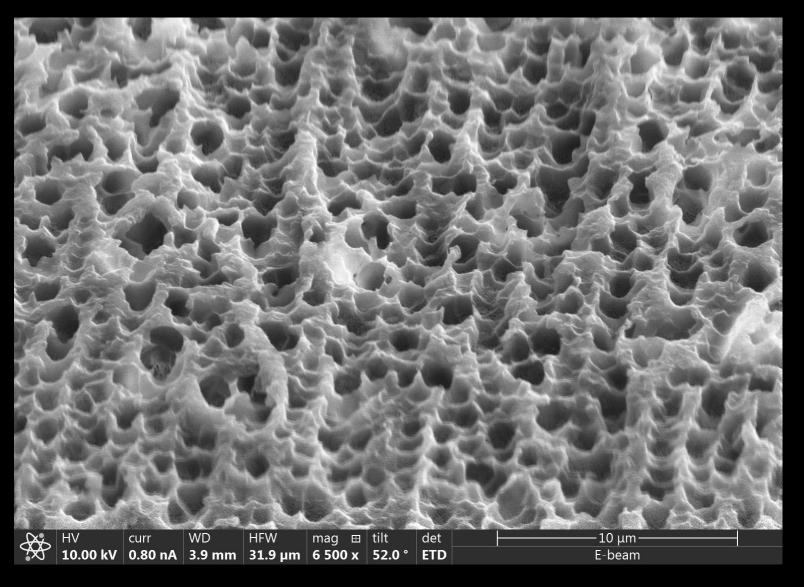


"My Puppy"

EVA K-12 Student



#### "Nano pumice"

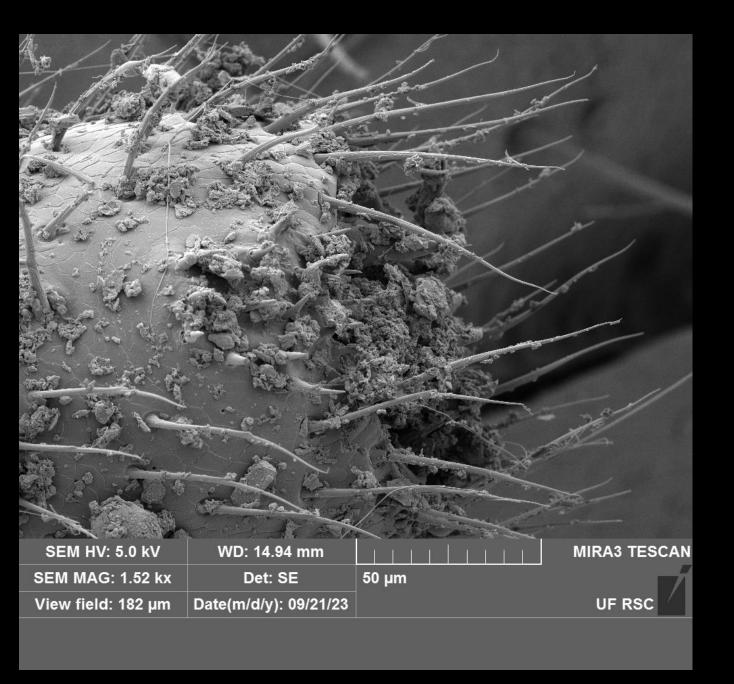
Closeup SEM of a roughened Liquid Crystal Polymer surface that looks very similar to pumice rock.

Ladan Jiracek Graduate Student

### SEM HV: 5.0 kV WD: 15.46 mm **MIRA3 TESCAN** Det: SE **SEM MAG: 2.83 kx** 20 µm UF RSC View field: 97.9 µm Date(m/d/y): 09/21/23

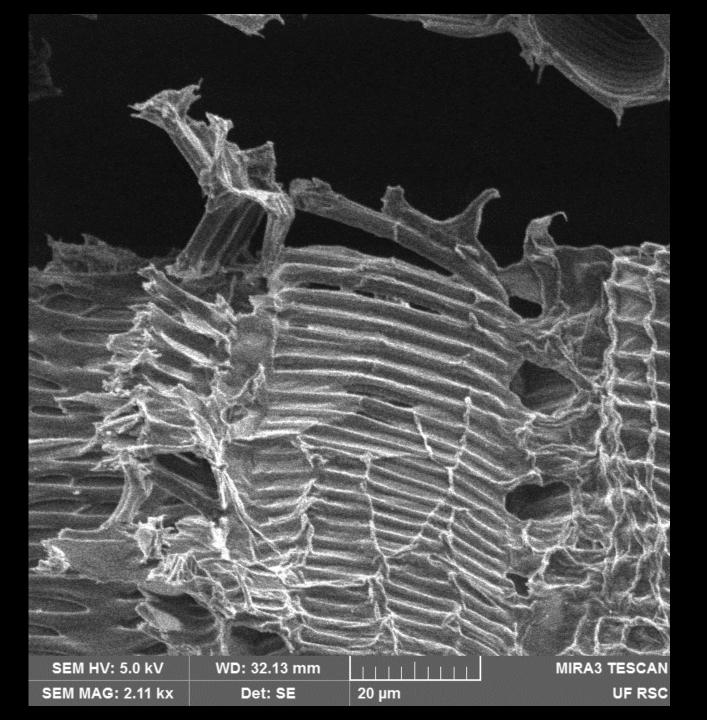
#### "Vortex of Souls"

