

BIOSAFETY NEWS

Beyond the Risk of Blood Borne Pathogens

As with all human blood, primary and established cell lines and tissues, care should be taken in the laboratory, especially when sharps are involved. However, many are under the mistaken impression that there may not be any risk beyond that of exposure to pathogens.

Needlestick transmission of human tumor cells in the laboratory has been documented. Moreover, there is evidence that embryonic stem cells and induced pluripotent stem cells may also pose a risk for lab workers because many of these cell lines contain a mutation in the gene coding for p53 (references available upon request).

It is important to remember these risks when working with these materials. Never re-cap needles and ensure animals are restrained or anesthetized prior to administration of human cells.



Inside this issue

- [ESC and Human Cancer Cell Risks](#)
- [Lab Safety Fair Thank You](#)
- [Better Bio Awards](#)
- [Biosafety Reminder](#)
- [How Full is Too Full?](#)
- [CRISPR Podcast](#)

LABORATORY SAFETY FAIR 2017

Thank you to all who came to this year's event. The 2017 EH&S Laboratory Safety Fair was the most successful and well attended yet!





Biosafety Reminder:

All vacuum lines in use on the bench top and in BSC's require an in-line filter to prevent inadvertent aspiration of materials into the house vacuum system, and/or aerosolization of materials in the case of self contained vacuum set ups.

Please ensure you have a supply on hand to protect vacuum lines and in the case you need replacement of a clogged filter.

Whatman (HEPA-Vent 6723-5000 and Vacu-Guard #6722-5000) or Millipore (SLFG05010) filters are recommended and are available from VWR

How Full is Too Full?

Safety practices include ensuring your waste containers are disposed of BEFORE becoming over-filled. Below are some guidelines help you decide when it's time to empty your waste or call for a pick up (ex: chemical waste, sharps):

- **Sharps containers:** 2/3 full
- **Chemical waste containers:** 2" below container opening
- **Pipette waste:** 1" below rim of box
- **Autoclavable waste:** bags should be no more than 2/3 full. Over-stuffed bags cannot allow steam to penetrate!



*The Dept. of Biological Safety would like to thank the following labs for setting a shining example of lab housekeeping and maintenance.
Well done!*

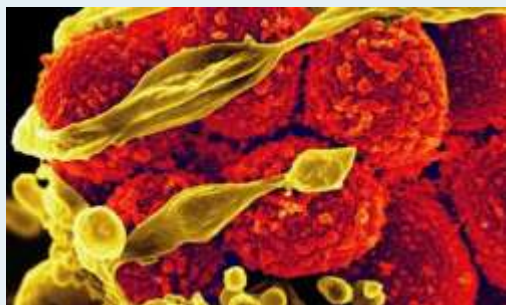
Barrett, T
(CTW)

HOROHOV, D
(Gluck)

Garvy, B
(MED SCI)

CASSIS, L
(CTW)

Andres, D
(BBSRB)



CRISPR

Click on the image to navigate directly to Radiolab

Link: www.radiolab.org/story/update-crispr/

For an engaging and entertaining podcast on CRISPR, check out Radiolabs podcast on the subject!



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As part of the Division of Environmental Health & Safety, the Department of Biological Safety is responsible for programs concerning the safe use of recombinant and synthetic nucleic acids, infectious agents, and potentially infectious materials such as human sourced materials in the research and teaching laboratories at the University of Kentucky. This includes training, auditing, and consulting with researchers, laboratory personnel and teaching staff concerning compliance with the federal and state laws and regulations in these areas.

Visit us on the web!
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