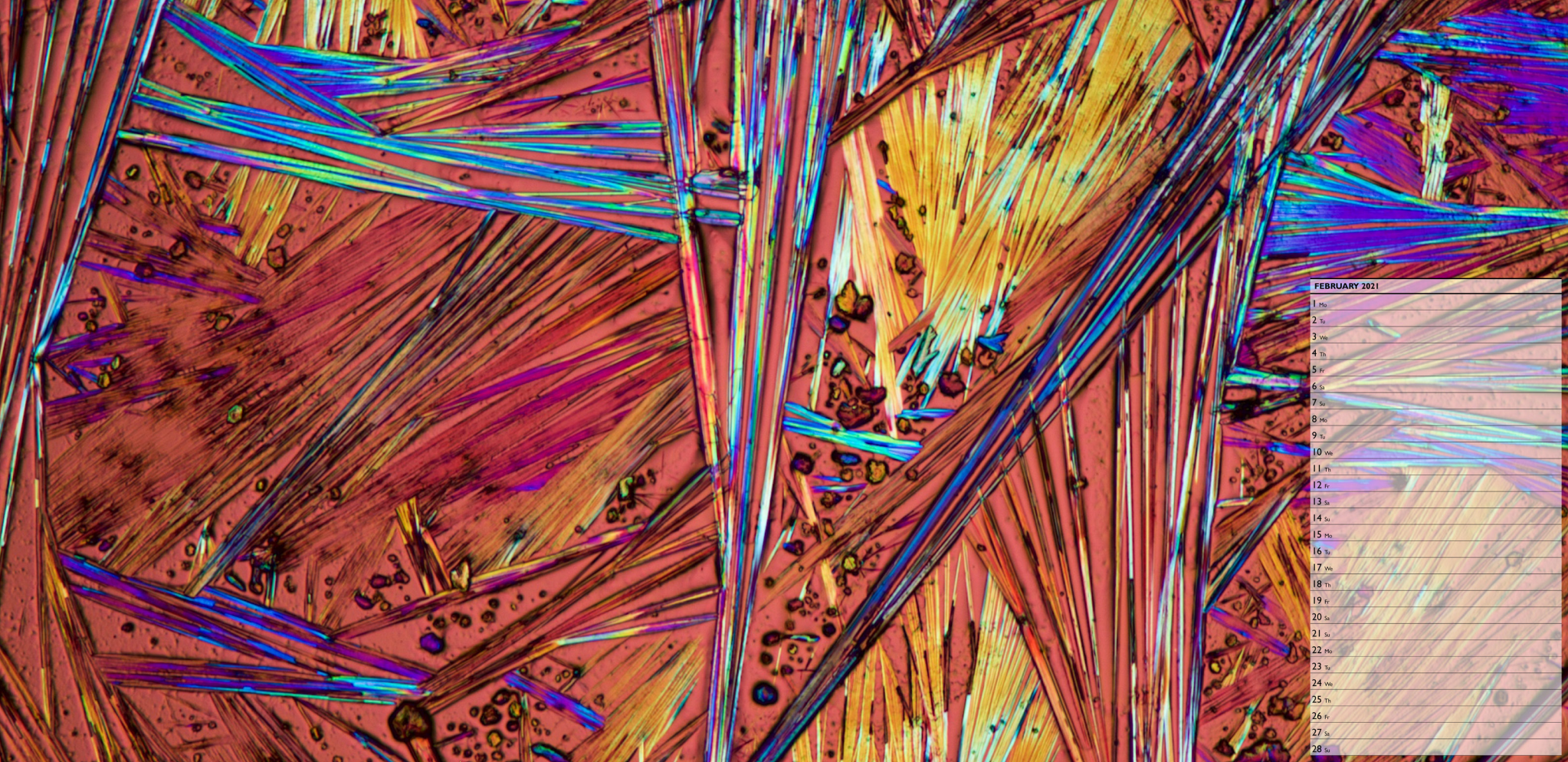
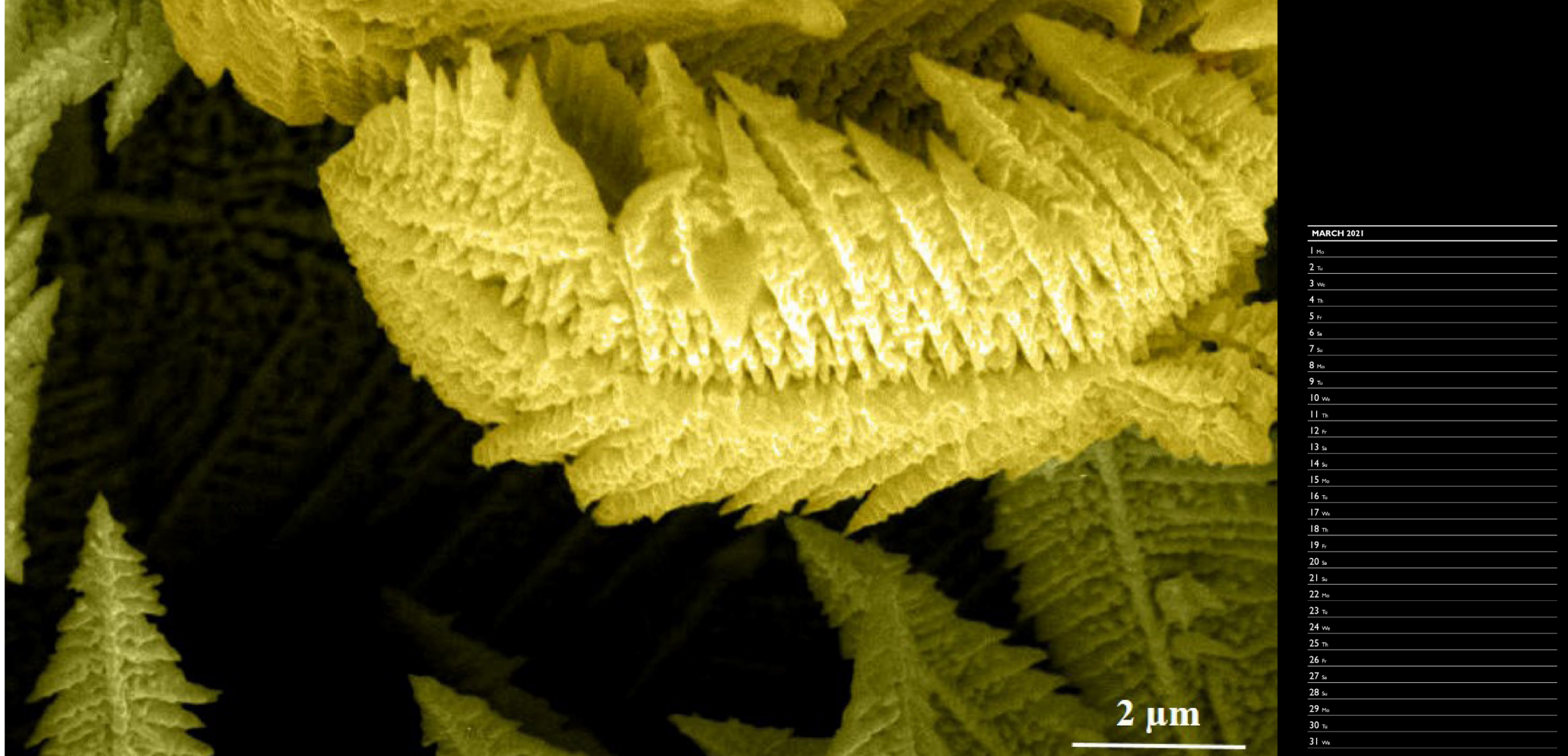


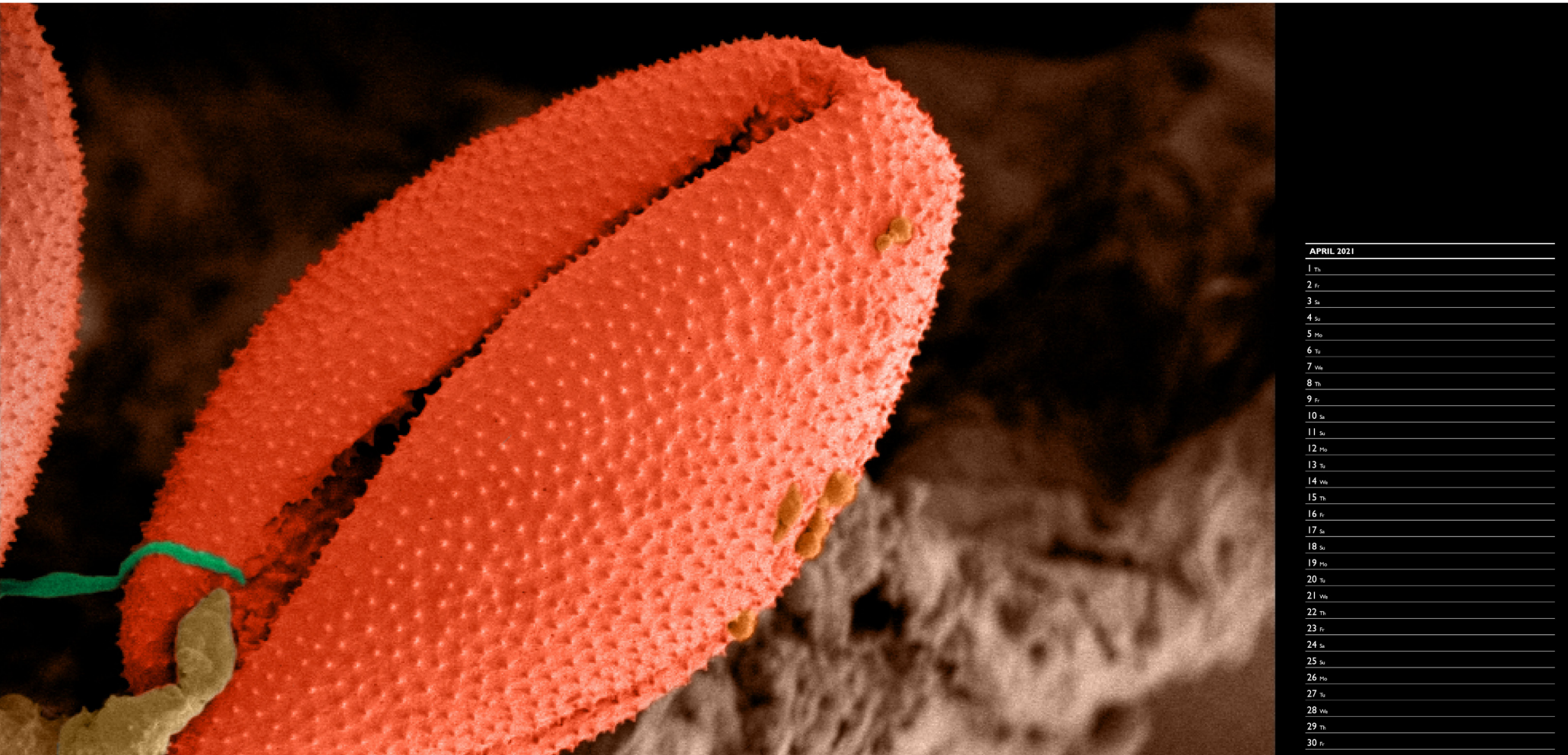
Sea urchin (*Paracentrotus lividus*) collected in Aegean sea near Athens, Greece
The sockets on the right are where the urchins long spines are attached. The element map (HOTS x 3072 pixels, 0.42 µm pixel size) was acquired with an annular Bruker XFlash® FluQUAD