

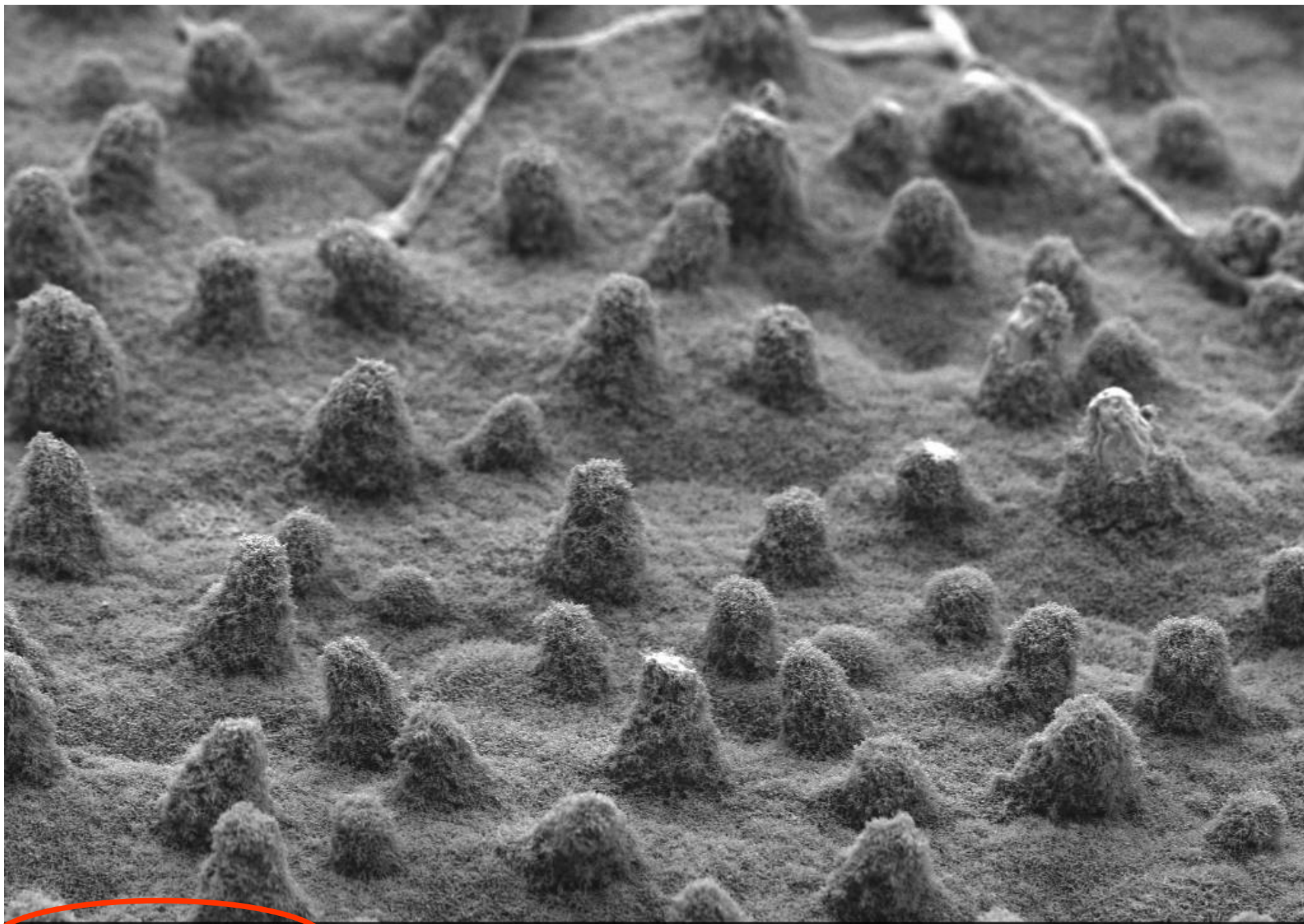
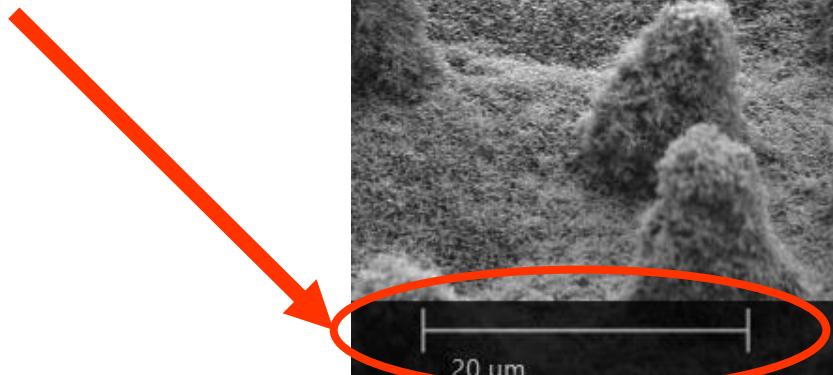
Electron Microscope image

