



Sample Curriculum: Fluorescence

(MME © 2006)

Special unit on fluorescence microscopy - A one day, hands-on course

This course will cover:

- Adaptation of a conventional upright microscope for fluorescence
- Importance of spectral consistency from light source to sample to filter set to detector
- Single channel vs. multiple channel fluorescence detection
- Impact of chemistry on fluorescence
- Resources for optimizing fluorescence filter sets and illuminators
- Resources for stains, dyes, and probes

MME will supply all workbooks and course materials. Where possible, MME will supply 1 copy of "Optimizing Light Microscopy", a useful 188 page book which discusses the principles presented in these courses.

The client will supply:

- classroom and laboratory space;
- one microscope for each two students with the necessary components (in this case, fluorescence illuminator and filter cubes), preferably fitted with video systems and, if possible, printers;
- an overhead projector
- 35mm projector
- and relevant samples for observation.

Please note that, for maximum impact and effectiveness, we prefer to move the microscopes into a conference room, away from the general lab. If this move is a problem, please let us know as early as possible. Also, if there is a problem with the number of microscopes available, please let us know as soon as possible. We will try to coordinate with your local dealer for loan of equipment.