SDO at 6 kV for 51sec, without sample preparation. (Annular Bruker XFlash® FluQUAD silicon drift detector)
Mark Resseltke, Bruker Nano Analytics



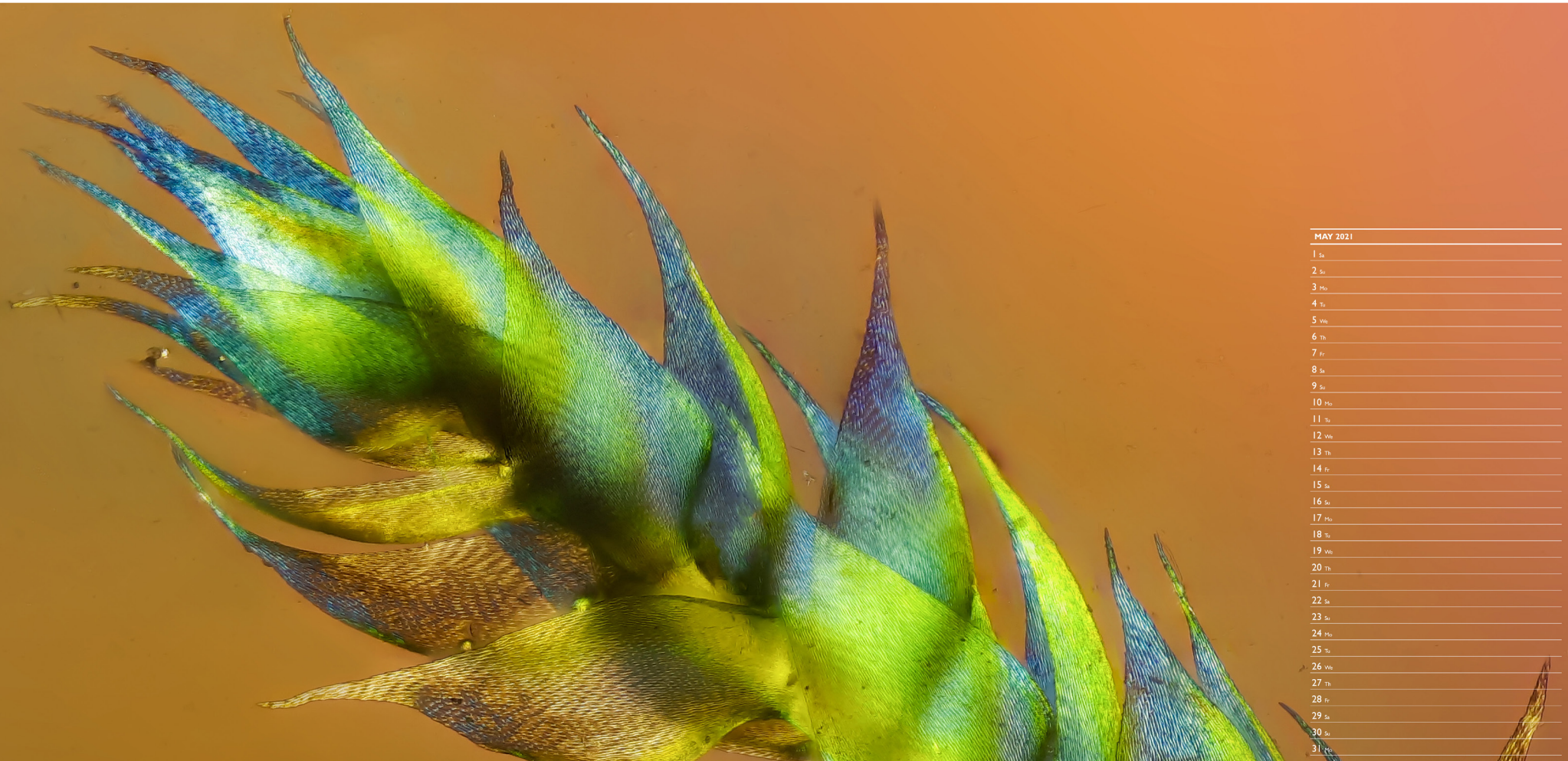
To keep you awake
Polarized light photomicrograph of a drop of solution of caffeine and hot water, left to dry on a glass slide. The needles are crystals of caffeine precipitated from the