**Lotus leaf (x 978 magnification)**



A link to one of our videos about biomimicry (learning from nature)

This scale bar is  
20 micrometres -  
that is **20  
millionths** of a  
metre which is  
about a quarter  
of the width of a  
human hair!



Electron Microscope image

**Lotus leaf**  
**(x 6,360 magnification)**



A link to one of our videos about biomimicry (learning from nature)





Voltage: 3.00 kV

Focus: 6.3 mm

Detector: SE

Mag: 6.36 K X

Aperture: 30 μm

Pressure: 1.87e-04 Pa

Date: 27/05/2020

Time: 15:13:25

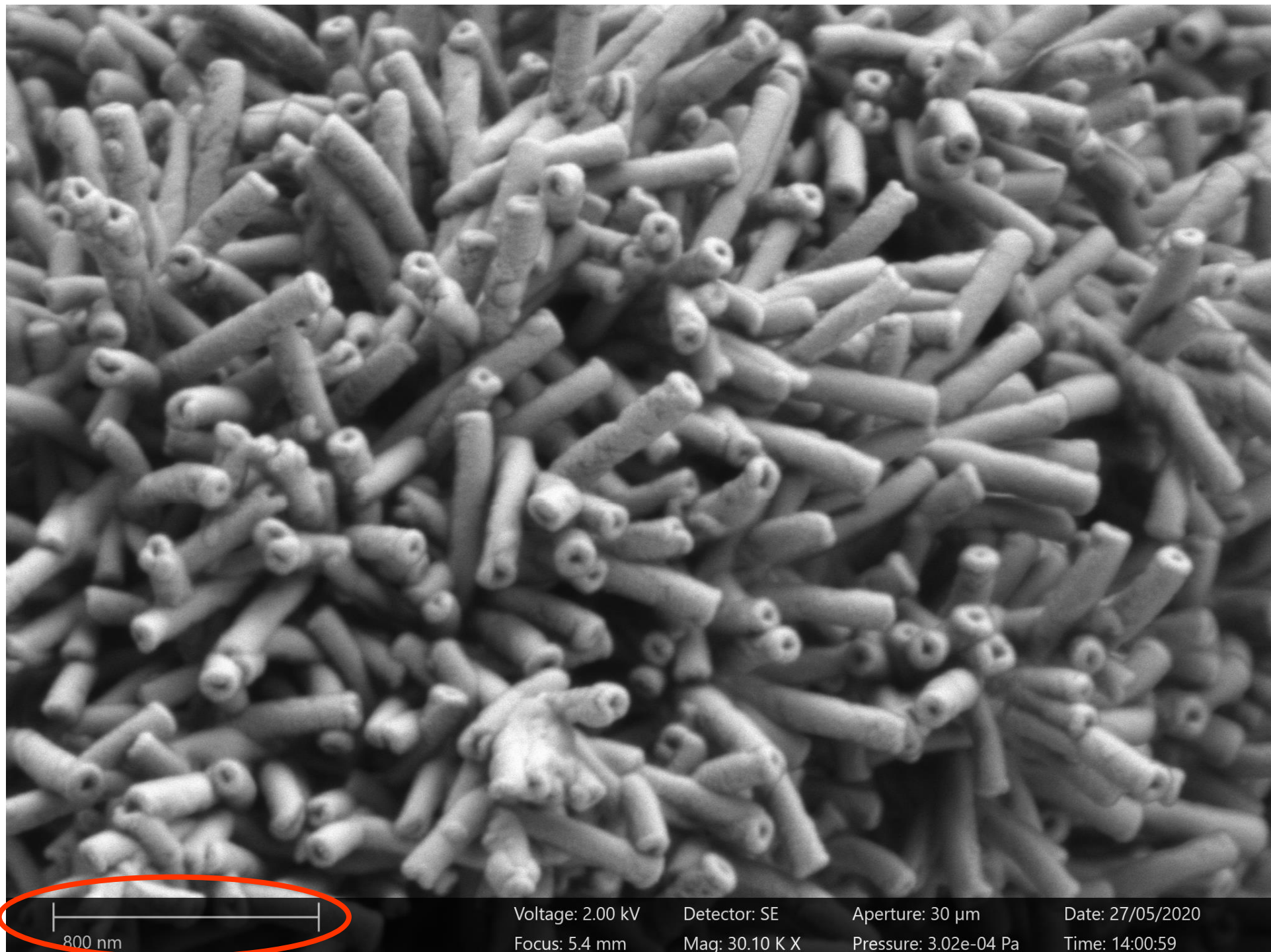
Electron Microscope image

**Lotus leaf**  
**(x 30,100 magnification)**



A link to one of our videos about biomimicry (learning from nature)

This scale bar is  
800 nanometres  
- that is **800  
billionths** of a  
metre which is  
about a  
hundredth of the  
width of a human  
hair!



Voltage: 2.00 kV

Detector: SE

Aperture: 30  $\mu$ m

Date: 27/05/2020

Focus: 5.4 mm

