

Research Service Center Newsletter

May 2021

Environmental Health & Safety (EH&S)

Chemical Hygiene Laboratory Inspections

Lab inspections resumed in January. To date, about half of the labs have been inspected. Several labs had not completed their Chemical Hygiene Plan (CHP) or chemical inventory at the initial inspection. This is a federally mandated document. Follow-up inspections will be scheduled for those labs that did not have their CHP prepared.

Proper Attire

Now that warm weather is approaching, please remember that proper attire for a laboratory includes long pants or skirt and closed-toe shoes. Shorts, capris, and sandals are not appropriate. The WSU Safety Policies and Procedures Manual (SPPM) states:

1. Appropriate clothing must be worn, including a protective apron or laboratory coat to protect against chemical splashes or spills, cold, heat, moisture, and radiation. Use protective apparel—including face shields or goggles, gloves, and other special clothing or footwear—as needed.
2. Skin, eyes, and respiratory tract should always be protected from possible exposure by use of appropriate laboratory clothing, goggles/face shields, and respirators. For additional information see the [Fact Sheet Eye and Face Protection](#).
3. Jewelry should be removed from wrists and hands to prevent chemicals from collecting underneath, contact with electrical sources, catching on laboratory equipment, and/or damage to the jewelry itself. For the same reasons, jewelry that loosely dangles from neck or ears should not be worn.
4. To prevent spreading contamination to family and friends, laboratory coats should be removed before leaving the laboratory.
5. Loose apparel should be confined.
6. Long pants should be worn at all times.
7. Open-toe shoes or sandals should not be worn in the laboratory. For additional information, see the [Fact Sheet Foot and Leg Protection](#).
8. If laboratory coats are contaminated with hazardous chemicals, they should be removed immediately and properly laundered or disposed of as hazardous chemical waste.
9. If laboratory clothing is cleaned by a linen service contractor, contractor employees must be informed if contamination of laboratory clothing presents a danger to cleaning service employees.

New Program for SDS

WSU Health Sciences Spokane has contracted with a new outside company, [KHA online SDS \(KHA\)](#), for maintaining its inventory of safety data sheets (SDSs). To access the WSU Health Sciences Spokane SDS database, use the following information:

- **Username:** wsu@sdsmobile.app **Password:** SdS21

KHA Online SDS App

An app can also be downloaded through the App Store or Google Play by searching for “KHA SDS Mobile.” Contact the Lab Services group (spok.labservices@wsu.edu) if you would like to schedule a training session for your laboratory on KHA use and features.



Contacts:

- WSU Spokane Environmental Health & Safety – Phone: 509-358-7621, E-mail: spokane.ehs@wsu.edu
- Merle J. Heineke – Phone: 509-358-7889, E-mail: merle.heineke@wsu.edu
- Megan Chastain – Phone: 509-358-7541, E-mail: megan.chastain@wsu.edu
- Olga Shiva – Phone: 509-358-7873, E-mail: olga.shiva@wsu.edu
- Chad Trent – Phone: 509-368-6699, E-mail: chad.trent@wsu.edu

Lab Services

Equipment Issues

Several instances of equipment failure have been noted over the past months. In all cases, the equipment had gone into alarm or was making an unusual noise. Research staff have failed to respond to the alarms or noise. This has resulted in significant loss for the principal investigators. Please remind your staff to respond to alarms or to notify the Lab Services group if equipment is not working properly or making unusual noises.

Autoclaves

The autoclaves located in PBS have been upgraded to add a vacuum cycle. This cycle is used for items that are in a pouch. The gravity cycle should be used for items that are not wrapped. When the appropriate cycle is selected, the autoclave can achieve sterilization within 30 minutes. Please review SOP006 (<https://spokane.wsu.edu/research/documents/2020/07/sop-006-operation-consolidated-autoclave.pdf/>) for further information regarding the operation of the autoclaves.

