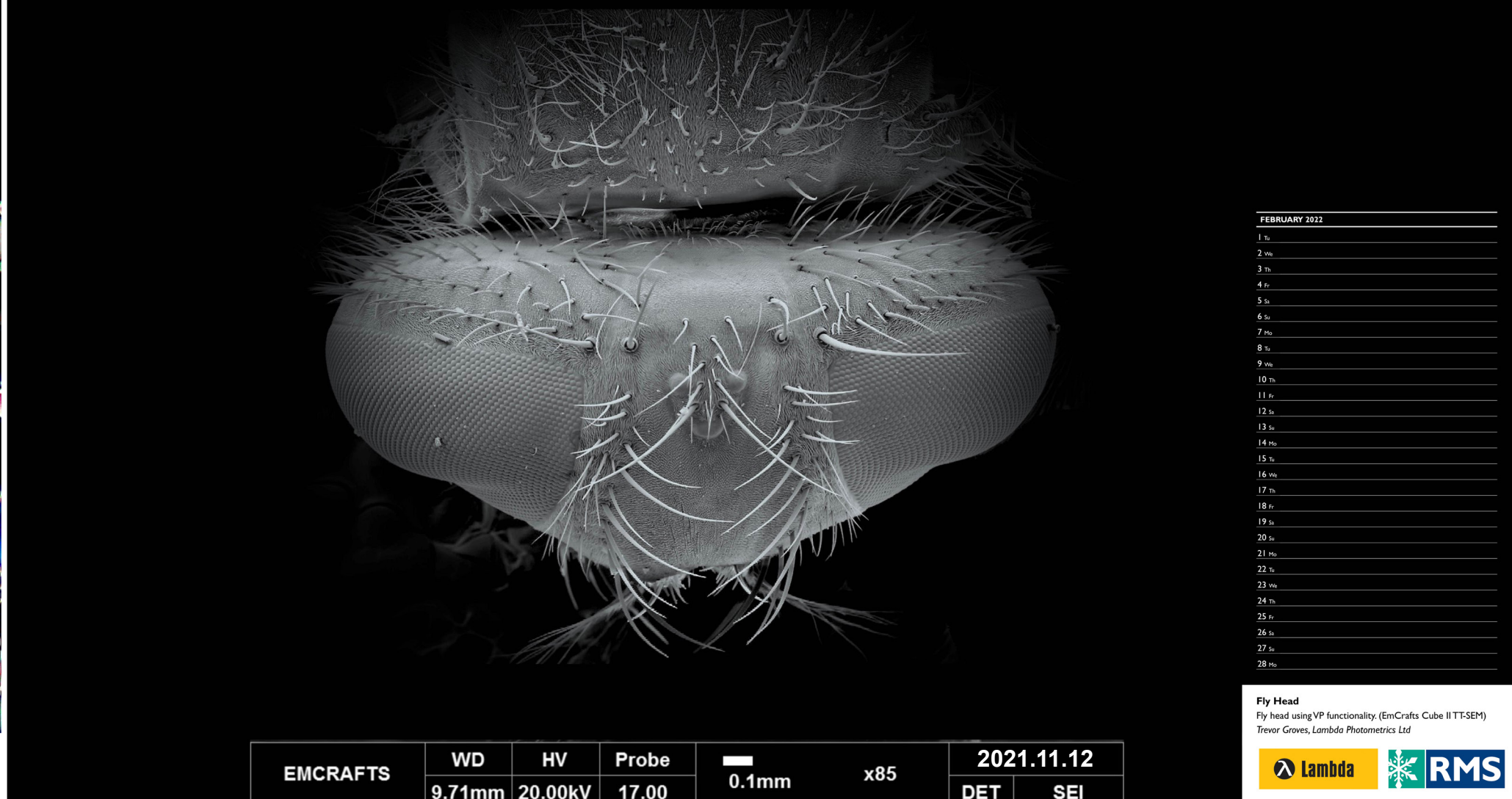
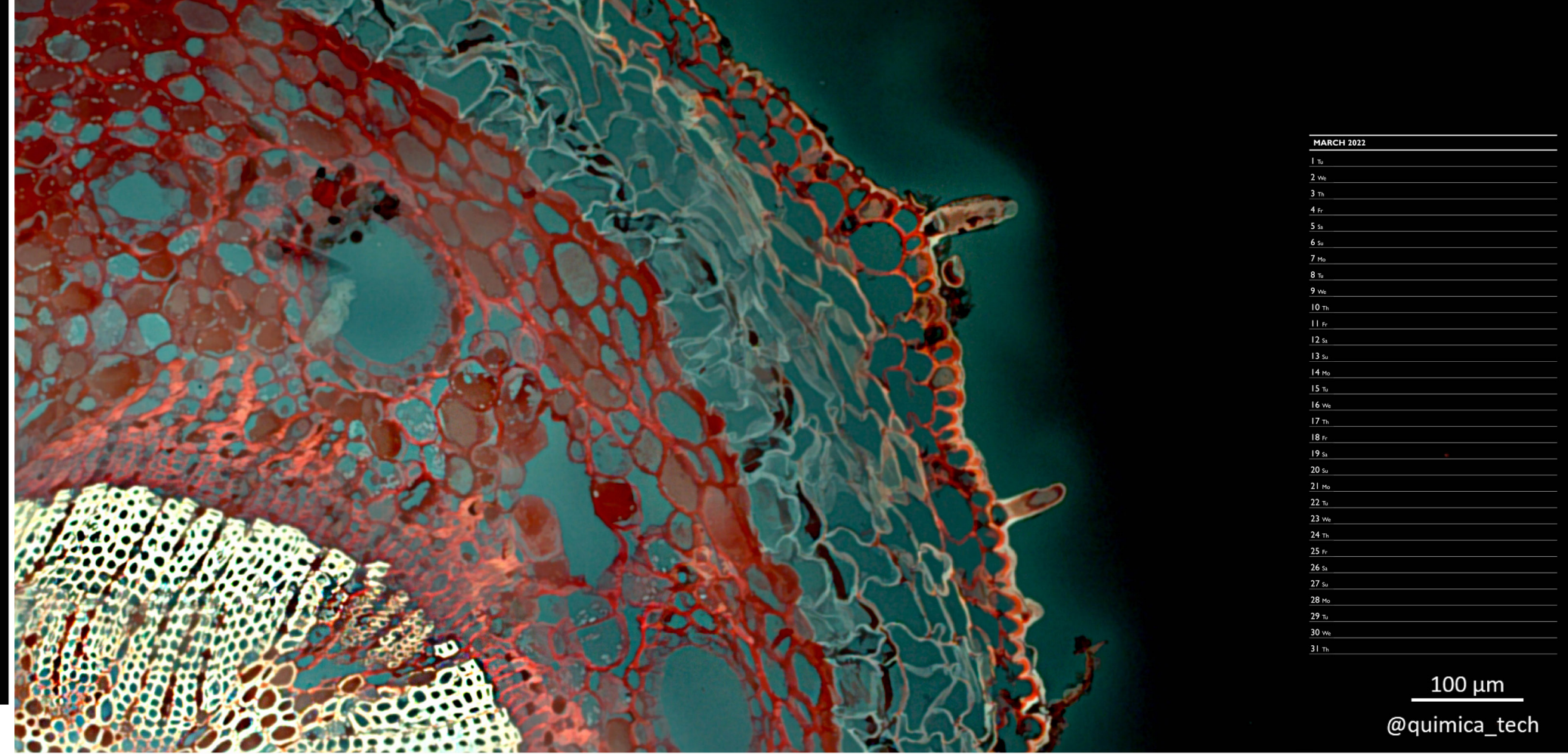


Crystals of Urea
Photo from a prepared Biost slide, viewed under transmitted polarised light, (Wilder PDS Research Microscope with a x6 plain fluorite objective. Camera used Canon EOS 450D)
Michael A. Gibson, Northumbria Natural History Society & the Quorum Microscopical Club

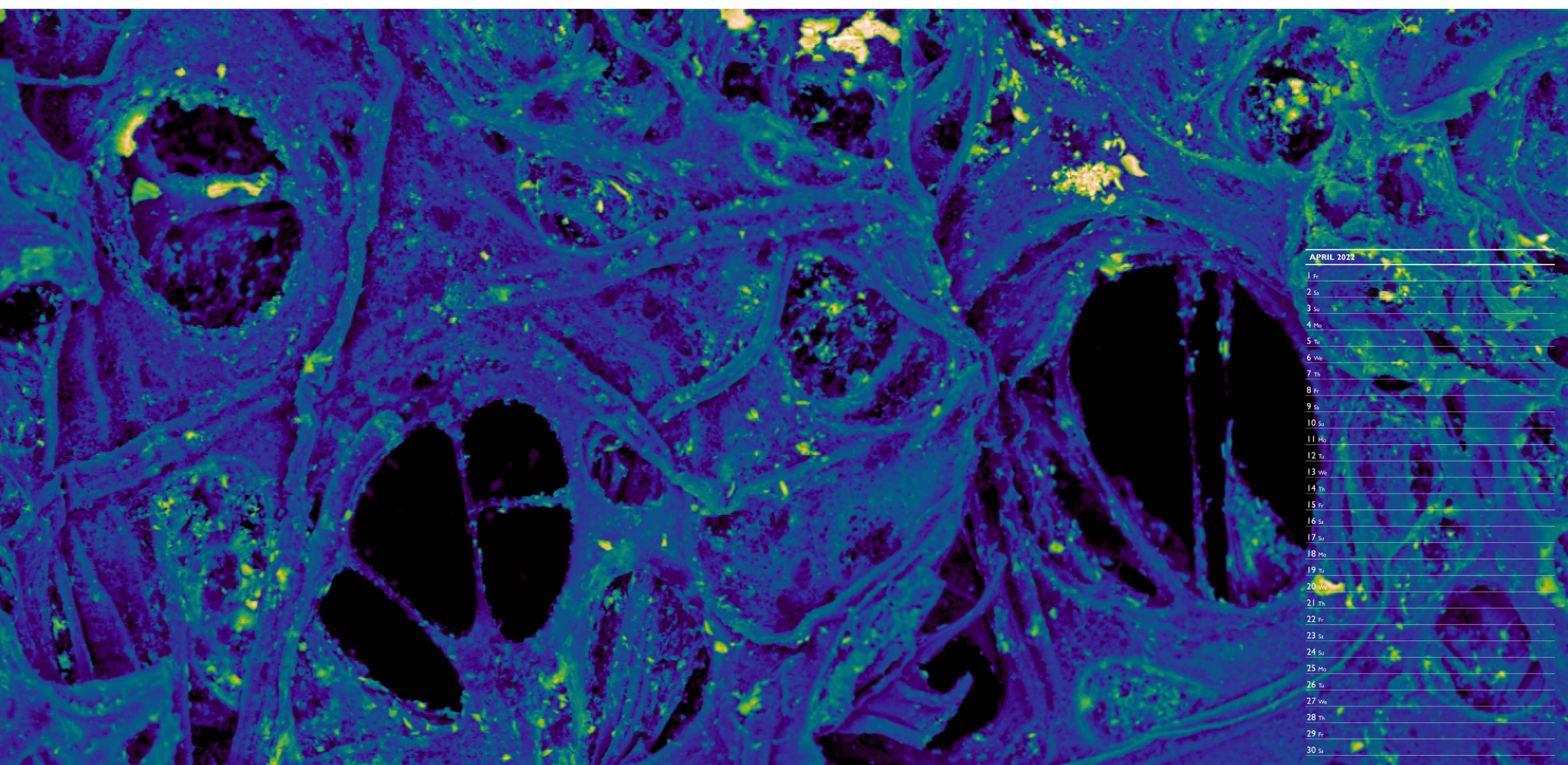


| EMCRAFTS | WD | HV | Probe | | | 2021.11.12 |
|----------|--------|---------|-------|-------|-----|------------|
| | 9.74mm | 20.00kV | 17.00 | 0.1mm | x85 | DET SEI |

