FOCUS ON ESSENTIAL
RESEARCH TOOLS

Electron Microscopy Sciences

Electron Microscopy Sciences
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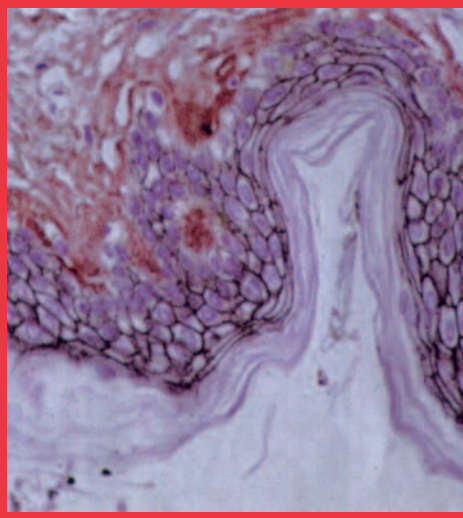
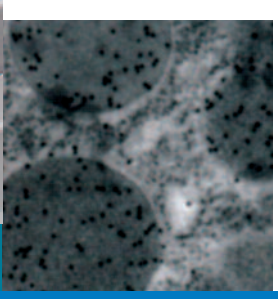
email: sgkcck@aol.com *or* stacie@ems-secure.com
www.emsdiasum.com

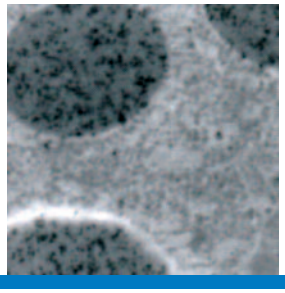
look for us...

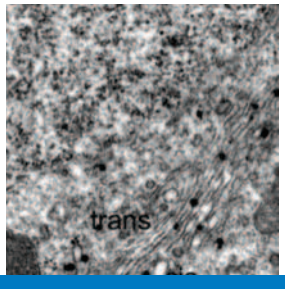
Aurion ImmunoGold Reagents

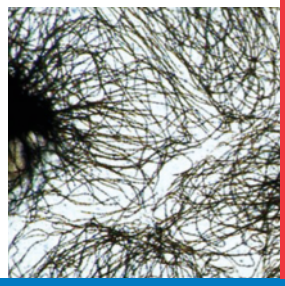
Over the years the Aurion line has grown and has been further enhanced to include many unique and exclusive products not available elsewhere. Today their line includes not only the more commonly known reagents for EM and LM but, as well, a newly introduced line of products such as Silver Enhancement specifically for EM, Ultra-Small Fab fragments, Blocking Solutions, and even a line of donkey gold conjugates. With all of the new additions to the line up Aurion and EMS have something for everyone in the ImmunoGold Field.











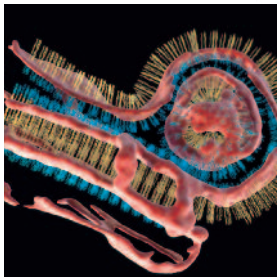
If you are interested in attending or sponsoring a workshop...

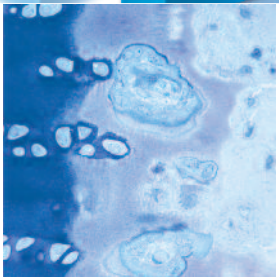
please give us a call and ask for Stacie Kirsch.

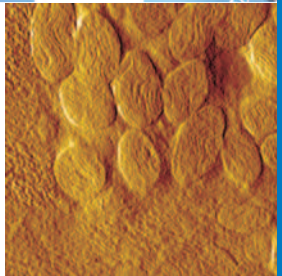
DiATOME Diamond Knives

ultra 45° • cryo • histo • ultra 35°
histo jumbo • STATIC LINE II
cryo immuno • ultra sonic
ultra AFM & cryo AFM
and now the NEW!...

trimtool 20 and trimtool 45
Finally, one trimming tool for all of your trimming needs, be it at room or cryo temperatures.

