Welcome to the first ISAC SRL newsletter

This is the first edition of the ISAC SRL newsletter, we hope that it can become a source for Cytometry related SRL information and helps bring the SRL community a little closer together. The newsletter will come out quarterly highlighting upcoming events and other SRL related content.

The newsletter is put together by the ISAC SRL Services Committee (see article on page 2) but we always welcome your input, so please reach out if you have content you’d like covered. In these extraordinary times, we understand that it is very much not “business as usual” and we hope you are all staying safe and sane. To try and get a better understanding of the current COVID crisis and how it affects Cytometry SRLs, we have put together a COVID 19 questionnaire (see page 3).

We also understand that COVID is not the only thing currently happening so, in this issue, we also discuss the ISAC SRL Recognition Program (page 2), highlight the WEST VIRGINIA UNIVERSITY FLOW CYTOMETRY & SINGLE CELL CORE FACILITY (page 5), provide the results of the recent SRL Website content survey (page 4) and provide a list of current SRL related activities (page 6).

https://isac-net.org/page/SRL
The Shared Resource Lab (SRL) Services Committee grew out of the SRL task force that was established to better serve and represent the unique role of managers and staff who run SRLs.

Setting Best Practices

The task force was responsible for creating SRL track content for CYTO and in 2016 published Barsky et. al. “International Society for Advancement of Cytometry (ISAC) Flow Cytometry Shared Resource Laboratory (SRL) Best Practices” Cytometry part A 89A: 1017-1030, 2016, a comprehensive document to define minimal standards for flow cytometry shared resource labs and provide guidance for best practices. This has become the standard for SRL’s to implement in order to achieve excellence. One of the SRL Services Committee’s goals is expanding on the Barsky et al paper to create the ISAC SRL Recognition Program. This program will be a way for labs to demonstrate that they have implemented policies, procedures and workflows that follow the best practices guidelines and receive recognition through ISAC that will highlight the SRL’s ability to provide support and instrumentation that satisfies the need for rigorous and reproducible data for their researchers. The SRL Committee is continuing to work on this program by creating an application process while defining the overall structure and benefits of the program. More information to come as the pieces are put in place to launch the program.

What else does the committee do?

This newsletter is part of an initiative to enhance the communication and community of SRLs through ISAC. We are working on the SRL portal for the ISAC website, which will include a SOP repository dedicated to SRL management and operations. The committee will be reaching out to you in the coming year for your input through surveys and eventually submissions that will be accessible to the cytometry community.

CYTO2020 Philadelphia

Unfortunately, CYTO2020 has been cancelled due to the COVID-19 pandemic. Stay tuned to ISAC for more information about the possibility of a virtual meeting later this year. We look forward to connecting again in person at CYTO2021.

List of current SRL Services Committee members

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
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<tbody>
<tr>
<td>Michael Gregory</td>
<td>New York, USA</td>
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<tr>
<td>Kathy Brundage</td>
<td>Morgantown, USA</td>
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<tr>
<td>Derek Davies</td>
<td>London, UK</td>
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<tr>
<td>James Marvin</td>
<td>Salt Lake City, USA</td>
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<tr>
<td>Eva Orlowski-Oliver</td>
<td>Melbourne, Australia</td>
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<tr>
<td>Radhika Rayanki</td>
<td>Bethesda, USA</td>
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<tr>
<td>Joel Sederstrom</td>
<td>Houston, USA</td>
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<tr>
<td>Juan Vallejo</td>
<td>Amsterdam, Netherlands</td>
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<tr>
<td>Christian Kukat</td>
<td>Cologne, Germany</td>
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<tr>
<td>Andrea Cossarizza</td>
<td>Modena, Italy</td>
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<tr>
<td>Michele Black</td>
<td>Seattle, USA</td>
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<tr>
<td>Kathleen Daniels</td>
<td>New York, USA</td>
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<tr>
<td>David Gravano</td>
<td>Merced, USA</td>
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<tr>
<td>Svetlana Mazel</td>
<td>New York, USA</td>
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<tr>
<td>Charlotte Petersen</td>
<td>Aarhus, Denmark</td>
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<tr>
<td>Aja Rieger</td>
<td>Edmonton, Canada</td>
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<tr>
<td>Rob Salomon</td>
<td>Sydney, Australia</td>
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<tr>
<td>Gert Van Isterdael</td>
<td>Ghent, Belgium</td>
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<tr>
<td>Jonni Moore</td>
<td>Philadelphia, USA</td>
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https://isac-net.org/page/SRL
The SARS-CoV or Coronavirus has affected the lives of virtually every person in the world. The Shared Resource Lab Services Committee sends best wishes for returned health for those who have contracted the virus.