A sensor inside a little nipple on a centipede. It is located above each of its legs. The little hairs inside are probably for sensing vibrations. False Colored



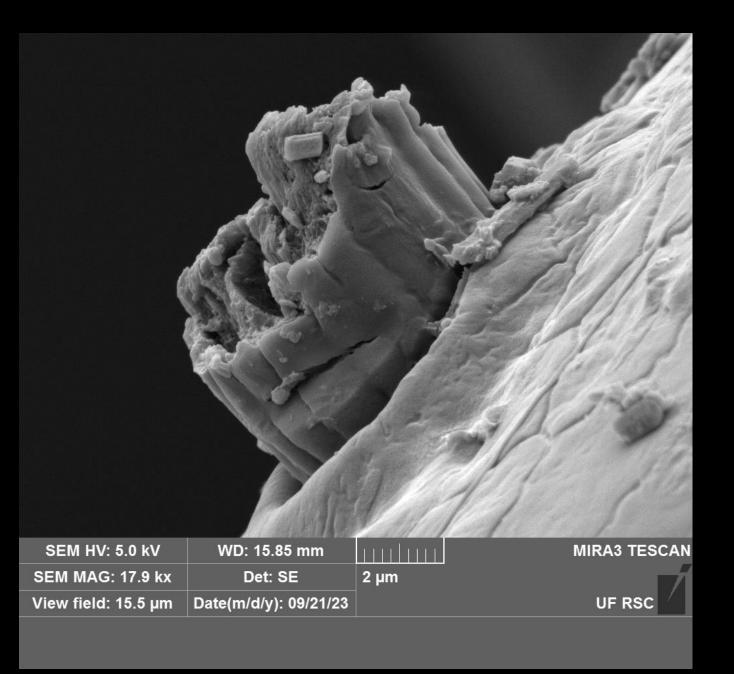
# "Eldritch horror mukbang power hour"

The end of an antenna on a bug .



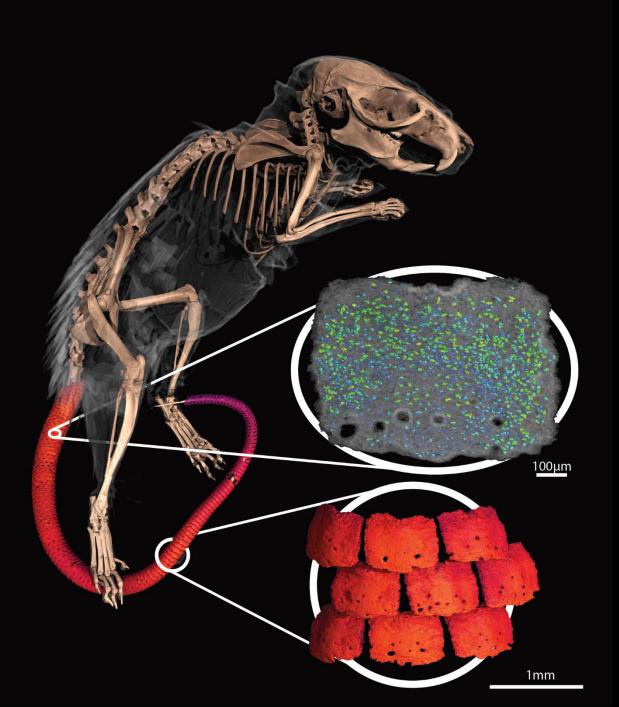
"Rib Cage"

DQ K-12 Student



"This is where this rainbow ends."