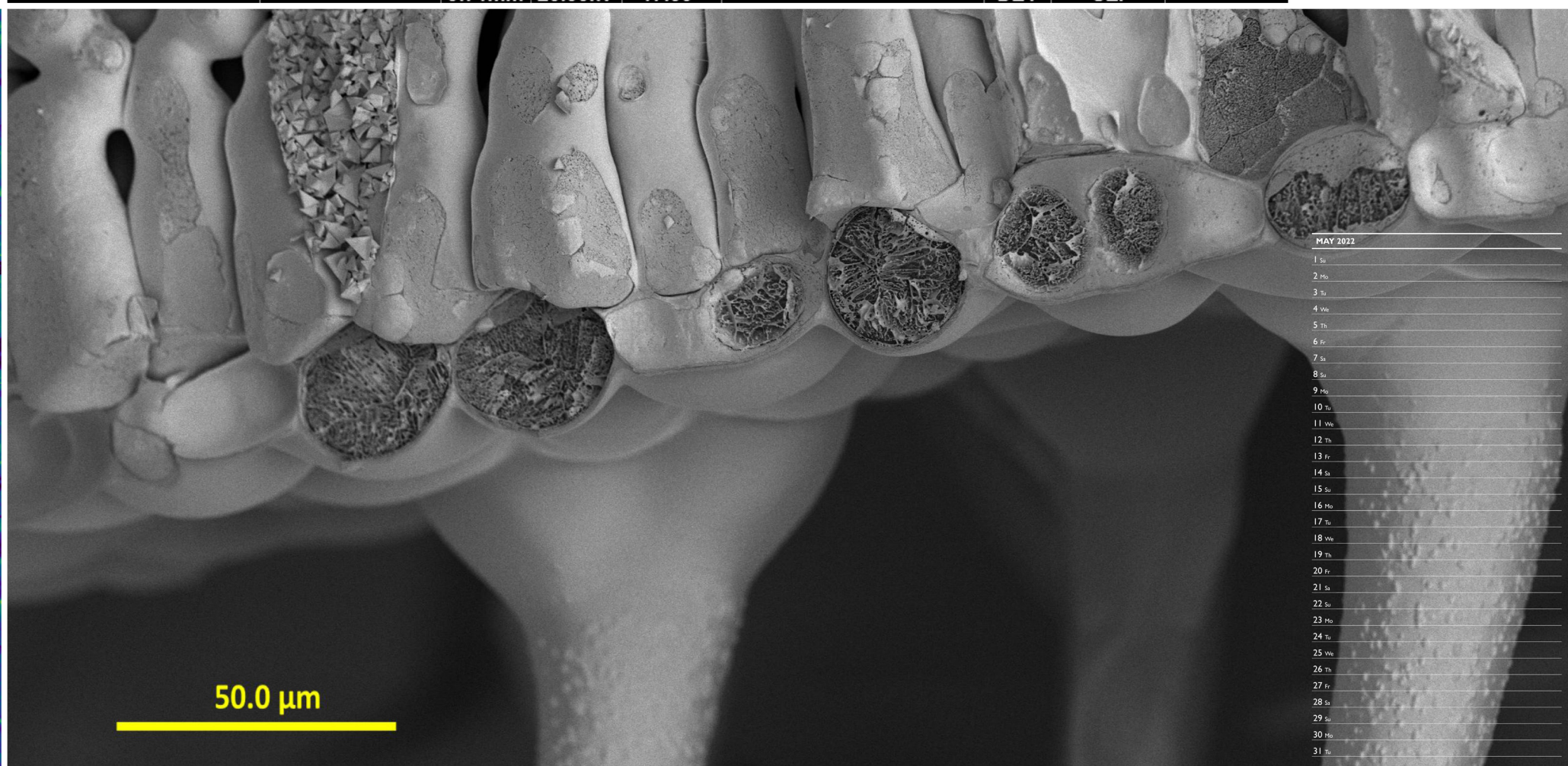
Fly Head
Fly head using VP Anisotropy (EmCrafts Cube ITT1885)
Ivor Corrie, Lambda Fluorescence Ltd



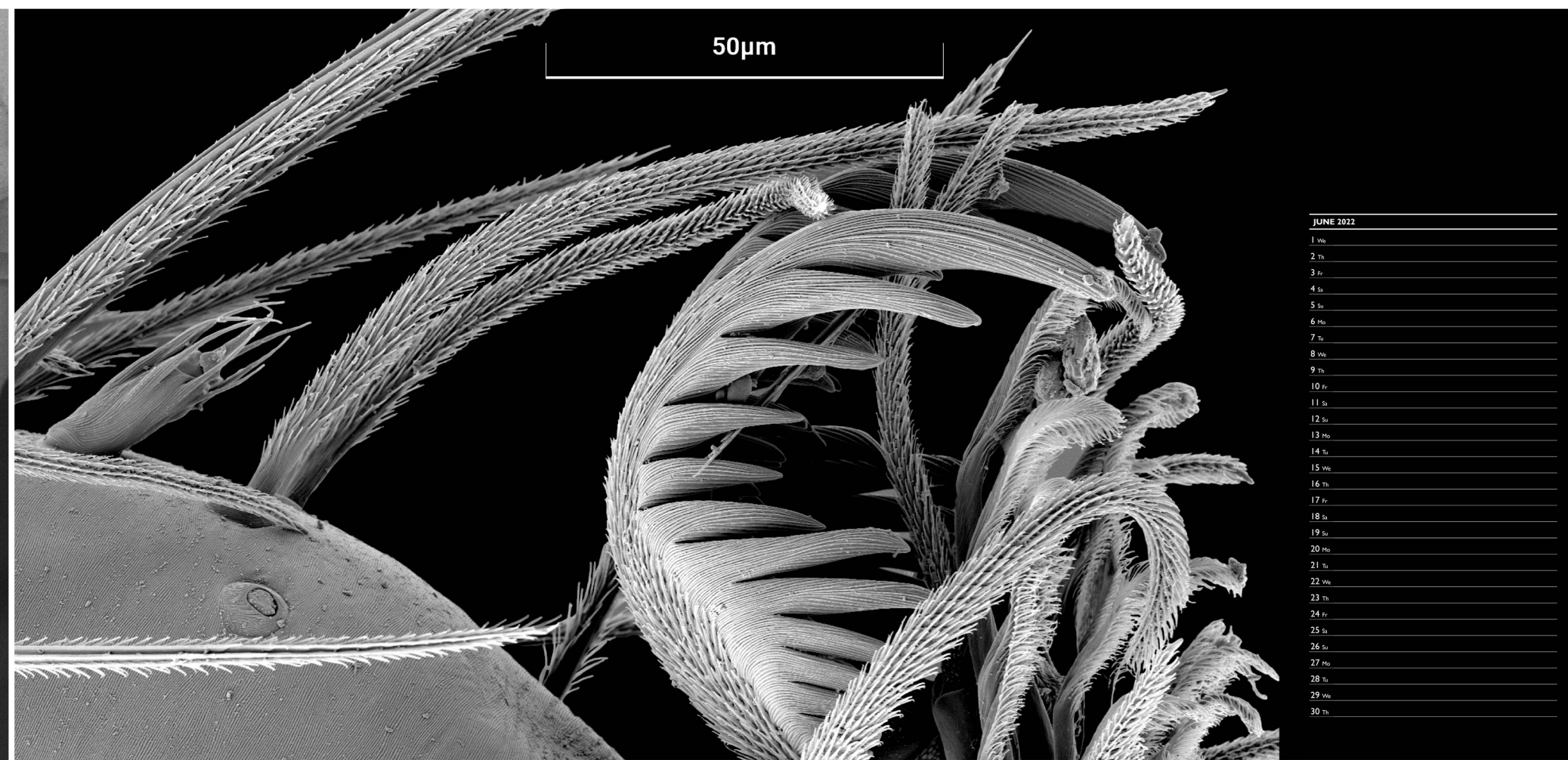
Pine Stem
This is a 2-Stack of 3 images of a Pine Stem in fluorescence. The image represent a area of 1.4X1.05 mm. (10x/0.3 objective fluorescence filter set of Epi-400-440, BS460, Ex LP470)
Joan Manuel Hernandez Lopez, Quimica Tech



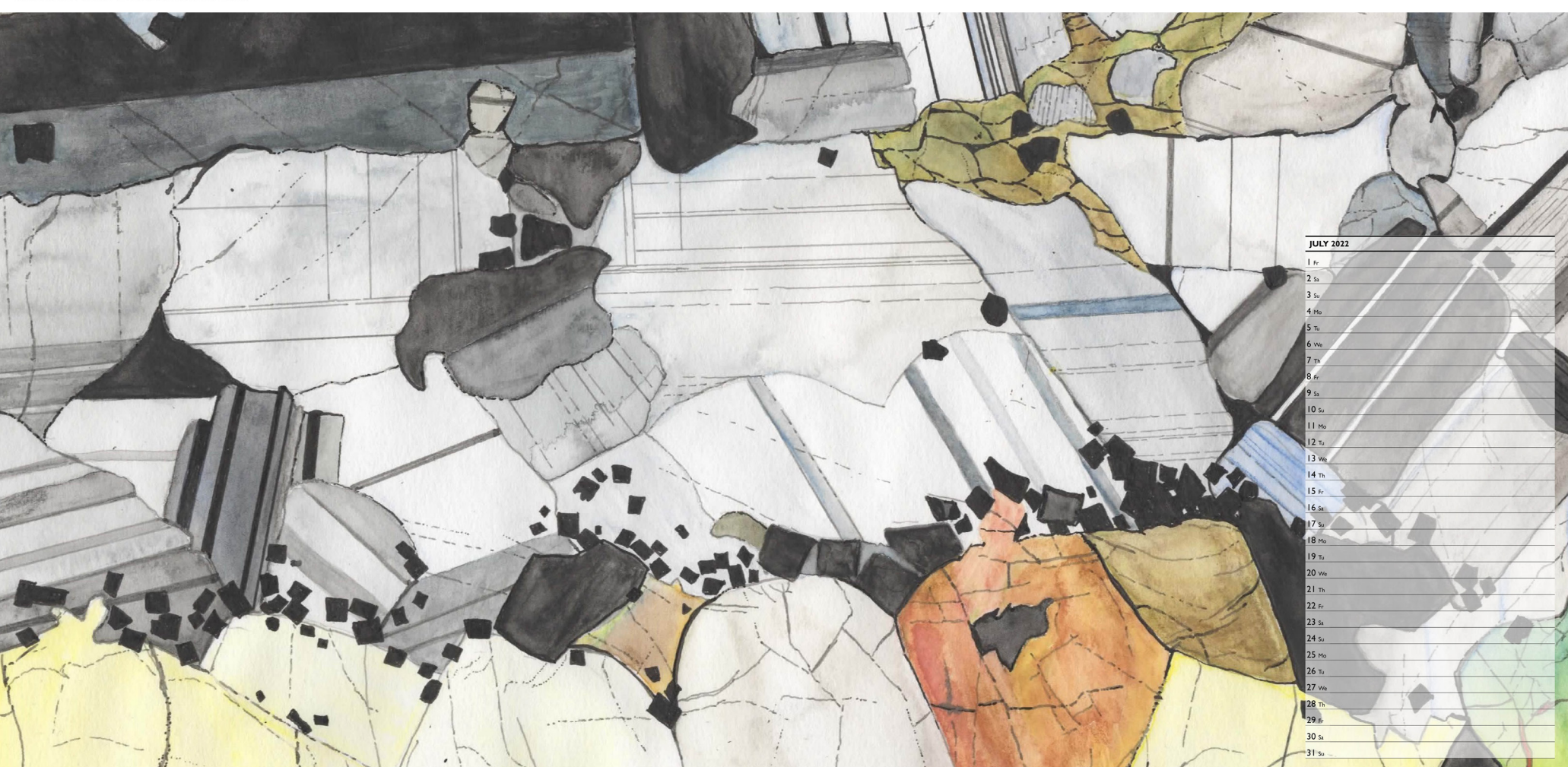
PEARL-fect Membrane
The Phosphate Elimination And Recovery Lighthouse (PEARL) membrane, a reusable nanocomposite material, can