Mag: 30.10 K X

Pressure: 3.02e-04 Pa

Time: 14:00:59



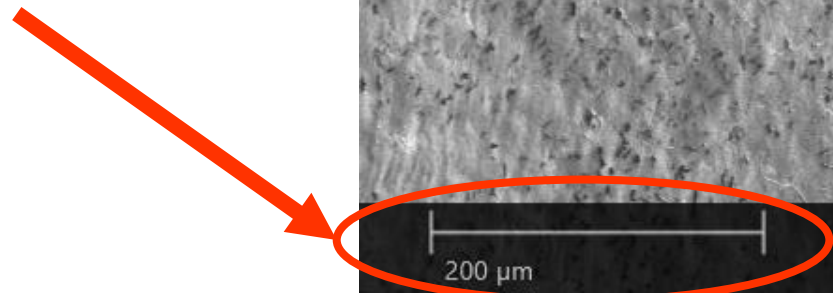
Electron Microscope image

**Holly leaf (x 100 magnification)**



A link to one of our videos about biomimicry (learning from nature)

This scale bar is  
200 micrometres  
- that is **200  
millionths** of a  
metre which is  
about two and  
half times the  
width of a human  
hair!



Voltage: 1.00 kV

Detector: SE

Aperture: 20 μm

Date: 12/06/2020

Focus: 5.3 mm

Mag: 100 X

Pressure: 1.11e-03 Pa

Time: 14:03:47



Electron Microscope image

**Holly leaf (x 1,000 magnification)**



A link to one of our videos about biomimicry (learning from nature)

This is a **stomata** which is what a leaf breathes through. It is about 20 microns (or 20 millionths of a meter) in size so about a quarter of the width of a human hair

Note it is rough (and waxy) which keeps it dry and **superhydrophobic** allowing the leaf to take in more air.





