The Confocal Microscope Itself

2.1 Intro to the Leica SP 5

Armitage gives an overview of the Leica SP 5. He starts with how to power it up. This is an inverted microscope, familiar upright microscopes. Epi-illumination comes in from below and is reflected off the specimen back into the objective. Transmitted illumination comes from above. After you turn on the microscope, turn down the transmitted light in the time. The transmitted light illuminator rocks back, out of the way of the stage, which allows you to place a wafer on the stage. The objective special stage inserts that snap into the stage. The stage is motorized, and it moves all around during initialization. If the transmitted illuminator and be sure to rotate the nosepiece to the blank position (the one with no objective). Moreover, KEEP STAGE when it is moving. The focus knob on the salt-n-pepper shaker raises and lowers the nosepiece; be careful not to get you into your specimen. The microscope is floating on an air table. Do not lean on the table.
Captivated by soft dinosaur tissue publications 1966, 2001, 2005
1966 - Roman Pawlicki - Jagiellonian Univ, Poland - 15 papers
2001 - Armitage - collagen fibers in T. rex femur
2005 - Mary Schweitzer - NC State - T. rex vessels/cells/RBC's

Deep within femur....
2012 - Hell Creek Formation, MT. Search for long bones
Many interesting finds but no long bones - time was running out!
So our paleontologist guide took us to the well-known Baisch ranch where many fine dinosaur specimens have been collected over the years.

Maggie has lived on this 1000+ acre ranch since she was a little girl.

She knows every inch of the ranch and took us to several promising areas.
We ended up on the side of a cliff with part of a Triceratops horn peeking out.
40+ inch Triceratops horn
Largest one recovered
Friable and moist
Full of plant roots, fungus
Insect remains
Probable microbes
Jacketed but fractured
Noticed soft brown material

Proceeded with fixation
One thing you learn in microscopy is to wait...
But I wanted to make sure anything in the horn was preserved
Bone

soft layer

Strip peeled away

Bone soaked in weak acid
To reveal inner structures
Stretchy like Taffy

Thin sections made
Soft bone tissues were full of bone cells (osteocytes)

The osteocytes were complete with filipodia intact......!
And so I learned to isolate individuals & finally met Old Stretchy.....

HI! I'M A DINOSAUR BONE CELL

Transparent dinosaur bone cells!!
We also used our electron microscope to look at Old Stretchy!

Everywhere we looked we confirmed the presence of dinosaur bone cells!
With their elegant filipodia, the cells look alive....
In the Fall of 2012 there was an incident...
Soft sheets of fibrillar bone from a fossil of the supraorbital horn of the dinosaur Triceratops horridus

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ABSTRACT

Soft fibrillar bone tissues were obtained from a supraorbital horn of Triceratops horridus collected at the Hell Creek Formation in Montana, USA. Soft material was present in pre and post-decalcified bone. Horn material yielded numerous small sheets of lamellar bone matrix. This matrix possessed visible microstructures consistent with lamellar bone osteocytes. Some sheets of soft tissue had multiple layers of intact tissues with osteocyte-like structures featuring filipodial-like interconnections and secondary branching. Both oblate and stellate types of osteocyte-like cells were present in sheets of soft tissues and

A week after publication I was fired
My supervisor called it a witch hunt
The evolutionists recognize the explosive nature of these findings - they can’t tolerate the dissemination of this information....

My prediction

If dinosaur remains are soft...
OLD STRETCHY
THE DINOSAUR BONE CELL

DVD INSIDE!

AND THE ADVENTURES OF TRICERATOPS HORN