be used to selectively sequester phosphate ions from polluted waters. From this false colored scanning electron microscope image, we can see the porous and hierarchical nature of the PEARL membrane, which leads to its effective remediation performance. (PicoScan S4000 SEPI)
Stephane Robert & Vioque David, Northwestern University



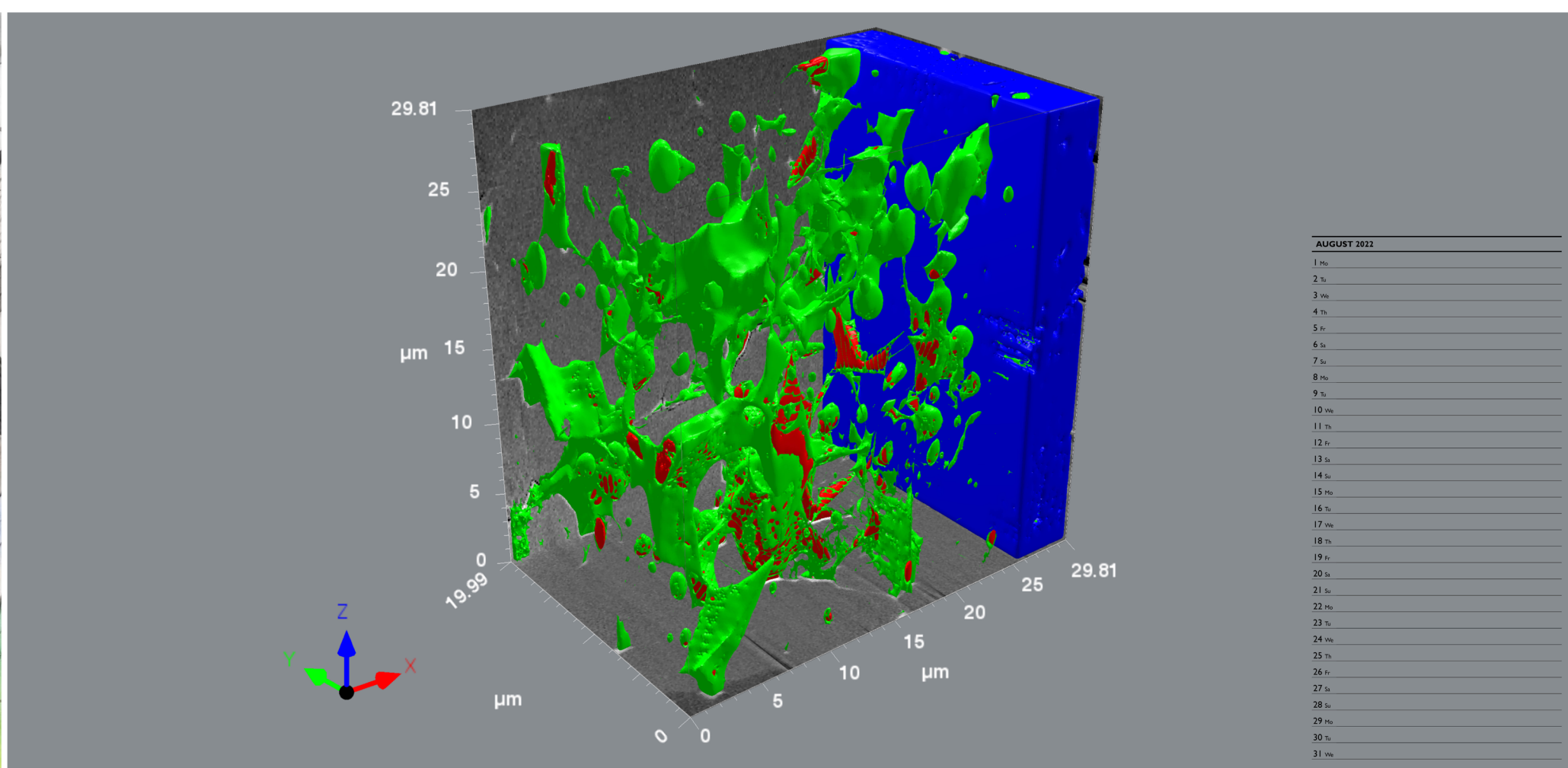
Cryo-SEM Micrograph of a Fractured Tomato Leaf (mesophyll)
Micrograph shows the inner tissue cells (parenchyma) containing the chloroplast organelle sites for photosynthesis, the upper epidermis and