# Duck Feather

## (x 73 magnification)

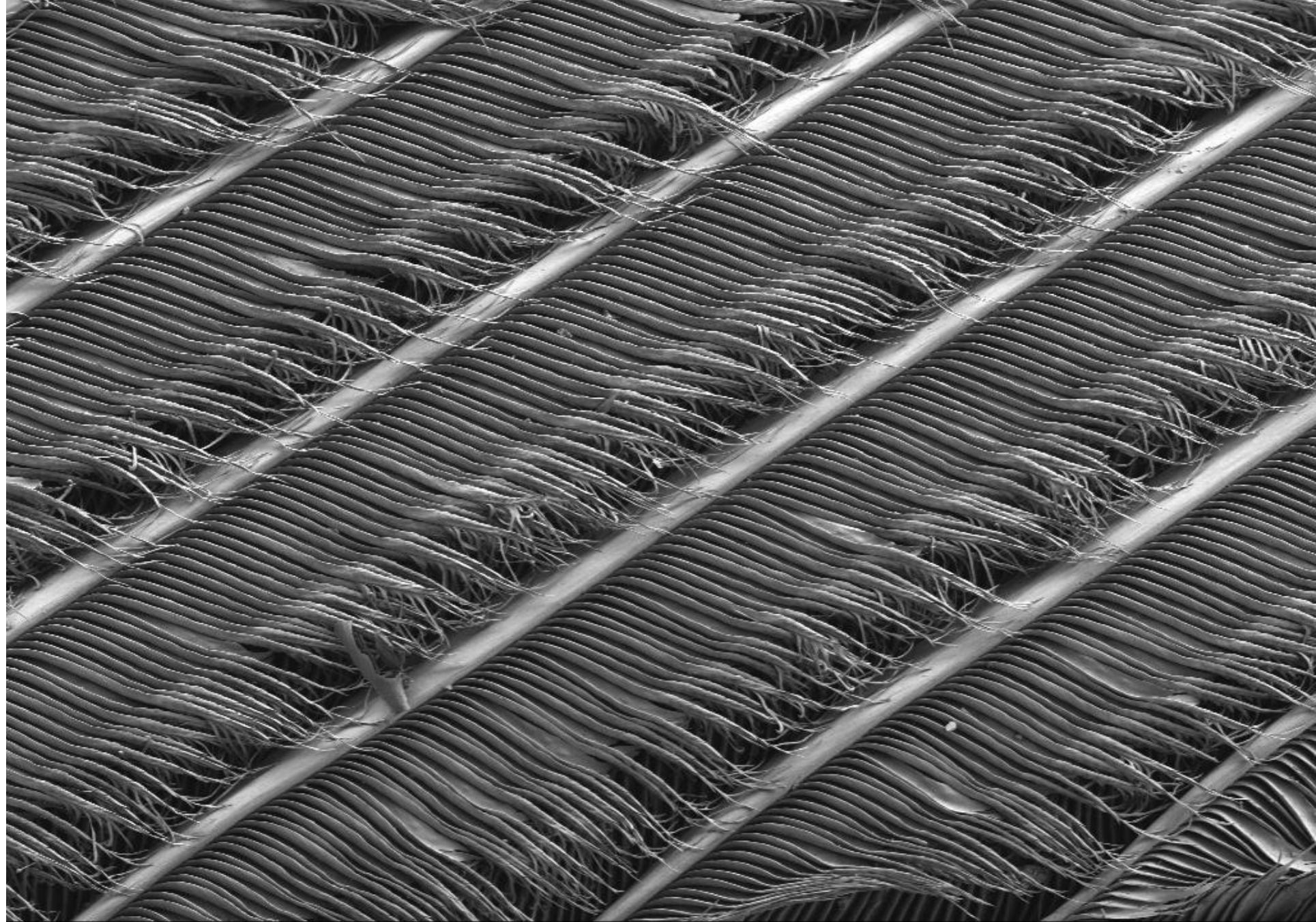


Seeing beyond



A link to one of our videos about biomimicry (learning from nature)





