



Allison Hubel <hubel001@umn.edu>

BioCoR: Preservation quality control, short course early registration deadline, analyte stability data and more

3 messages

BioCoR <biocor@me.umn.edu>
Reply-To: biocor@me.umn.edu
To: hubel001@umn.edu

Thu, Apr 14, 2011 at 9:14 AM



BioCoR Newsletter April 2011

Dear Allison,

Welcome to the April newsletter. The newsletter includes an overview of preservation quality control from Fran Rabe, information on the upcoming deadline for short course registration, important new additions to the BioCoR library.

As always, your comments are very important to us. We expect to see you at www.biocor.net.

BioCoR is a national resource focused on advancing the science, technology and practice of biospecimen preservation. We are dedicated to developing biopreservation protocols, improving preservation and storage technologies, establishing standards and guidelines and training individuals and institutions in the science and technology of biopreservation.

More information can be found on the **BioCoR** website: www.biocor.net. Or you may contact us now at biocor@me.umn.edu

Preservation Quality Control Elements

*Preservation Quality Control Elements
Fran Rabe, MS, ASQ CQM*

Quality control (QC), which is a component of quality assurance, is critical to ensuring preservation is performed in a manner that yields the desired results on a consistent basis.

A very basic quality control program should include at least the following elements:

- 1) Standard Operating Procedures (SOPs) that have been reviewed and approved by at least one person in addition to the author ;
- 2) Critical equipment cleaning, calibration and performance verification
- 3) Critical material review and release;
- 4) Stability testing, where applicable.

Critical materials and equipment are those which, if failure occurred during use, the preserved sample could be negatively impacted. Materials that may be critical include (but are not limited to): Sample storage container (vial, bag); sample labels; reagents added or used in the preservation, such as DMSO or Glycerol. Critical equipment include (but are not limited to): Pipette; controlled rate freezer; mechanical freezer; refrigerator; centrifuge; thermometer; storage temperature monitor and alarm; shipping/transport container.

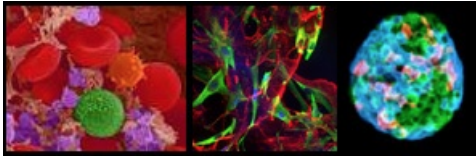
Basic QC of materials includes ordering materials according to predefined and approved specifications. Once the materials arrive at the processing facility they are reviewed to ensure the specifications are met. They are labeled

and placed in an area of the facility separate from non-reviewed or approved materials. At the time of use, the expiration date is reviewed to ensure it has not been exceeded.

A basic equipment QC program includes at a minimum, a defined schedule for cleaning, calibration and maintenance. The equipment operation and performance is verified prior to it's placement in use.

Finally, assuming the integrity of the preserved sample is important; those characteristics that are critical to function are tested periodically over an extended period of time to ensure that when the sample is processed and stored as defined by SOP, the sample performs as desired. These stability data may be the basis of an assigned expiry date of the preserved sample.

.Preservation of molecular, cellular and tissue biospecimens



EARLY REGISTRATION DEADLINE

MAY 2, 2011

Preservation of molecular, cellular and tissue biospecimens
May 23-25, 2010

Please join us for our seventh offering of this important short course that has been attended by people from all over the world (North America, Asia, Europe, etc). The course covers a full range of topics related to preservation: liquid storage/short-term preservation, fundamentals of preservation, mechanisms of damage, preservation protocol development, repository design and facility design, regulatory issues, preservation in a clinical context, quality for preserved samples and more.

This course is appropriate for managers for biorepositories and cell therapy laboratories, technicians who preserve biological samples as a part of their daily routine, scientists involved in biomarker discovery or use, developers of therapies based on molecules, cells or tissues, biotechnology companies, regenerative medicine companies, tissue banks, and more.

The course is available both for in class attendance and over the web.

Direct link to online registration ([online registration](#))

Direct link to accommodations and maps to the course ([maps and accommodations](#))

Two or more individuals from a single institution attending the short course will receive a discount. Please contact Tori at biocor@me.umn.edu or 612.625.6808 for more details.

This professional short course provides a unique opportunity for your company to reach individuals involved in biopreservation from a wide range of fields including cell therapy, regenerative medicine, biorepositories, and cell and tissue banking. If you are interested in sponsorship of the course, please contact us at biocor@me.umn.edu or call Tori at 612.625.6808.

The course has been endorsed by ISBER.

Analyte stability and freeze-thaw information

Elaine Gunter of Specimen Solutions LLP was kind enough to provide BioCoR with a spreadsheet summarizing analytes that are sensitive to the stresses of freezing and/or storage conditions. The table describes over 160 studies on the stability of biomarkers and the specific stresses that result in degradation. The biomarkers sensitive to conventional preservation techniques include nucleic acids (RNA, DNA), proteins, hormones, vitamins, enzymes and more. This is a valuable resource and we thank Elaine for her willingness to share this information.

You can find the table in the [BioCoR Library](#).

What is new in the BioCoR library?

New additions to the [BioCoR library](#) include:

Ask the expert

- Freezing blood clots
- Freezing samples to recover CTCs

Articles of interest

- Stability of MMP-7, TIMP-1, VEGF, VEGF-R1 in serum samples
- Bio-PIN for identifying samples.

Webinar on quality considerations in biobanking ([webinar](#))

Analyte stability and freeze-thaw information from Elaine Gunter (see above).

Hidden gems: The newsletter archive is a hidden gem. They contain the ever popular, "Tip of the Month", feature articles, mini-tutorials and much more ([newsletter archive](#)).



UNIVERSITY OF MINNESOTA *BioCoR would like to acknowledge the support of the College of Science and Engineering and the Academic Health Center of the University of Minnesota.*

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Adriana Melgoza Paez <adrianagmp@hotmail.com>

To: biocor@me.umn.edu

Thu, Apr 14, 2011 at 3:58 PM

Hello! Thank you for contacting me.

Your presentations in the ISBiotech Meeting were very helpful, enriching and interesting. I am going to turn this information to my boss and see if we can participate in the seminar.

Adriana Melgoza.
Veterinary Biologics
Pharmaceutical Products, Chinoín

Date: Thu, 14 Apr 2011 10:17:41 -0400

From: biocor@me.umn.edu

To: adrianagmp@hotmail.com

Subject: BioCoR: Preservation quality control, short course early registration deadline, analyte stability data and more



BioCoR Newsletter April 2011

Dear Adriana,

[Quoted text hidden]

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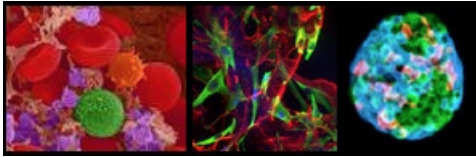
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Allison Hubel <hubel001@umn.edu>

Fri, Apr 15, 2011 at 9:25 AM

To: Adriana Melgoza Paez <adrianagmp@hotmail.com>

Adriana,

Thank you for your kind words. I hope that you can make the short course. I think that it would help you solve some of your problems.

Allison

[Quoted text hidden]

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Allison Hubel, PhD
Professor and Director
Biopreservation Core Resource
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[612.625.4344](tel:612.625.4344) (fax)