Contact:

- WSU Spokane Laboratory Services – E-mail: spok.labservices@wsu.edu

Vivarium/Program of Laboratory Animal Resources (PLAR)

Updated rates for FY2022: PLAR has updated the FY22 animal per diem rates with modest increases to specific cost centers to cover normal inflation and increased supply costs due to COVID-19. The service center proposal with the new rates has been submitted to the WSU Controller's Office and is awaiting approval. An email with the proposed rates was sent to the vivarium users on April 30, and the final approved rates will be sent out as soon as we hear from the Controller's Office. These updated rates will go into effect on July 1, 2021, to carry forward to July 1, 2022. We repeat the fiscal analysis each year but for planning and grant proposal submission, please plan for a 3 percent increase each year to cover anticipated increases in supply and labor costs. For a copy of the proposed rates or if you have further questions, please email ocv.spokane.vet@wsu.edu.

Hematology Analysis: PLAR is able to offer in-house hematology analysis for labs wishing to include complete blood counts or analysis as part of their experiments. Please contact jennifer.kopanke@wsu.edu if you are interested in learning more.

Contacts, Spokane:

- General PLAR inquiries – E-mail: ocv.spokane.vet@wsu.edu
- Jennifer Kopanke, DVM – Phone: 509-358-7825, E-mail: jennifer.kopanke@wsu.edu
- Rob Archuleta – Phone: 509-358-7975, E-mail: robert.archuleta@wsu.edu
- For PLAR animal emergencies – Phone: 509-592-6884

Contacts, Main Office (Pullman):

- General Office of the Campus Veterinarian inquiries – Phone: 509-335-6246, E-mail: or.ocv.alert@wsu.edu
- For emergencies if unable to reach the PLAR emergency contact – Phone: 509-330-1871

Research Service Centers

The Microscopy, Flow Cytometry, Mass Spectrometry, and Imaging Research Service Centers have a new calendar system on SharePoint. If you have not received your invitation to the calendar, contact Megan Chastain and she will create your account.

Contact:

- Megan Chastain – Phone: 509-358-7541, E-mail: megan.chastain@wsu.edu

Flow Cytometry

A biosafety cabinet is scheduled for delivery on May 4. This cabinet will house the SONY Cell Sorter and will allow Biosafety Level 2 research. An announcement will be issued when installation is complete.

New flow cytometry users need to complete training prior to operating the Gallios independently. Depending on past experiences, it may take several sessions to become completely familiar with the equipment and software. Please plan in advance.

Contacts:

- Ze Liu – Phone: 509-358-7633, Email: ze.liu@wsu.edu
- Olga Shiva – Phone: 509-358-7873, E-mail: olga.shiva@wsu.edu

Mass Spectrometry

It is imperative that all users of mass spectrometry equipment document their usage. The rate charged is calculated as expenses divided by hours of usage. Failure to record usage results in a higher rate.

Contacts:

- Ze Liu, Phone: 509-358-7633, Email: ze.liu@wsu.edu
- Olga Shiva, Phone: 509-358-7873, E-mail: olga.shiva@wsu.edu

Microscopy/Histology/Imaging

Microscopy – Please remember to social distance in the microscopy suite. The upright microscope is less than 6 feet from both the inverted and the Leica confocal microscopes. Use the posted calendars to help others plan their experiments.

Histology – Please submit samples using the [Histology Sample Submission Form](#) available on the Histology Research Service Center website.

Imaging – After a huge effort on the part of the manufacturer, the Quantum has been repaired.

Contacts:

- Megan Chastain – Phone: 509-358-7541, E-mail: megan.chastain@wsu.edu
- Olga Shiva – Phone: 509-358-7873, E-mail: olga.shiva@wsu.edu

Genomics

Contact:

- Dr. Yiyong (Ben) Liu, Phone: 509-358-6741, E-mail: yiyong.liu@wsu.edu
- Dr. Jing Wang, Phone: 509-368-6546, E-mail: jing.wang9@wsu.edu

Nuclear Magnetic Resonance

Contact:

- Sarah Hill, E-mail: sarah.m.hill@wsu.edu

Biomedical Engineering and Design (BMED)

The BMED Research Service Center now has the ability to 3D print three new types of material: carbon-fiber-reinforced nylon filament for load-bearing and structural parts; high-temperature-resistant polymer parts (capable of withstanding 238°C/460°F); and ceramic 3D printed parts (capable of withstanding 1100°C/2012°F). Please email or call if you wish to find out more or would like to discuss a design. You may also fill out the [new work request form](#).

Contact:

- Will Clegern, Phone: 509-368-6750, E-mail: will.clegern@wsu.edu
- Dominic Brenner, Phone 509-368-6918, E-mail: dominic.brenner@wsu.edu