Center for Toxicology, Southwest Environmental Health Sciences Center (an NIEHS Center)

Experimental Pathology Core Newsletter

October 2001 **http://swehsc.pharmacy.arizona.edu/exppath/**

Need a microscope repaired or cleaned?

Optical microscopes should be cleaned periodically and repaired as needed. Here is the contact information for the four major microscope vendors:

LEICA ***(also: Leitz, Wild, AO, Baush & Lomb, Reichert)*** – GTI Microsystems *(Tempe, AZ)* 877-968-1930
NIKON – A.G. Heinze *(Chandler, AZ)* 480-813-7786
OLYMPUS – Scientific Instruments Inc *(Tempe, AZ)* 602-437-1286
ZEISS – Zeiss service 800 number *(serviceman lives in Tempe, AZ)* 800-633-6610

If your microscope only needs to be cleaned, another possibility is Maryott Optical Systems *(Tucson, AZ)*. Michael Maryott is a retired service and sales representative who has worked for Zeiss & Leica. He's done a nice job on several microscopes in Cell Biology & Anatomy. He can be reached at 624-8087.

Multiphoton confocal news:

The bids for the multiphoton confocal microscope have come in and Dr. Lantz has decided to purchase the Zeiss LSM 510 NLO. Over the summer Dr. Lantz, Doug Cromey and Barb Carolus *(Arizona Research Labs)* carefully examined the instruments from Leica and Zeiss. While both companies make good instruments, we felt that the Zeiss had several important strong points, not the least of which being better on-site service response times.

We don't have an installation date for the new instrument yet, but we hope to have the system in by March 2002. Because the multiphoton confocal microscope will be installed in the same room *(Life Sciences North 410)* that the existing Leica TCS-4D confocal is currently occupying, there will be a period of time when there will be no confocal microscope available in LSN. Because the trainers/technical support staff and **all** users will need some time to get "up to speed" on the new system, it would be prudent to consider scaling back plans for experiments requiring the confocal microscope this spring. We will be working on these details and more information will be forthcoming in the December & February newsletters.

The funding for this purchase came from a Department of Defense instrumentation grant awarded to Dr. Lantz, as well as the office of the UA Vice President for Research, Arizona Research Lab's Biotechnology division, and the Neilson Trust at the UA College of Medicine.

For more information on the Zeiss LSM 510 NLO, click on "Laser Scanning Microscopes" at: http://www.zeiss.de/us/micro/home.nsf/

What is a multiphoton confocal microscope? See the Core's April 2001 newsletter for a brief overview. Online copies of the newsletter can be found at: http://swehsc.pharmacy.arizona.edu/exppath/core/news/

Histology Core Lab news:

As a reminder, we cannot work on radioactively labeled tissues without prior notification. The lab is not routinely posted for radioactivity and we are not "permit holders", so there is some paperwork involved.

We are evaluating the ramifications of continuing to accept human tissue specimens in the Cell Biology & Anatomy Histology core. We invite your feedback as we continue to investigate the biohazard and regulatory issues related to working with human tissue specimens.

The Histology Core Lab has a newly written policy on radioactively labeled and biohazardous specimens. Copies will be available in the lab and on our web site at: http://www.cba.arizona.edu/histo/hazardpolicy.html

Unfortunately the announcement in the summer newsletter regarding the hiring of a new part-time histotechnician in the lab turned out to be premature. The individual we thought we had hired changed their mind and turned the job down. In the meantime we have hired a part-time undergraduate student, Robert Snyder, to help with processing & embedding of tissues, staining slides and other tasks around the lab.

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