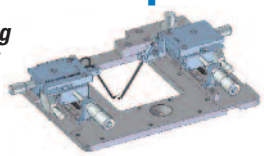






NEW!...
DiATOME manip

For easy handling and mounting of section ribbons



Applications

- Frozen hydrated biological samples (CEMOVIS)
- Room temperature sectioning of water sensitive samples

Dry resin sectioning of biological samples for chemical analysis
Dry sectioning of industrial samples such as polymers

For more information, see our new Full Line Catalog or visit us on the web at www.emsdiasum.com

FOCUS ON ESSENTIAL RESEARCH TOOLS

Electron Microscopy Sciences

Lynx II

Automated Tissue Processor for Histology and Microscopy

The most unique state-of-the-art tissue processor which not only is compatible with all plastic resins but paraffin waxes as well

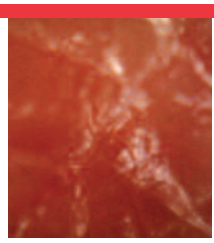
The LYNX II holds 24 reagent vials for EM processing. Optional HP (Histology processing) may be done with 12 larger size reagent vials for HP processing. In both EM and HP modes, LYNX II has two independently controlled heating/cooling stations.

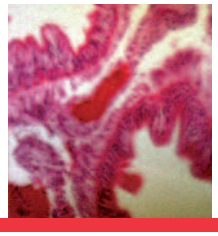
ProScope Micro Mobile, the world's first handheld digital microscope is now adaptable to mobile devices.

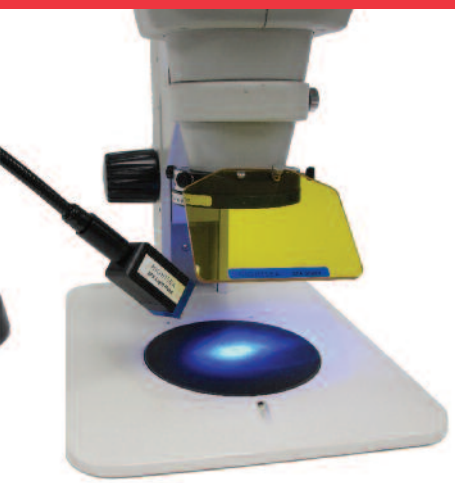
ProScope Digital Handheld Microscopes

There is always a yet undiscovered use for any of the ProScope models as the microscopic world is now in your hands. Popular uses include: ***Science Education, Law Enforcement, Medical Fields, Quality Inspections***

Our offering includes the Wireless ProScope Mobile, ProScope HR and ProScope HR2, and Proscope Micro Mobile Digital Handheld Microscopes, as well as software and accessories.







Adapt your existing lab stereo microscopes for fluorescence

NIGHTSEA™ Stereo Microscope Fluorescence Adapter

The NIGHTSEA™ Stereo Microscope Fluorescence Adapter adapts just about any stereo microscope (dissecting microscope) for fluorescence with no modification to the microscope itself. The modular design lets you easily switch between several different excitation/emission combinations to work with a variety of fluorescent proteins and other fluorophores. There are now six different excitation/emission combinations available, plus white light.

This simple system is excellent for:

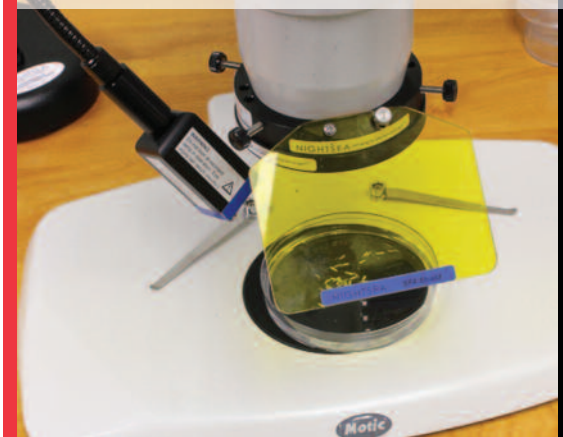
- Quick screening of your fluorescent genotypes - *Drosophila*, zebrafish, *C. elegans*,...
- Fluorescence-aided dissection, injection, or micromanipulation
- Freeing up your research-grade fluorescence microscopes for more demanding work
- New faculty start-up budgets
- Bringing fluorescence into the teaching laboratory