solution. Width 1.3 mm. (Nikon DS500 on Zeiss Axiophot 40p. Crossed polarizers and lambda/4 plate)
Bernie Coats, Geoscience, University of Peterborough



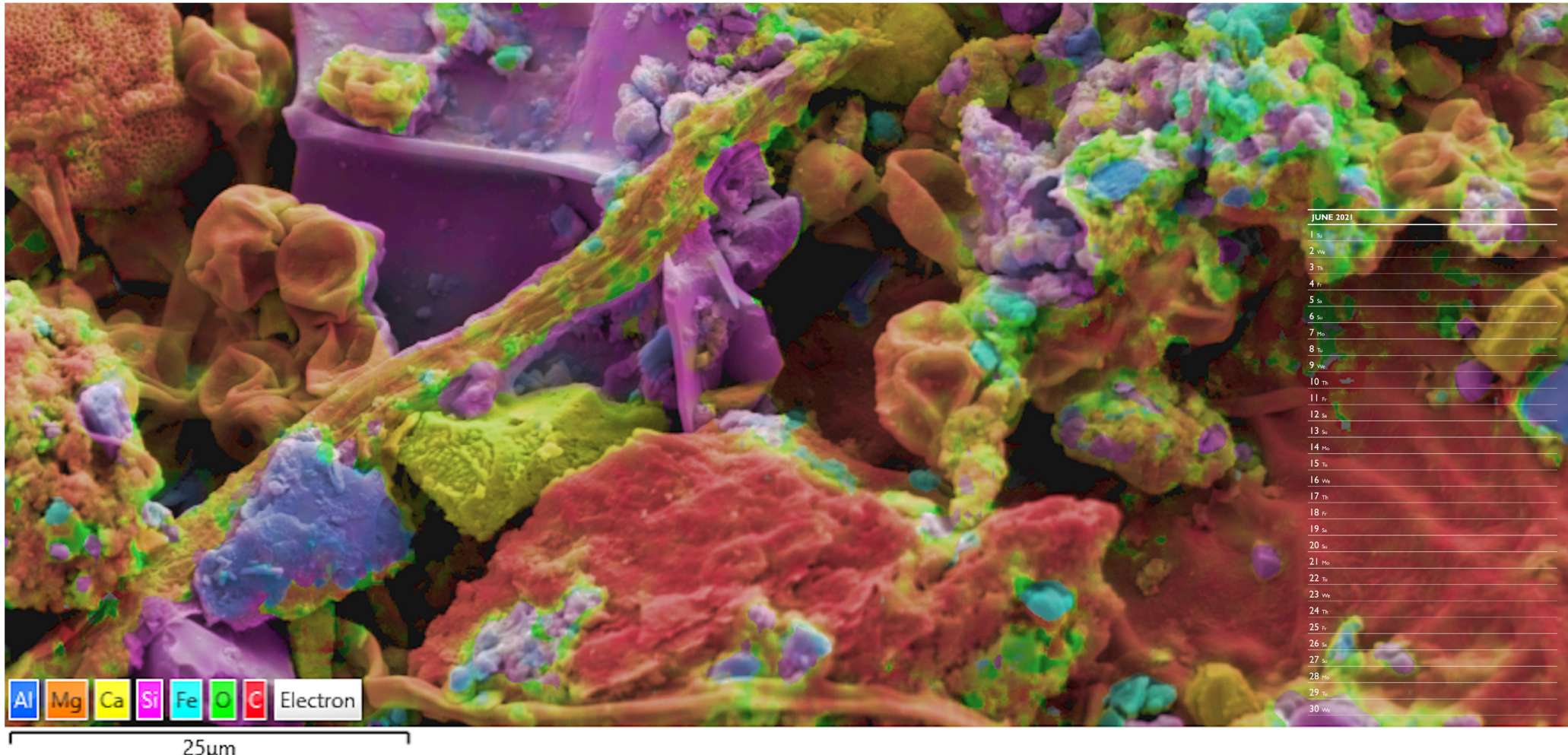
Gold Dendritic Nanostructure
Gold dendritic nanostructures have grown on the paper fibers by an electrodeposition process. The prepared paper modified by Au dendrites has been used as an efficient