300  $\mu$ m

Voltage: 3.00 kV  
Focus: 4.4 mm

Detector: SE  
Mag: 73 X

Aperture: 30  $\mu$ m  
Pressure: 1.65e-04 Pa

Date: 27/05/2020  
Time: 15:45:23

# Duck Feather

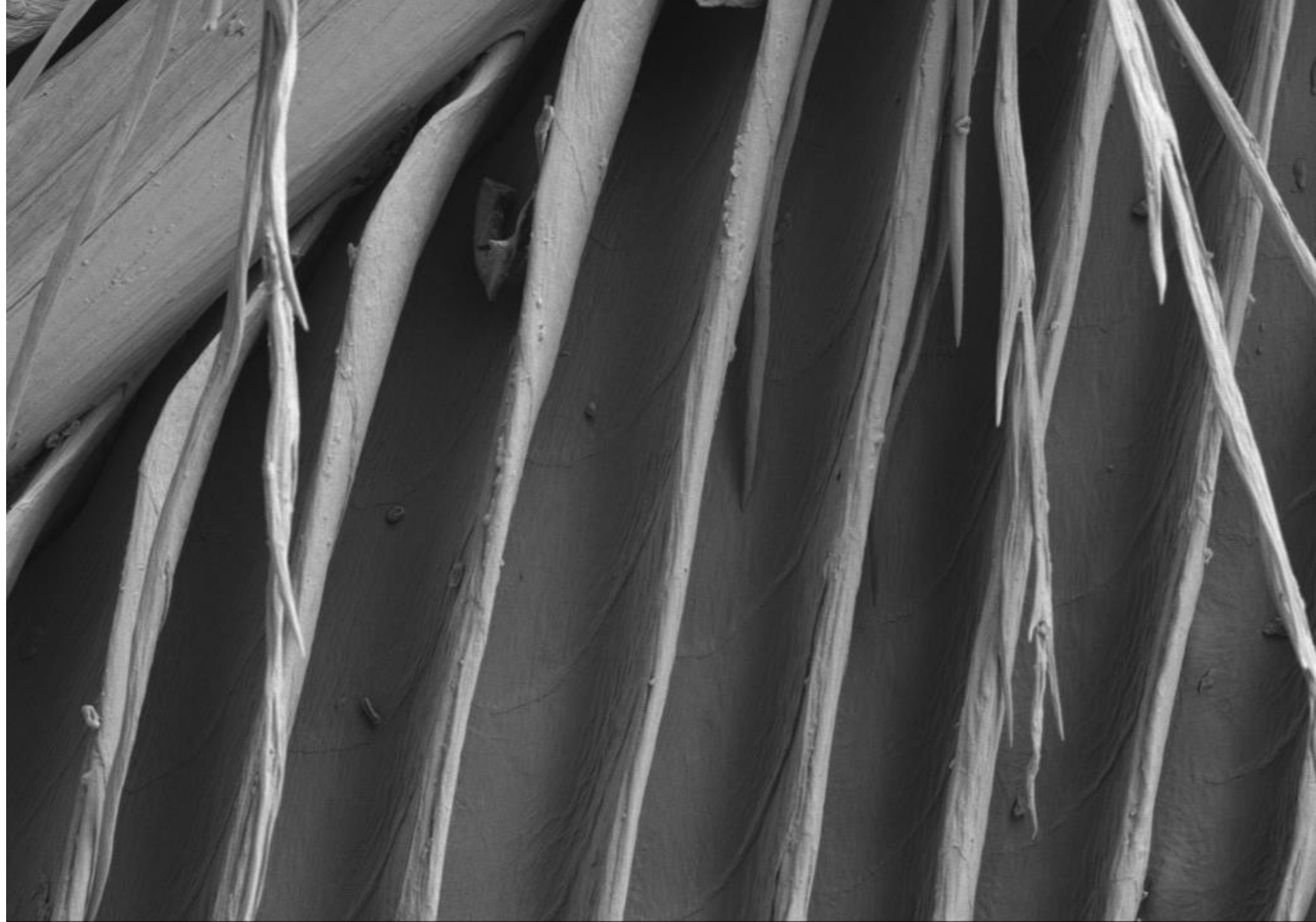
**(x 860 magnification)**



Seeing beyond



A link to one of our videos about biomimicry (learning from nature)



30  $\mu\text{m}$

Voltage: 3.00 kV  
Focus: 5.8 mm

Detector: SE  
Mag: 860 X

Aperture: 30  $\mu\text{m}$   
Pressure: 1.65e-04 Pa

Date: 27/05/2020  
Time: 15:42:59