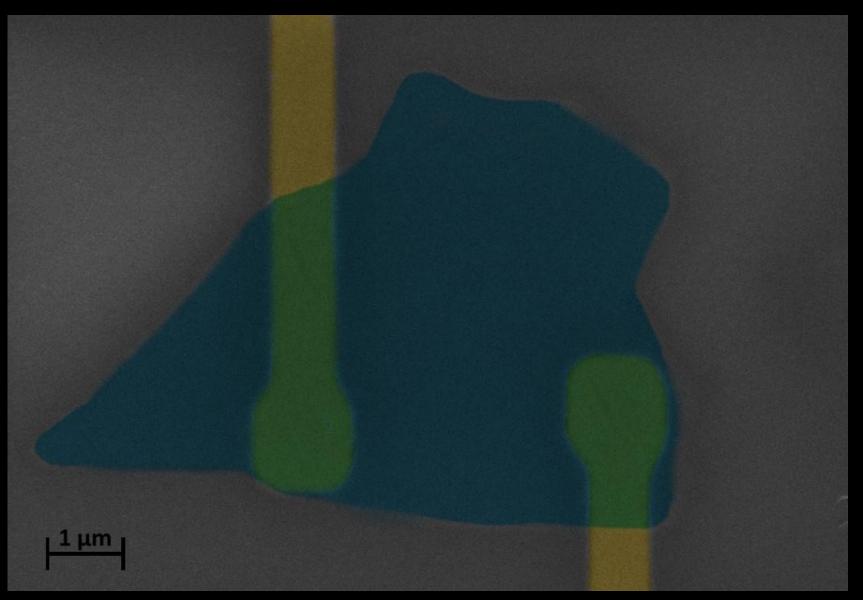
Some sort of broken stalk at the very end of a bug's butt.



## "Micro and NanoCT scan of Spiny Mouse osteoderms"

Micro and NanoCT scans of a spiny mouse Acomys cahirinus detailing the newly discovered osteoderms (bony plates) in the tail. Prior to this work, the only mammals know to posses these armored structures were Armadillos and their close extinct relatives. NanoCT reveals patterns of osteocyte lacunae (voids left in the bone from the nuclei of the bone growing cells) which can inform us about how these bones develop.

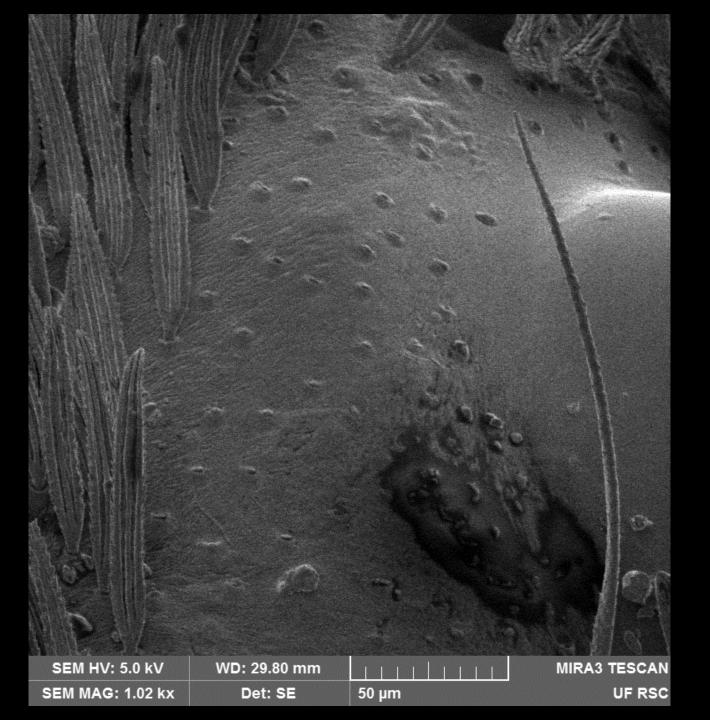
Edward Stanley, Ph.D. FLMNH/RSC Staff



## "Nanoscale 2D Material Photodetector"

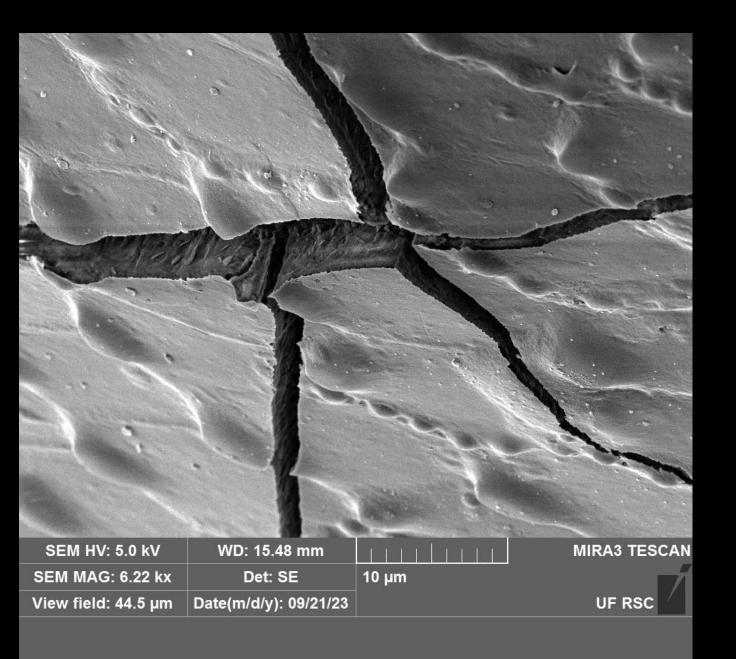
This colorized SEM image shows a photodetector made out MoS2, a 2D transition metal dichalcogenide. Electrical connections are shown in gold, while the material is shown in blue, both are sitting on top of a polymer substrate. This is one element out of a larger array of detectors.

