

AIM CORE Newsletter

August 2020

Lots of New Stuff!

We've had a busy month and a half since our last newsletter. We have some upcoming changes in SOP (Standard Operating Procedures), some equipment additions, and some tips/highlights on current equipment.



1) Please note revisions in our SOP

Please [click this link to view our most current Standard Operating Procedure](#). It was specifically reviewed by the Office of Biosafety and Dr. Richard Larson. Please note the required PPE and requisite logging in protocols (Badge @ door, Covid Tracing, and Kiosk Instrument logs). Please take time to review it as failure to adhere to these policies may result in suspension from core usage. We are expected to and will cross reference these logs periodically to ensure safety compliance. **An automatic door closer will be installed shortly, so always remember to bring your badge and swipe in even if you find the door open.

2) Fun little video about our instrumentation offerings

We put together a [short fun video about the cores' instruments](#). Please free free to share if your lab mates or lab neighbors could use some of these capabilities!



3) xFe96 Seahorse is INSTALLED and ready for your 1st Experiment!

"Moose", the Agilent xFe96 Seahorse is now ready for users to run experiments. Due to Covid travel restrictions our original timeline for installation was delayed but now that it's here, the next part of













training is actually scheduling your experiment with Jay Dunn (jay.dunn@agilent.com). He is the best person to consult for which kits would best suit your assay needs and can give you **discount pricing** if you attended the 1st workshop.

We are hoping to schedule several investigators to run their experiments on a specific date soon so that we can organize the 2nd training day around your run. So please let me and Jay know the soonest date you can run your 96 well seahorse experiment.

In case you missed it here is the [link to the Seahorse Training \(Part I\)](#), that took place on 7.15.2020.

And this is a link to a [short intro on the xFe96 Seahorse](#)

Both of these training videos are available in the info section of the iLabs scheduler under the xFe96 Seahorse Scheduler.

 <p>Seahorse XF Real-Time ATP Rate Assay Kit Quantify the rate of ATP production from glycolysis and mitochondrial respiration...</p>	 <p>Seahorse XF Cell Mito Stress Test Kit Assess mitochondrial function</p>	 <p>Seahorse XF Substrate Oxidation Stress Test Kits Each Seahorse Substrate Oxidation Stress Test Kit provides reagents for 3 assays...</p>
 <p>Seahorse XF Palmitate Oxidation Stress Test Kit and FAO Substrate Seahorse XF Palmitate Oxidation Stress Test Kit includes reagents for 3 assays...</p>	 <p>Seahorse XF Mito Fuel Flex Test Kit Measure the use of glucose, glutamine, and fatty acids as mitochondrial fuels in live cells</p>	 <p>Seahorse XF Glycolytic Rate Assay Kit Precisely measure glycolysis in live cells under normal physiological conditions.</p>
 <p>Seahorse XF Glycolysis Stress Test Kit Measure glycolytic capacity after glucose starvation</p>	NEW  <p>Seahorse XF Hu T Cell Activation Assay Kit Each Kit provides reagents for 2 full plate assays with XFe96/XF96 Analyzers</p>	 <p>Seahorse XF Cell Energy Phenotype Test Kit Rapidly determine cellular energy phenotypes and investigate metabolic...</p>
 <p>Seahorse XF Plasma Membrane Permeabilizer A detergent-free cell permeabilization reagent</p>	 <p>Seahorse XF Media, Supplements & Calibrant Media and calibrant specifically formulated for Agilent Seahorse XF assays</p>	 <p>MitoXpress Xtra Oxygen Consumption Assay Measure extracellular oxygen consumption rates (OCR)</p>

4) Guava Flow Cytometer will be available very soon!

The Guava® easyCyte™ HT is getting updated, calibrated and ready for training. If anyone would like to join me virtually for a zoom training on Thursday @ 1pm:

Topic: Guava Training

Time: Aug 27, 2020 01:00 PM Mountain Time (US and Canada)



Join Zoom Meeting

<https://hsc-unm.zoom.us/j/94652882124>

Meeting ID: 946 5288 2124

2020 Virtual Imaging Flow Cytometry Learning Sessions

Learn about the Amnis® ImageStream®X Mk II Imaging Flow Cytometer and IDEAS® Software.

5) Amnis Training Available! Register today!

September 1–3, 2020

Virtual Sessions Hosted in CST

Join us for the Virtual Imaging Flow Cytometry Learning Sessions from September 1st through the 3rd. This event will provide information on the Amnis® ImageStream®X Mk II Imaging Flow Cytometer, including the ImageStream process workflow, as well as an overview of IDEAS® Software, including compensation, wizards, and data analysis.

Session topics include:

- IDEAS Software topics, including compensation, nuclear localization, and the Feature Finder wizard
- Q&A sessions on new technologies, including Machine Learning and Amnis AI
- Making connections during Q&A sessions with Luminex Field Applications and Technical Support teams

[LEARN MORE](#)

Register today!

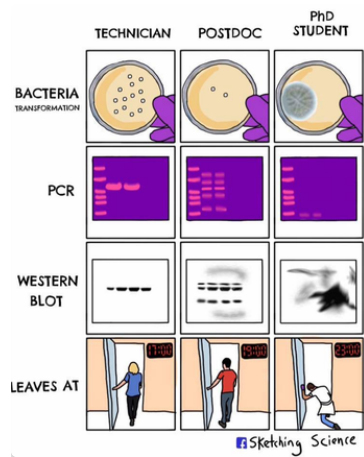
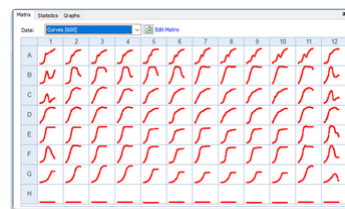
The last day to register is **Friday, August 28, 2020**. Why wait? Register today. Visit our website for the complete agenda at: luminexcorp.com/luminex-learning-sessions/.

Need more information?

Contact Terrin Blackmon at tblackmon@luminexcorp.com for more information on this event.

Edge Effect is so Real! (Biotek)

Just a friendly reminder that imaging plates edge effects can impact your data from samples on the periphery of your plate. Pictured here is a plate that had replicate samples going across the entire row and monitoring growth over 24 hours. Notice the wells on the edges are very affected by edge position. This data was imaged on the Biotek plate reader but edge effects have been observed on the Cellomics machine as well.



Keep on keeping on

Lab life (especially under COVID) can be tough. Stay strong and remember that you are awesome and part of a community fighting "the good fight" against ailments and diseases of all kinds. Let's add some levity. . . I invite you to share funny lab memes and post them (tape or magnets) on our -80C freezer in the core.

I am hosting 2 virtual contests:

1) Best Image/Data Contest: Submit an image that was generated in the AIM Core with a brief description of why it's awesome. All submissions will be anonymously shared in a special newsletter issue where users can vote on their favorite submission. (It could even be a very sensitive gel, that you finally got to work. Doesn't have to be a 4 color confocal image, just something you're very excited about). Submission deadline is September 30.

2) Second contest: Share something you learned in the AIM core that was very helpful to you and could be helpful to another user. Seems simple right? Again, we'll let the other users decide on your little tip.

Email me your submissions with the word "contest" in the subject. Prizes TBD. Winners announced October 1

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