the trichome epidermal site cells for microbial shield and pest protection. (Hitachi SU3030 FE SEM with Quorum PP3010 prep-stage)
Dr Mark Taylor, Quorum Technologies



Tarantula Spider Chelation
This is an image of the tarsal claw (right) and tarsal organ of this newly identified species, found only in the Falkland Islands. The squid-like tarsal organ (at corner left of the image) is unique to this genus. (Taken on a TESCAN MIRA 4 SEM using the in-chamber secondary electron detector. The stub was sputter coated in gold/palladium alloy using a Quorum Q150R S coater)
Jeremy Peake, Postal Microscopical Society



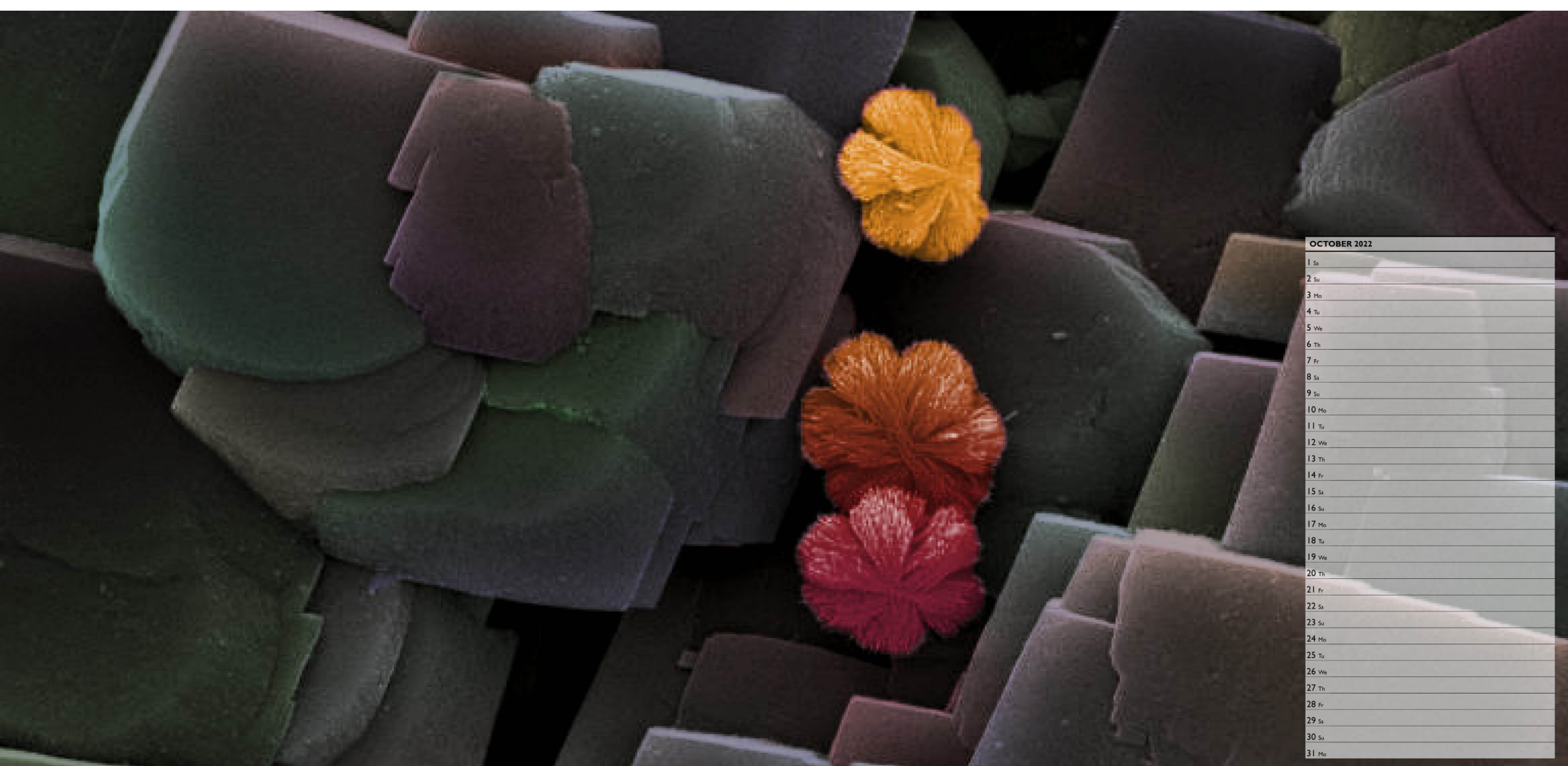
Treccia Gabbro - Isle of Rum
A watercolour and ink painting of the view down the microscope from the Eastern Layered Intrusion on the Isle of Rum, Inner Hebrides, Scotland, providing a view into the magma chamber of Rum volcano. Colourful olivine minerals dominate the base (Peridotite), with plagioclase-feldspar dominating the top (Anorthosite), with a chromite band sandwiched in between. Field of view = 4mm. (Light microscopy with thanks to the Hunterian Museum Collection at the University of