Russell Schwartz Graduate Student



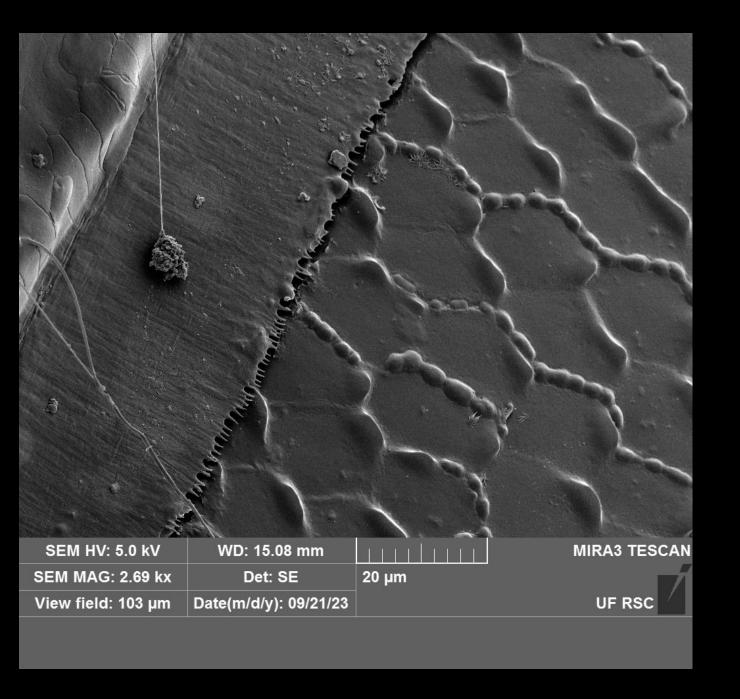
### "Plucking Feathers"

DQ K-12 Student



#### "Cracks in the armor"

A portion of cracked shell on a bug.



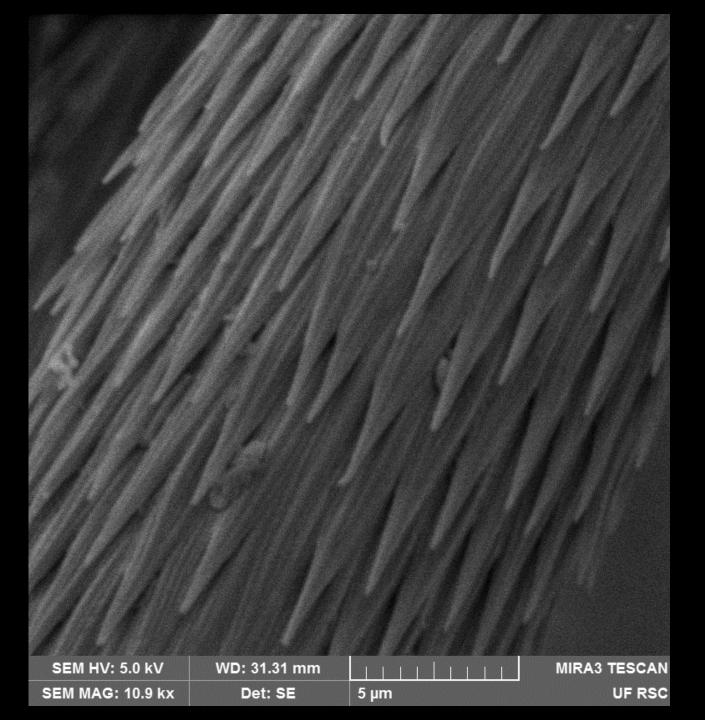
#### "Beach day!"

A close up on where two pieces of a bug's shell come together.