electrode for the non-enzymatic oxidation of glucose. (TESCAN Vega3)
Gina Rodriguez, Shree Nirmal University



Walrus Pecten, Coloured
Pecten given inside slabs of Pecten Naticula Island Pecten (Pifachi SUR320 Ultra High-resolution FEM Emission Scanning Electron Microscope (FE-SEM), with a PPFD10 cryo-preparation chamber (Quorum Technologies, Laughton, UK))
Mark Taylor, Quorum Technologies



Spring of moss *Cephaelis pinnatifida*
This moss has thick cell walls that are birefringent. Therefore, it is well suited for shooting in polarized light. When using polarizing filters and a retardation plate, the petals start to sparkle in different colours (Biolin R-11 microscope, smartphone camera)
Andri Samay



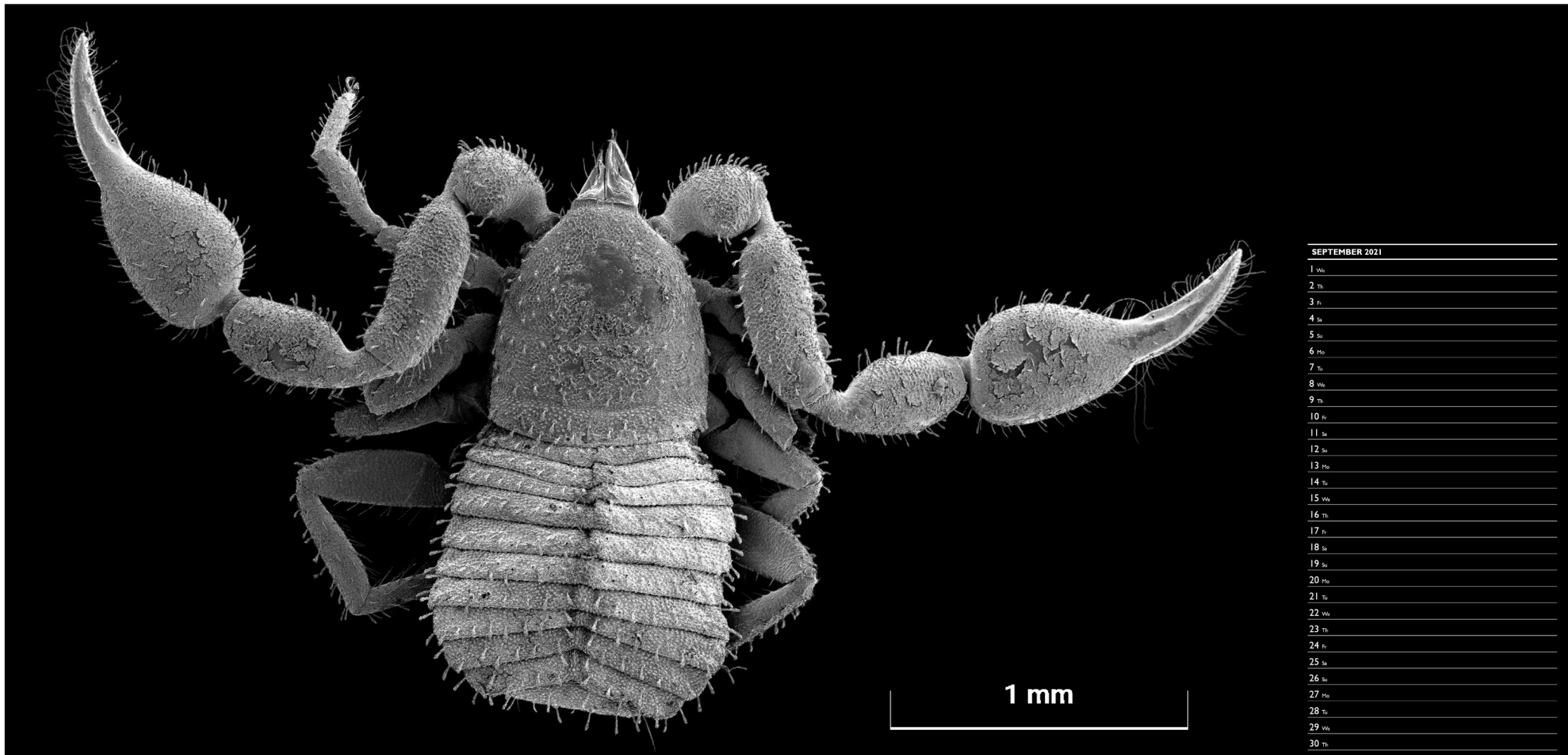
Airborne: Ilex l.
