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

Experimental Pathology Service Core

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http://www.pharmacy.arizona.edu/exp_path.html

Core News:

- Please note our updated email addresses listed above. Due to the continued changes in campus computing resources, we have opted to list our email addresses using name server aliases. In theory these are now our "permanent" email addresses.
- During the months of April, May and June there were over 4000 requests for the Experimental Pathology Service Core's WWW pages. Nearly 90% of the web page requests came from outside the University of Arizona.
- The Core's suite of www pages called "Microscopy and Imaging Resources on the WWW" was very popular. These pages are listed in some of the major Internet libraries *(e.g., ARGUS Clearinghouse, Internet Public Library, Emory University's MedWeb & the WWW Virtual Library)*, on most major search engines *(e.g., Alta Vista, Excite, HotBot, InfoSeek & Magellan)* and are linked to by over two dozen sites worldwide.

On going Projects in the Experimental Pathology Service Core:

- Lung Toxicology CD-ROM *(in collaboration with Joanna Norman of the SWEHSC COEP)* for use in high school classrooms. The CD uses microscopic images and text to teach basic toxicology, lung morphology, issues related to second-hand tobacco smoke, morphometry, and data analysis. Ultimately we would like to make this available on the WWW as well. We are currently refining the first draft of this project after feedback from a test classroom and other reviewers. *(The data is from experiments done by the labs of SWEHSC Investigators Clark Lantz and Mark Witten.)*
- Replacement of the BioQuant image analysis system. Image analysis hardware and software have come a long way in the last decade and we are evaluating two systems that have considerably greater flexibility and utility than our current system allows. We are in the beginning stages of a proposal to the AHSC research council for funding for a replacement system that would be a shared resource.
- Acute toxicology of liver slices using the confocal microscope. Andrea Payne, Christopher Rocha and Dr. Gandolfi are working on a pilot project funded by Proctor & Gamble to use the confocal microscope to study *in vitro* toxicology of precision cut liver slices. We are assisting Dr. Gandolfi's lab to help resolve a number of optical and technological issues related to this project.

Available from the Core

(For SWEHSC Investigators & Associates, their staff and students):

- A brochure describing the Core and the resources available through the Core.
- Hands-on training in the use of the confocal and transmission electron microscopes, as well as other related equipment.
- Financial assistance for users of selected microscopy related service labs and facilities at the University.
- Technical assistance on topics such as: advice on properly fixing specimens for a given microscopic technique, immunofluorescence, experimental design, morphometric analysis *(measuring the changes between controls and treated tissues)* and digital imaging.

Histology Lab hours:

- During the summer months, Frank Walmsley is working Mondays-Thursdays. Doug Cromey is usually available on Fridays to help people log in tissues or pick up completed work. When the fall semester begins Frank's schedule will change again to accommodate his class schedule. We will post the new schedule in the lab.