## **MIRA3 TESCAN** SEM HV: 5.0 kV WD: 14.68 mm **SEM MAG: 4.83 kx** Det: SE 10 µm UF RSC View field: 57.3 µm Date(m/d/y): 09/21/23

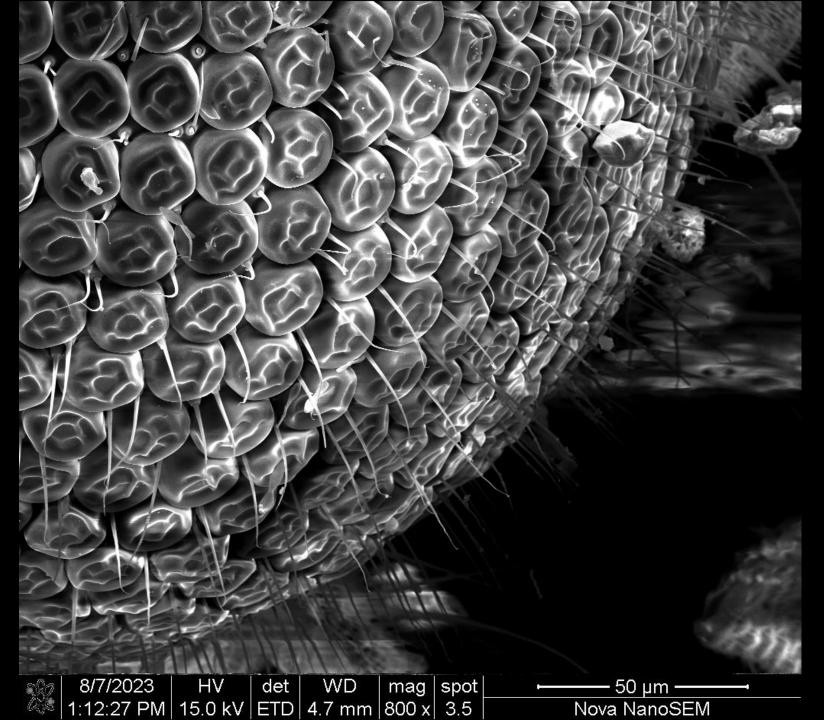
#### "Breaking Bread"

A broken piece of leg from a bug. You can see layers in the walls of its leg.



### "Hairy Legs 2"

EVA K-12 Student



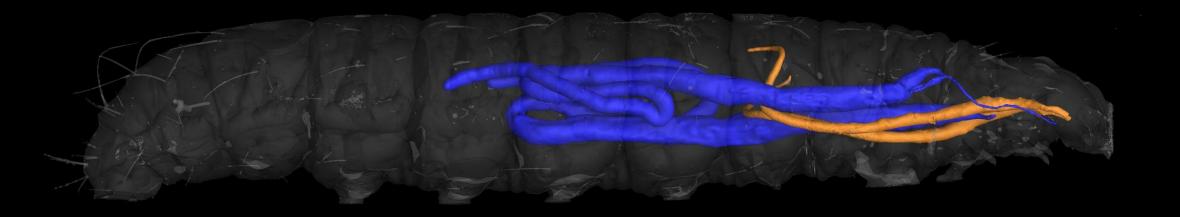
#### "Alien Planet"

An exploration of an unknown world, the eyes of a fly. Taken at 800x the eye resembles an alien planet.

Marco Downing RSC Staff

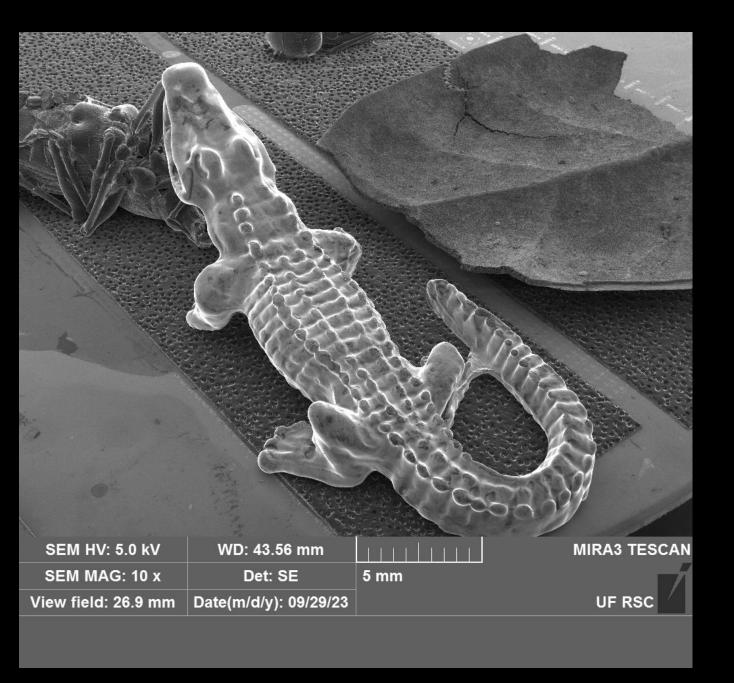
## "The Pantry Pest Polymer Producer"

CT scan of a 4th instar Plodia interpunctella silkworm larva. Individual silk glands (blue) and salivary glands (orange) are segmented to study regions within silk gland structure relevant to silk fiber spinning.