Pollen particles on the surface of a leafy bud. The image was collected using Energy Dispersive X-ray Spectrometry to isolate elements of Aluminium, Magnesium, Calcium, Iron, Oxygen and Carbon. From a collaborative art and science project exploring air pollution on leaves with Rob Kesseler and Louise Haghighi
(Oxford Energy EDS detector mounted onto a Tescan's 3000 EDS stage were triggered over the BSE image using A2Zee (version 4.1, Oxford Instruments))
Rob Kesseler, Central Saint Martins, University of the Arts, London & Louise Haghighi, Oxford Instruments



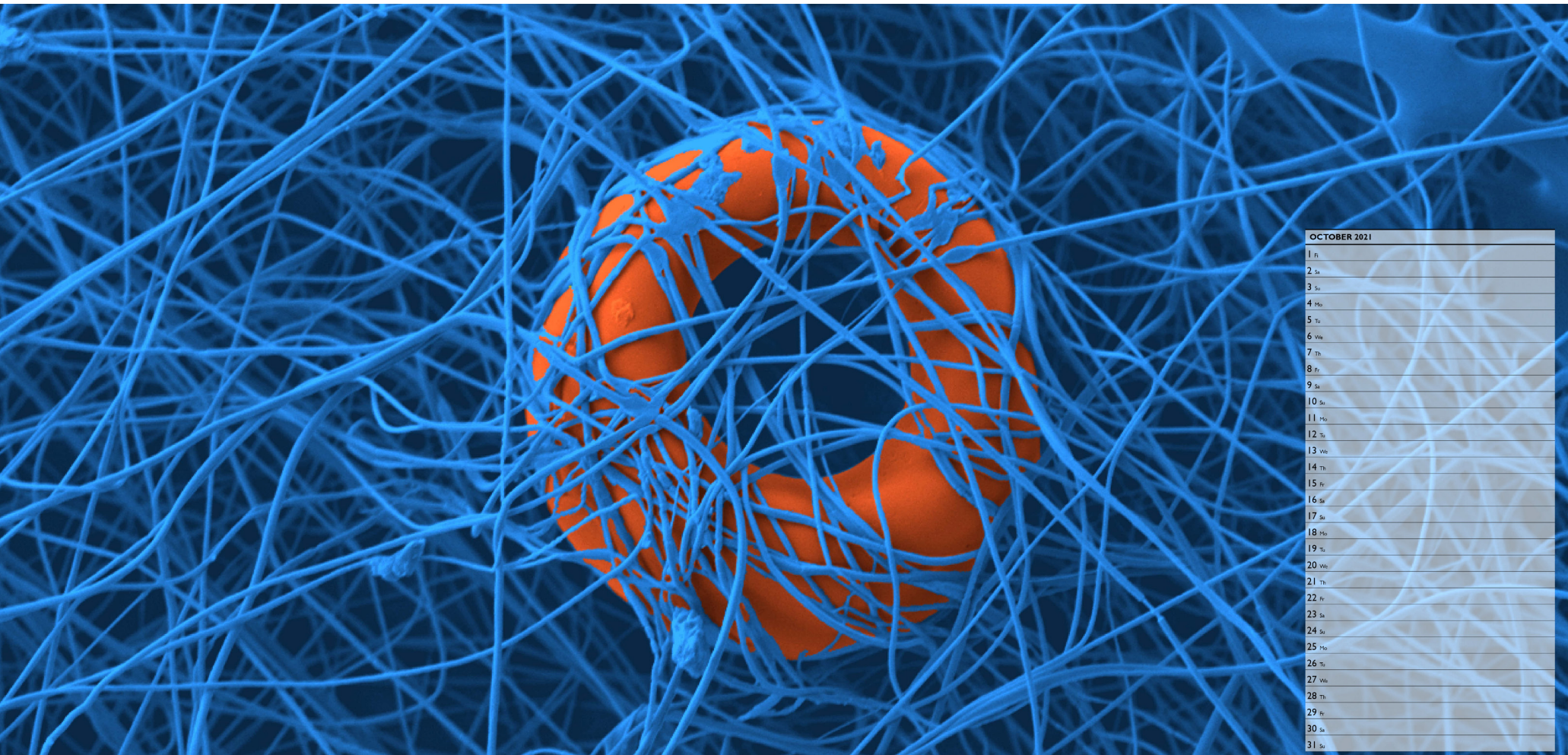
Mite-like shrimp
Image of a blood platelet enlarged in the minute crustacean Dendrobaena remane, using the endogenous fluorescence signal of cuticle and internal tissue (STELLARIS confocal microscope, Leica Microsystems)
Dr Albert Frisch, Leica Microsystems GmbH



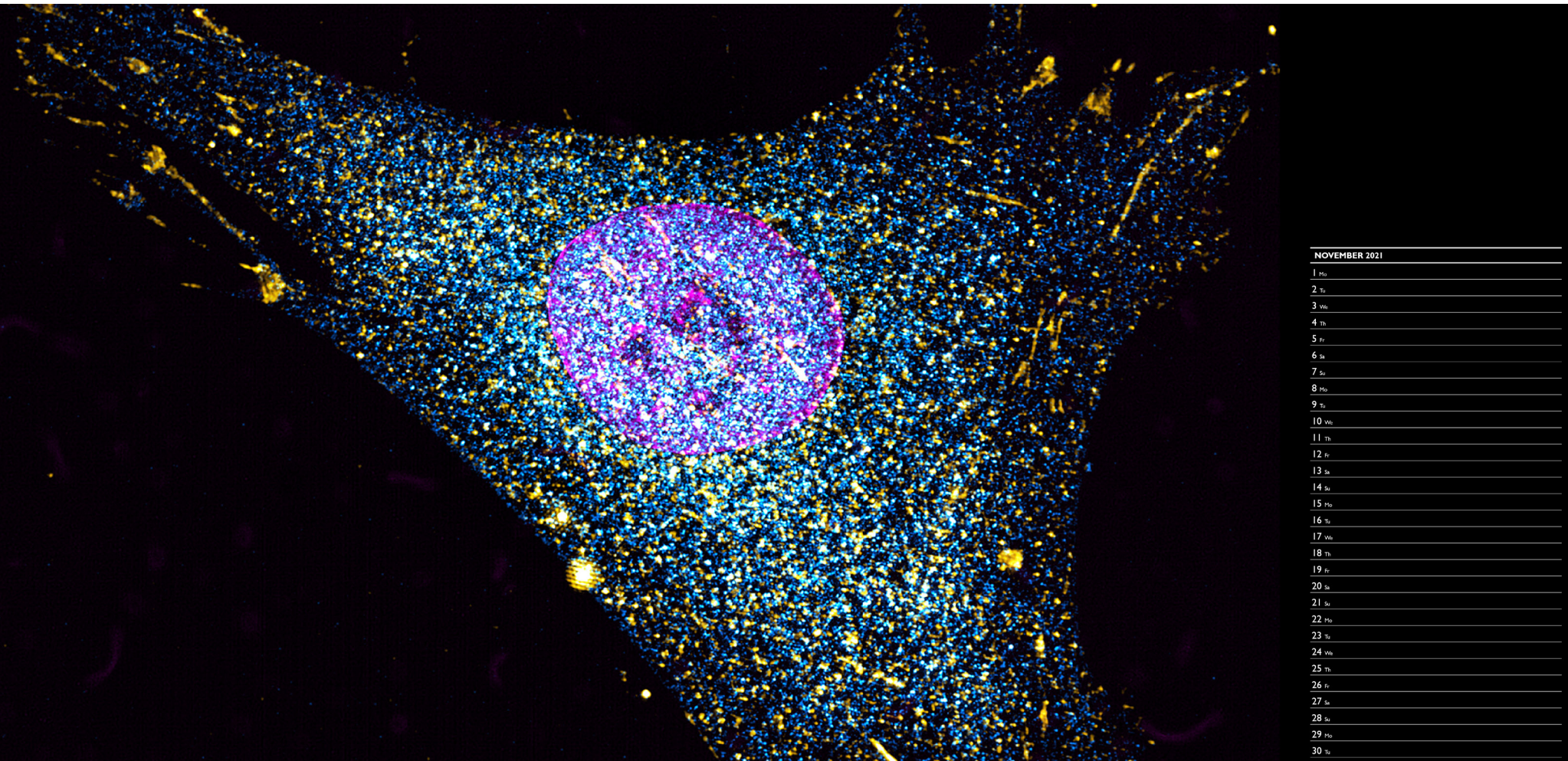
A Fossilized Starfish!