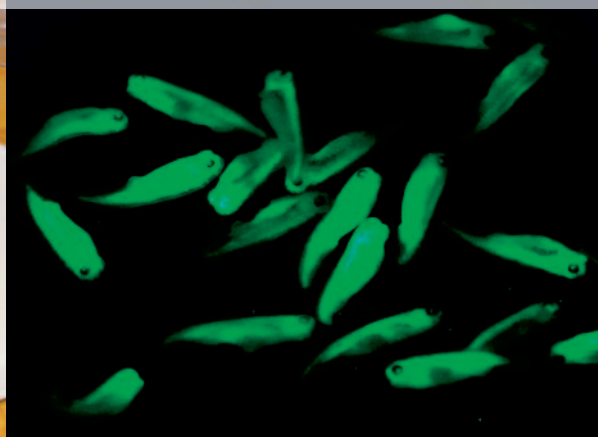
See how it works...
Learn how to do it...

We've added video content to our website to help you get to know our latest products even better!

Stop by and see what it's all about.

Stereo microscope configured for green fluorescence, viewing *Xenopus* through shield filter for sorting.





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look for us...

C-Flat™ Holey Carbon Grids for Cryo-TEM

C-flat™ is an ultra-flat, holey carbon-coated TEM support grid for transmission electron microscopy (TEM). Unlike competing holey carbon films, C-flat™ is manufactured without plastics, so it is clean upon arrival and the user has no residue to contend with.

C-flat™ leads to better data sets.

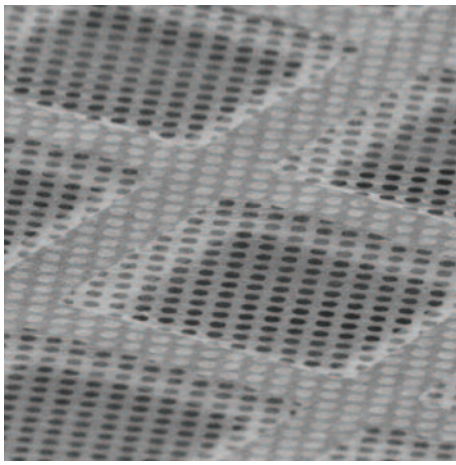
Made with patent pending technology, C-flat™ provides an ultra-flat surface that results in better particle dispersion and more uniform ice thickness. Patterning is done using deep-UV projection lithography, ensuring the most accurate and consistent hole shapes and sizes down to submicron features. The precise methods by which C-flat™ is manufactured elminate artifacts such as excess carbon and edges around holes.

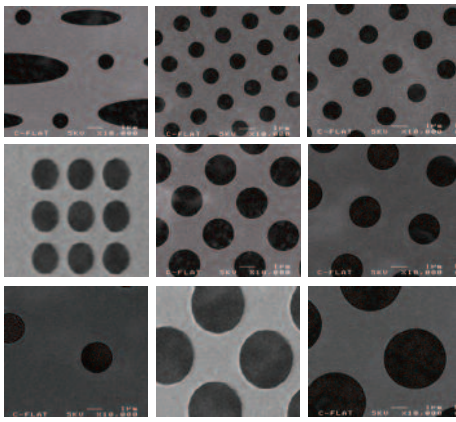
C-flat™ is affordable

C-flat™ is available in 25, 50, and 100 packs at a per-grid price less than competing products.