1 mm

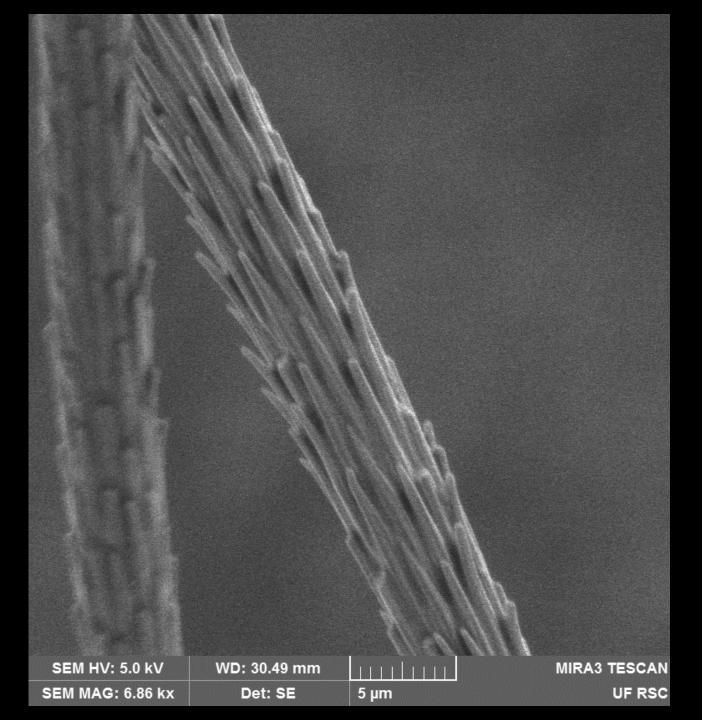
Lauren Eccles Graduate Student



#### "Micro Gator"

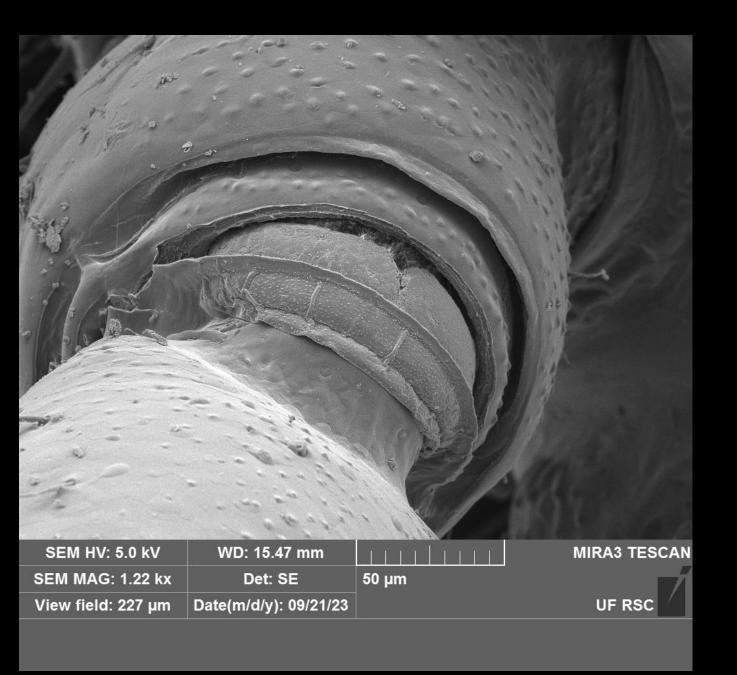
Micro Gator eating a bug.