Revealing a fossil of an ancient sea star called Ophiocoma lufuensis from the Jurassic period, this is in fact an image of a thin crystalline film of an anti-inflammatory medication imaged in compressed polarized light microscopy (Olympus BX-51) with Sony A7R II mounted on the trinocular port)
Karl Gottfrit, DUKO



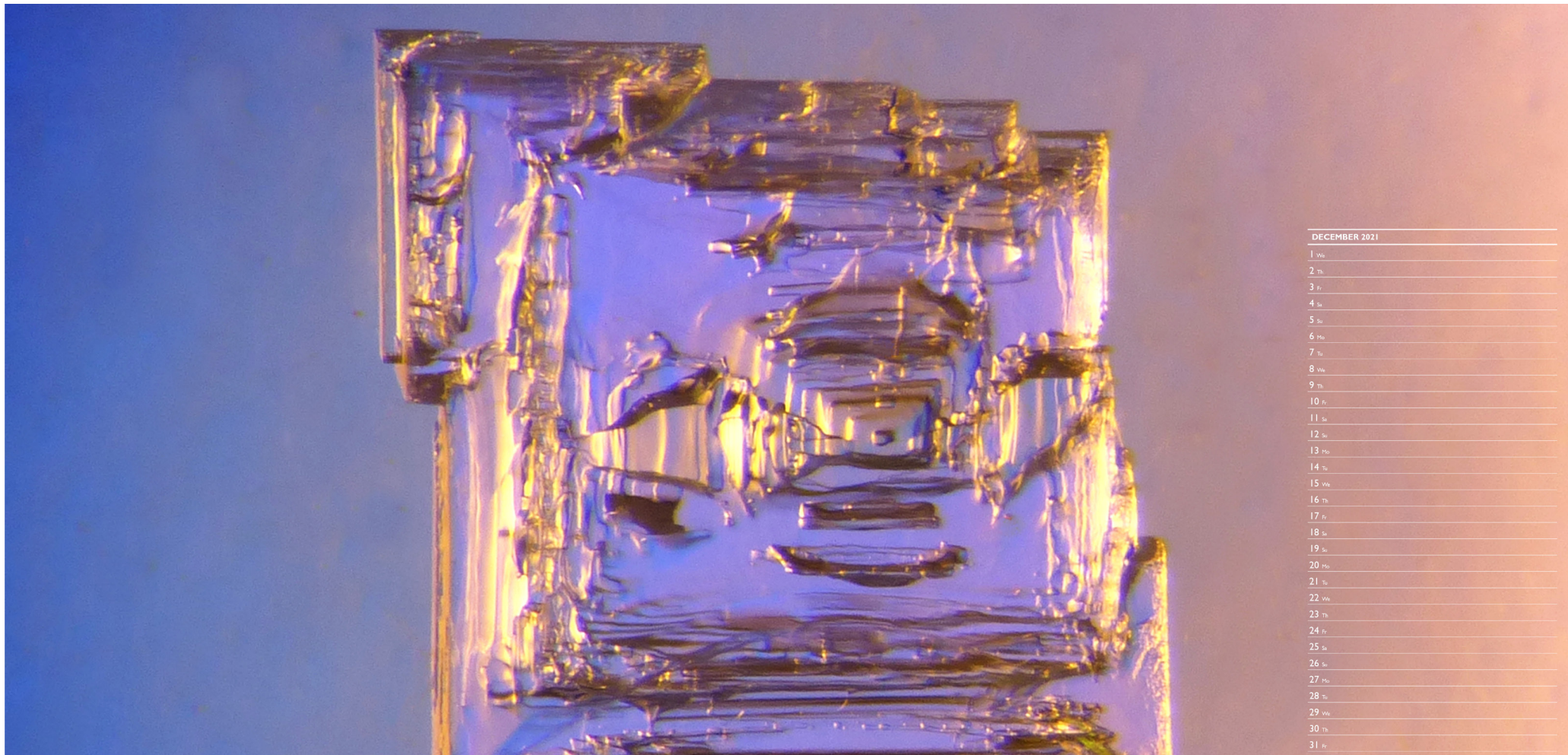
Pseudoscorpion *Chernes cinereus*
Despite their appearance, these tiny creatures are perfectly harmless to humans, being minus the stinging tail of the true scorpions. They are common in the UK but under-reported on account of their small size (TESCAN MIRA 4 SEM, using the secondary electron detector in Depth Mode Background mode) and can be moved using Adobe Photoshop)
Jeremy Poole



Stretched Cell
Sieve cell isolated for local adhesion points (in yellow) and a specific receptor (in blue), plus nuclear staining (in magenta) (Zeiss Elyra PS1 Super-resolution microscope)
Liesbeth Langendoorn, University of Glasgow



Crystal of low-sodium salt (sodium-potassium chloride), magnified 25x
Revised Katzendorn



Crystal of low-sodium salt (sodium-potassium chloride), magnified 25x
Revised Katzendorn