C-flat™ Customization

We realize that each customer has unique needs since specimens vary greatly in composition and size. To meet the diverse and demanding needs of the cryoTEM community, C-flat™ can be customized to meet a user's specific requirements.
Please contact EMS with any custom C-flat™ requests. We will be glad to provide you with a quote for specialized C-flat™ grids. Requests for customized parts can be made directly to EMS via e-mail to sgkcck@aol.com



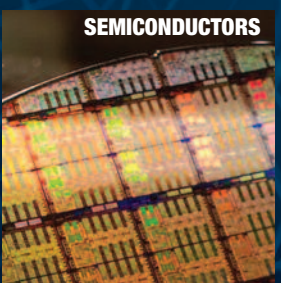


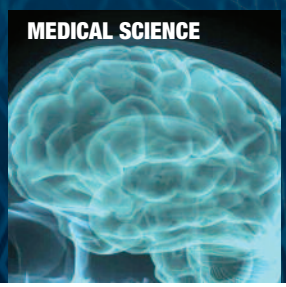
C-Flat™ is now available in the standard version and a new thick version that doubles the carbon thickness from approximately 20nm to 40nm.

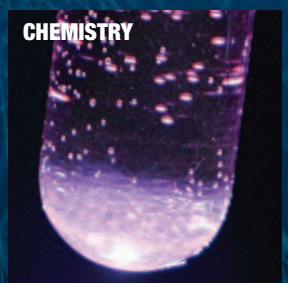
DuraSiN™ Film and Mesh for TEM

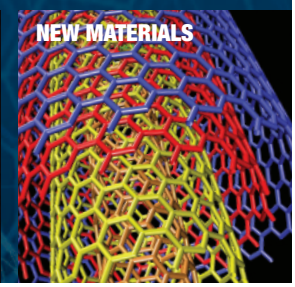
DuraSiN™ Film and Mesh products are affordably-priced, durable, nonorganic, low scatter support grids for quantitative TEM and X-ray analysis. DuraSiN™ products are made of a thin, high quality, low-stress silicon nitride membrane supported around its perimeter by a rigid silicon substrate.
Unlike other support films and grids, DuraSiN™ Film and Mesh products can withstand harsh chemical and temperature environments. For example, DuraSiN™ Film or Mesh products could be used as a substrate onto which nanowires could be directly grown from a strong acidic solution. Once the nanowires are grown, the specimen is immediately ready for imaging and analysis in the TEM. With direct deposition, no longer will you have to prepare a sample on one substrate only to then have to transfer it to a support grid for imaging.

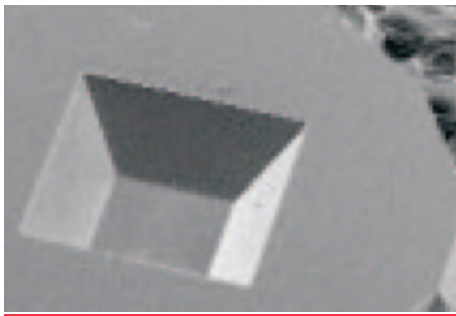
Applications:











SEM image of a DuraSiN™ Film
(taken from the back side)

SEM image of a DuraSiN™ Mesh
(taken from the back side)

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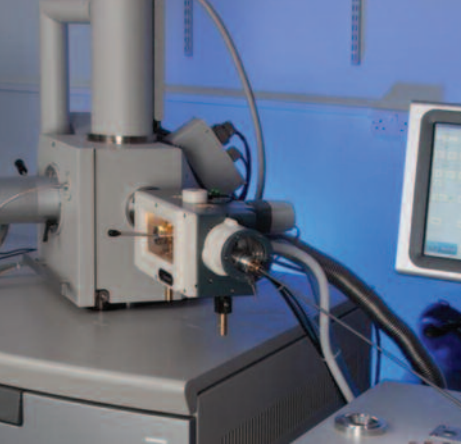


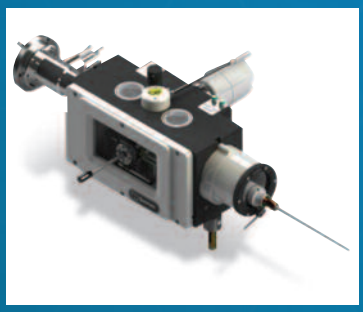
See how it works...
Learn how to do it...

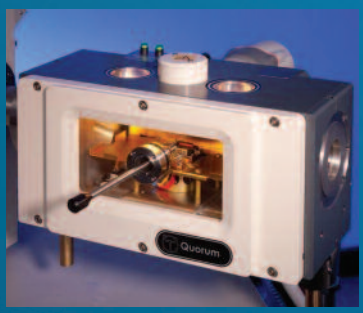
We've added video content to our website to help you get to know our latest products even better!