Andres Trucco RSC Staff



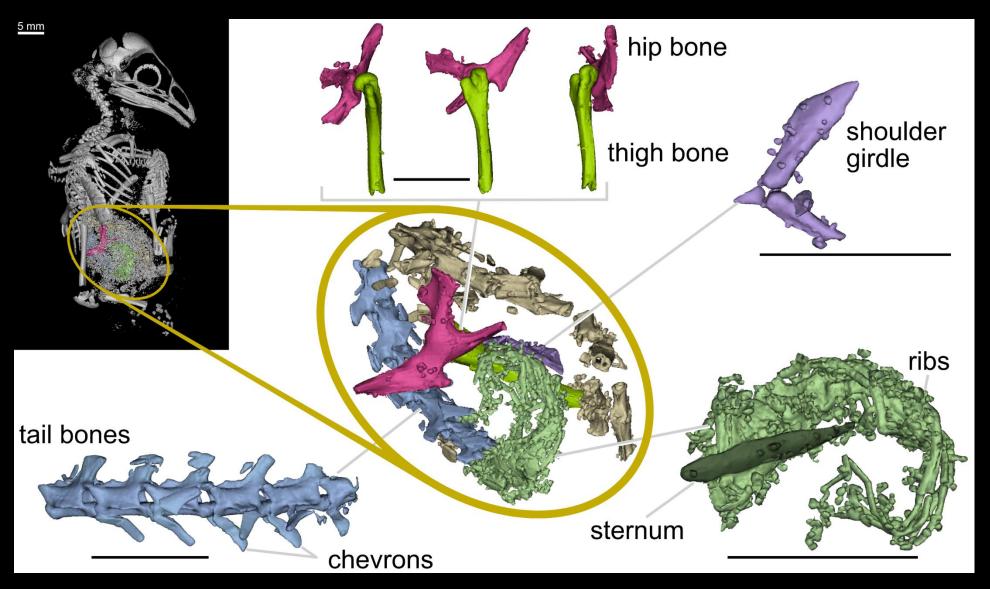
"Skinny Hairy Legs"

EVA K-12 Student



### "onions have layers"

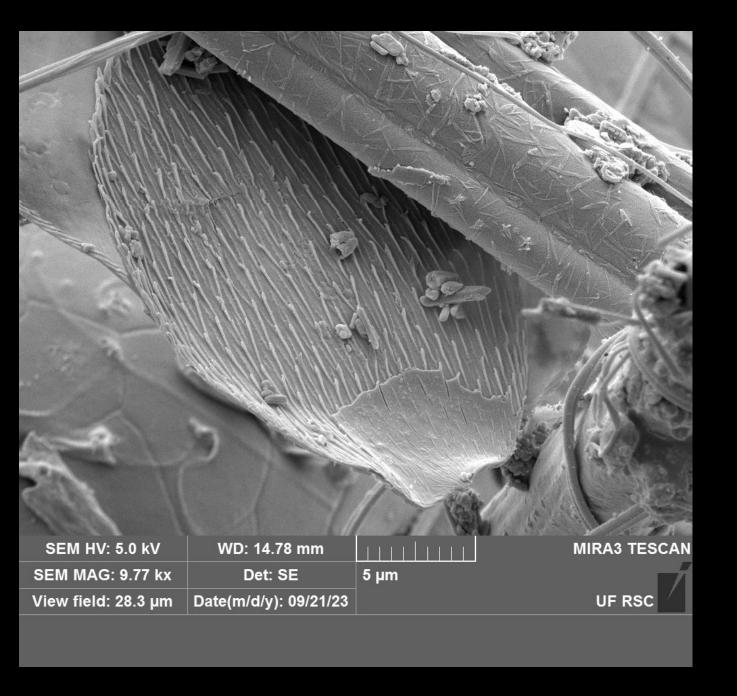
The lower joint of a bug's leg



# "5-day-old bird ate a tiny lizard"

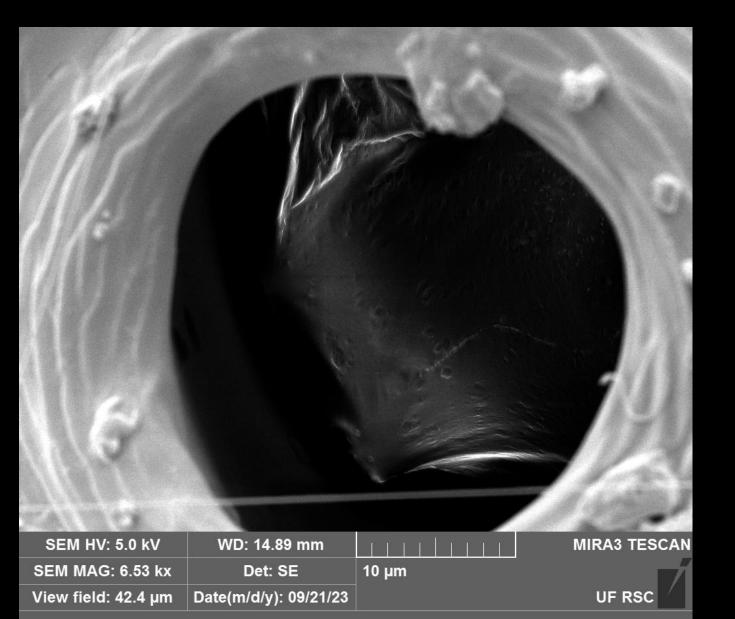
This image is derived from a CT scan of a 5-day-old loggerhead shrike (Lanius ludovicianus, FMNH 368617) project. Just before it died, this shrike ate a small lizard. How can we tell it's a lizard? By generating individual models of the prey's bones in the bird's crop, we can see parts of the hip, leg, shoulder, ribs... but most importantly, the tail bones. Reptiles have sticky-outy bits on the bottom sides of their tail bones called chevrons. Mammal tail bones do not have these structures. This image shows that the devoured animal's tail has chevrons, so we can conclude this baby bird ate a tiny lizard. (All black scale bars in the image are 5mm.)