Glasgow) The image was painted using watercolour and ink on watercolour paper) Pamela Campbell, University of Glasgow | www.PamelaCampbell.co.uk



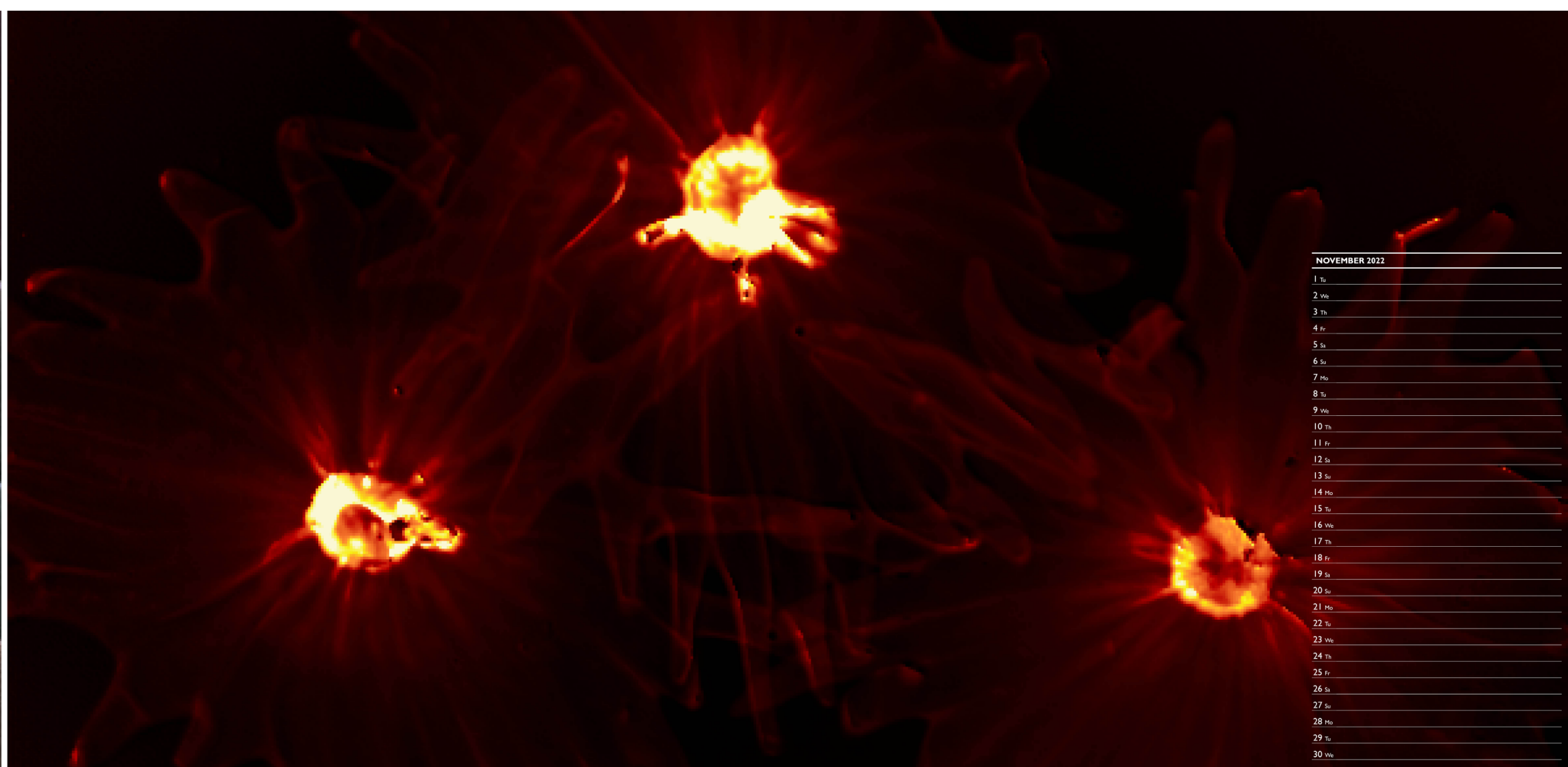
Cubed In
Full 3D image of the chemical composition of a DC vehicle motor magnet, the cube was generated from a series of BSE images. (GSH FIB/ICL JIB-4700F and SPLEView™ Map software, powered by Mountain8)
Digital Surf & J.DX, (Lunapic) SAS, Digital Surf



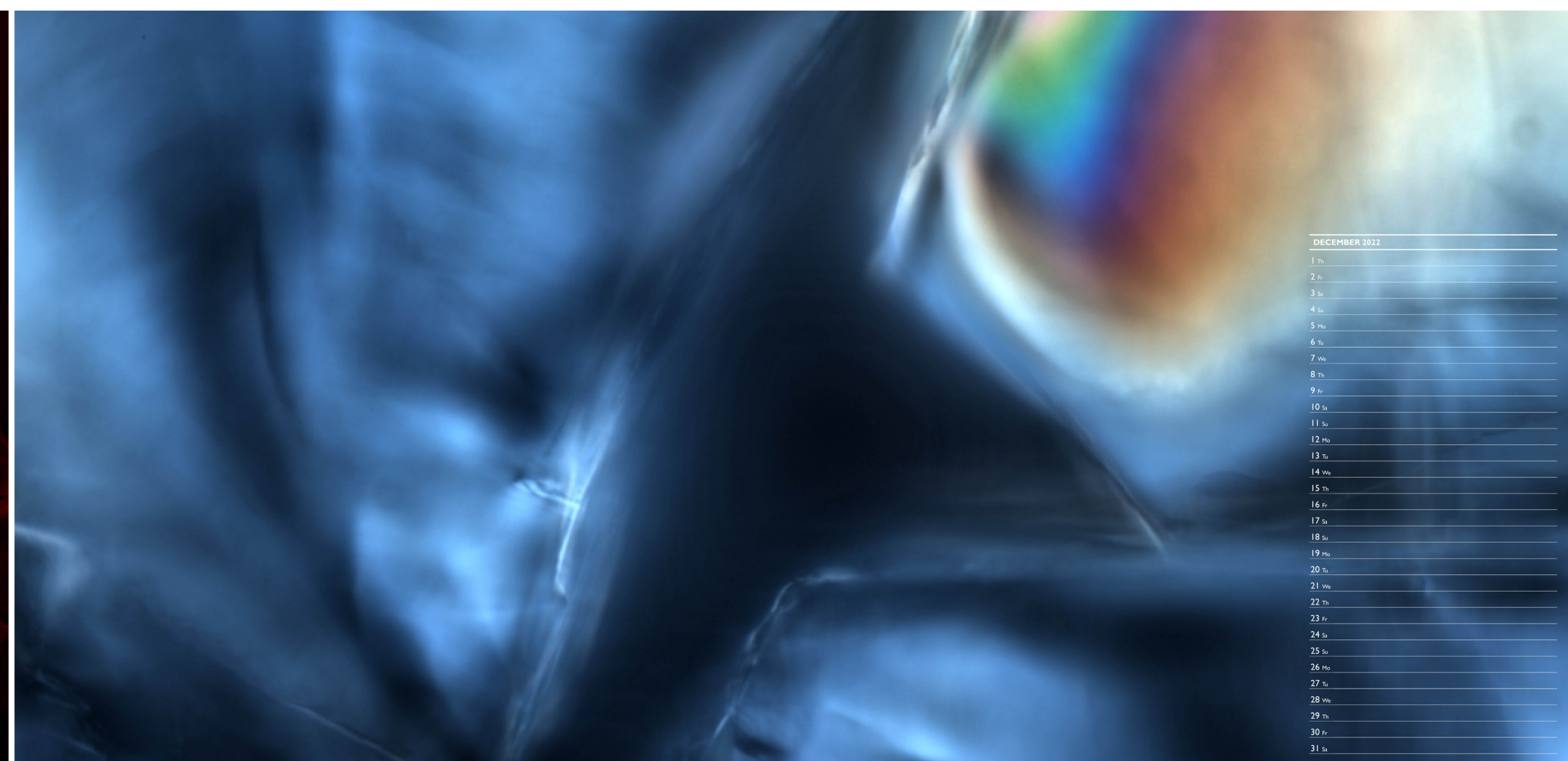
The Wings of a Phorid Fly
This number of colours is due to the light interference effect in this film, which is why this picture is called wing interference pattern. The pattern on the wings is not random and is different for different insects. Taxon-specific patterns are formed by different thickness of the wing membrane, venation, and placement of the wing. These patterns are inherited and their meaning lies in visual signaling. (Microscope: Bionnex Qp; camera: Panasonic JX 600)
Andrei Sedykh



Micro Blossoms
Fluorescence and backscattered studies of Zagros mountains. (The micrograph is edited with cooperation of Afraza Rahmani) (TESCAN Vega3)
Elena Refomir, Siles University



Volcanoes
Olive tree leaf cross-section. (10x magnification, Quantitative phase image (QPI). Pseudo-colour represents the cell dry mass density (Tight Q-Phase)
Zuzanna Nowakowska, TELIGHT



Dust's Stress Me Out
This image shows mechanical stress induced birefringence in Nylon polymer particles. These particles have been freeze fractured and imaged using differential interference contrast (DIC) microscopy, revealing areas of high mechanical stress in the form of beautiful spectral patterns. (Nikon T2 in DIC mode)
Jordan Murray, University of Southampton