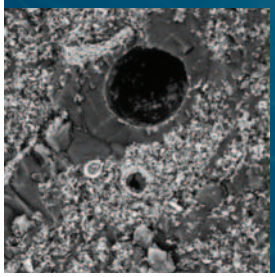
Stop by and see what it's all about.

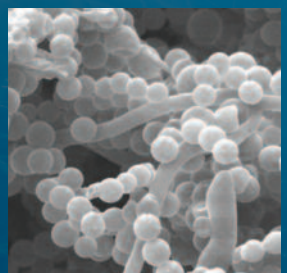
PP3010T Cryo-SEM Preparation System

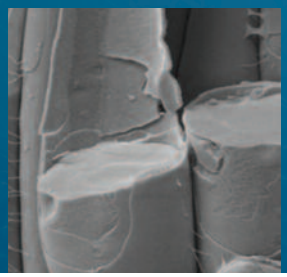
The PP3010T is a highly automated, easy-to-use, column-mounted, gas-cooled cryo preparation system suitable for most makes and models of SEM, FE-SEM and FIB/SEM. The PP3010T has all the facilities needed to rapidly freeze, process and transfer specimens. The cryo preparation chamber is turbomolecular pumped and includes tools for cold fracturing, controlled sublimation and specimen coating. The specimen can then be transferred onto a highly stable SEM cold stage for observation. Cold trapping in the cryo preparation chamber and SEM chamber ensures the whole process is frost-free. Specimen process times are typically between five and ten minutes.

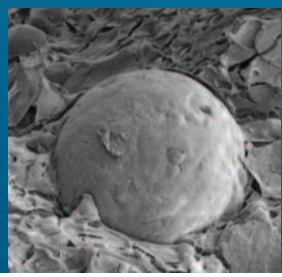


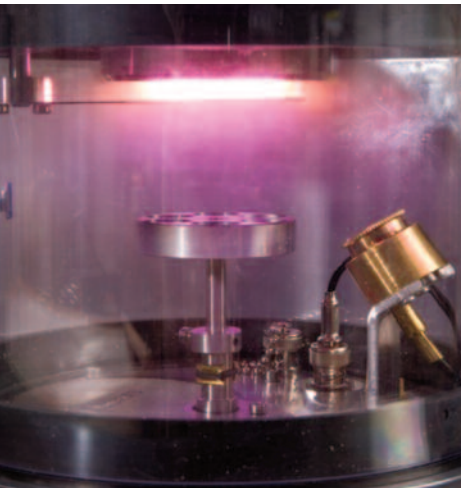












Innovative and versatile

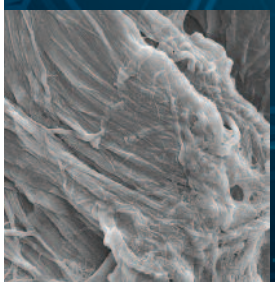
Sputter Coaters and Carbon Evaporators

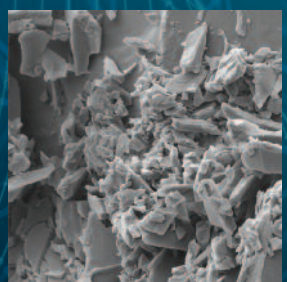
for all Microscopy Applications

SEM, high resolution FESEM and TEM etc. The EMS-150R/T and the EMS 300 Series offers a complete range of stand alone carbon coaters, sputter coaters, Sputter/Carbon coater in one. We offer low-cost, rotary-pumped systems for depositing non-oxidizing metals - such as gold (Au) and platinum (Pt) - and also turbomolecular-pumped models, suitable for oxidizing and non-oxidizing metals - such as chromium (Cr). Large chamber models are available for specimens up to 8"/200mm diameter, and all sputter coaters can be fitted with carbon evaporation attachments.

EMS300TD Dual Target, Large Chamber, Turbo-Pumped Sputter Coater

EMS150R Rotary Pumped Carbon and Sputter Coating System





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