Stephanie Baumgart



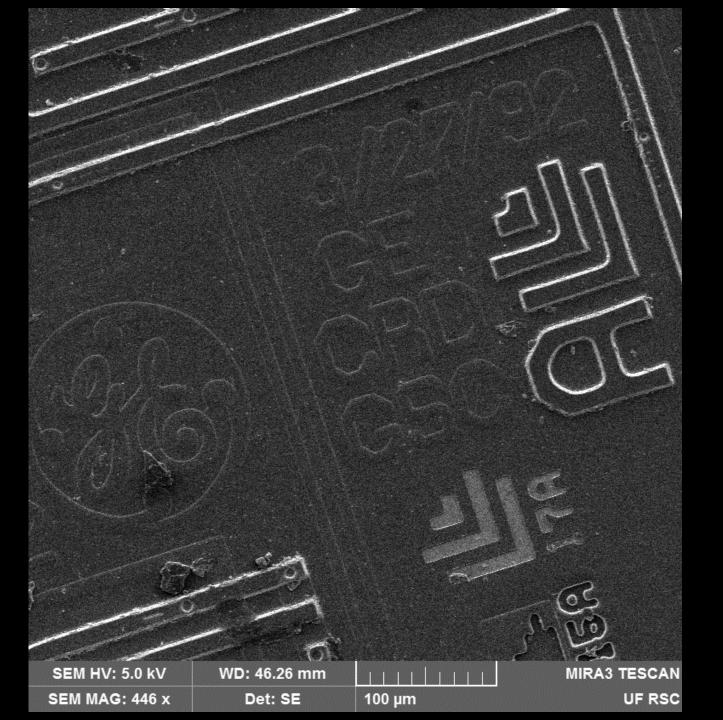
#### "Dead leaves and..."

Some sort of sensor in the shape of a leaf. It appears to be detached from the bug and might stick up if it were alive and moving around. Next to it is a fallen hair of some kind from the bug. It almost looks like a fallen tree next to a giant leaf.



#### "The beating heart"

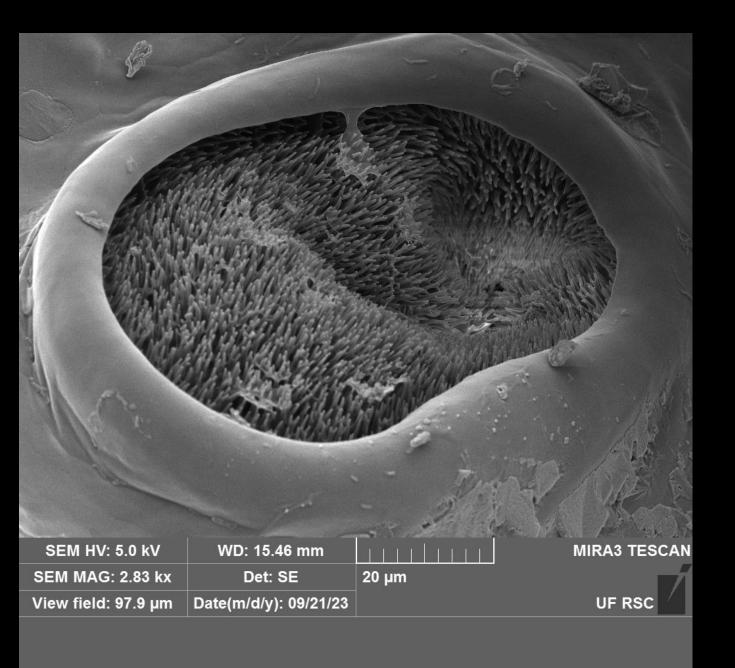
A hole that appears to have come from a hair stalk being ripped out.



"GE - 1992"

GE Logo in device dated 1992.

Eric Litt Microscopy Fan



#### "Keeping It Reef"

Some sort of sensor on a bug I found. It is next to the joint where its leg is attached to its body. It looks like a coral reef