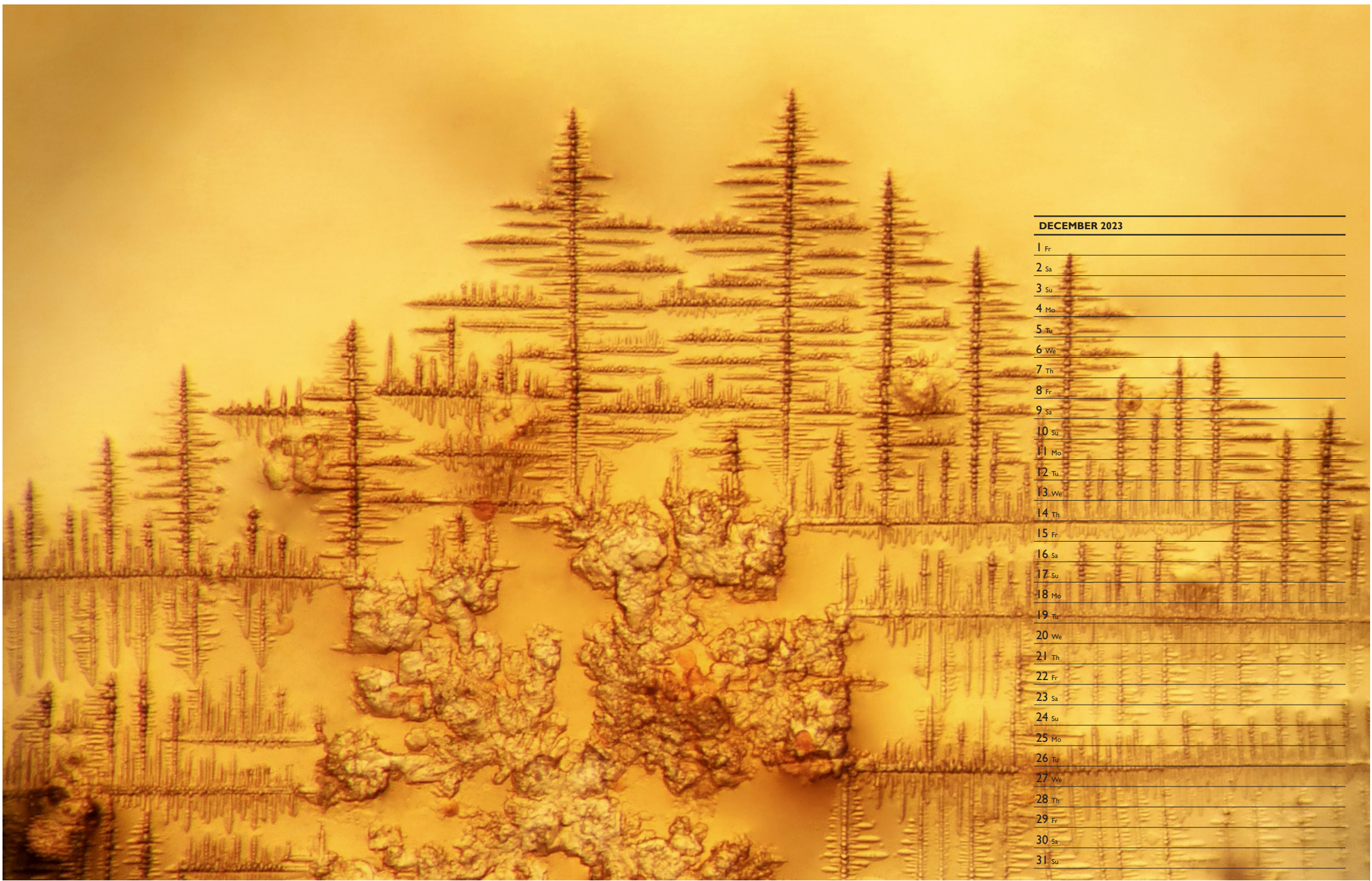


NMC811 battery electrode precursor powder

SEM-EDS chemical analysis of battery electrode precursor powder. Equipment Used: Gemini 460 and Oxford Instruments Ultim Extreme windowless EDS detector

Dr Lucia Spasevski. Image Credit: Lucia Spasevski and Alexandra Stavropoulou





An Enchanted Forest

Soy sauce crystals in incandescent light, magnified 25x. Equipment Used: TriTech dissecting stereo-microscope with Lumix DMC-ZS60 camera
Revital Katznelson, Environmental Scientist