



## **Electron Microscopy Lab news:**

Due to workload and budgetary considerations, the electron microscopy lab (ARL Biotechnology Imaging Facility) in Life Sciences North has had to lay off one of its two staff. Peggy McCuskey will remain as the contact person for this facility.

Just a reminder, the Cellular Imaging Core is experienced and able to assist you with your EM projects. Doug Cromey is nationally certified in electron microscopy (MSA) and spent the 12 years prior to joining the SWEHSC working in the UMC Clinical Pathology diagnostic electron microscopy facility. Renee Benally has been taking a graduate course in electron microscopy this fall. We would be happy to assist you with experimental design, performing the scope work and/or with the interpretation of the images.

## **Immuno-histochemistry/fluorescence workshop planned for February 2004:**

We've recognized that labs regularly run into problems with immunohistochemistry/immunofluorescence experiments. We are currently working out the details for a 3-4 hour workshop on these topics for February. The speaker is Ethel Macrea from Ventana Medical Systems. We've previewed her materials and this should be a very helpful workshop.

We would like some feedback on the preferred format for the workshop. Would users prefer the workshop be one 3-4 hour afternoon session, or should we break it into two late afternoon time-slots in the same week?

## **SWEHSC web site redesign:**

In the coming months the SWEHSC's web site will be transformed. We are currently in the process of updating and transferring the Cellular Imaging Core pages to a new design. To preview the changes, check out the following sample pages (*please note, this is a work in progress, so not all the links are functional yet*):

SWEHSC - home page: <http://swdemo.pharmacy.arizona.edu>

Cellular Imaging Facility Core - home page: <http://swdemo.pharmacy.arizona.edu/exppath/>

- Core personnel: <http://swdemo.pharmacy.arizona.edu/exppath/core/people.html>
- Multiphoton: <http://swdemo.pharmacy.arizona.edu/exppath/core/equip/multiphoton.html>
- Formaldehyde fixatives: <http://swdemo.pharmacy.arizona.edu/exppath/resources/formaldehyde.html>

## **MSA position on Ethical Digital Imaging:**

At the 2003 summer council meeting of the Microscopy Society of America the following resolution was adopted as representing the position of the MSA on ethical digital image processing:

Ethical digital imaging requires that the original uncompressed image file be stored on archival media (e.g., CD-R) without any image manipulation or processing operation. All parameters of the production and acquisition of this file, as well as any subsequent processing steps, must be documented and reported to ensure reproducibility.

Generally, acceptable (non-reportable) imaging operations include gamma correction, histogram stretching, and brightness and contrast adjustments. All other operations (such as Unsharp-masking, Gaussian blur, etc.) must be directly identified by the author as part of the experimental methodology. However, for diffraction data or any other image data that is used for subsequent quantification, all imaging operations must be reported.

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We visited this topic in our February 2001 newsletter and the ten guidelines that we provided back then are available on-line at: [http://swehsc.pharmacy.arizona.edu/exppath/micro/digimage\\_ethics.html](http://swehsc.pharmacy.arizona.edu/exppath/micro/digimage_ethics.html) We can also provide this same information in a 2-page Adobe Acrobat document (PDF).

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