As we navigate how to alter our routines and manage the new challenges that we all face in our daily lives, we additionally must navigate how to move forward in managing our SRLs. We would like to invite you to share your experiences as it relates to the operation and management of your lab during the pandemic.

We have created a survey for labs to share what their SRL is doing in response to the pandemic.

Please follow this [LINK](https://isac-net.org/page/SRL) to take the survey. Since this topic is of high immediate interest, we would like to get the survey results and information out to labs in a timely manner. The survey will close on [May 15th](https://isac-net.org/page/SRL) with results being shared soon after the closing date.

Useful laboratory and biosafety links related to SARS-CoV-2 and COVID-19

[SARS-CoV-2 SORTING PROTOCOLS](https://isac-net.org/page/SRL)

[CDC COVID-19 Information for Laboratories](https://isac-net.org/page/SRL)

[WHO Laboratory Biosafety guidance related to 2019-nCoV](https://isac-net.org/page/SRL)

[German BioImaging Shared Laboratory COVID-19 Recommendations](https://isac-net.org/page/SRL)
The SRL services committee sent out the first of several surveys to gauge the community interest in a SRL specific SOP repository and a portal on the ISAC website. Other information gathered was how people engage with each other on social media, user groups and forums. We had 115 people participate in the survey. Below is a summary of the results. It is clear that there is significant interest in a SOP repository. A more detailed survey about the SOP repository will be sent out soon.

### How are you connected to a SRL?

- Manager/Director: 59.6%
- Staff: 35.7%
- User: 4.3%

### Where are you geographically located?

- United States (USA): 45.6%
- United Kingdom: 14.9%
- Australia: 9.6%
- Canada: 7%
- Mexico: 2.6%
- Spain: 2.6%
- Denmark: 2.6%
- Switzerland: 1.7%
- Czech Republic: 1.7%
- Italy: 1.7%

### If there was a Portal on ISAC’s website under the SRL section with links to a wide variety of topics related to running a SRL, would you use it?

- Yes: 79%
- Maybe: 20%
- No: 1%

### What content would you be most interested in accessing on the Portal?

- SOP Repository: 83.4%
- Discussion group: 44.3%
- SRL Directory: 81.7%
- SRL specific events: 0.9%
- SRL Management Topics: 0.9%

### Where do you prefer to discuss SRL content or issues on social media?

- ISAC Social Link: 29.6%
- Purdue listserv: 62.6%
- Various facebook groups: 26.1%

### How often do you visit online discussion groups related to flow cytometry or SRL issues?

- Weekly: 41.7%
- Monthly: 22.6%
- Rarely: 20.9%
- Daily: 14.8%

### How often do you contribute to online discussion groups related to flow cytometry or SRL issues?

- Weekly: 6.1%
- Never: 10.4%
- Monthly: 18.3%
- Rarely: 63.5%
- Daily: 14.8%

### If there was an online community specifically for SRL discussion would you find that useful?

- Yes: 74.8%
- Maybe: 24.3%
- No: 0.9%

### If the Portal contained a repository of SOPs regarding SRL operation at ISAC’s website, would you find this useful?

- Yes: 91.3%
- Maybe: 8.7%
- No: 0%
1. Location

West Virginia University’s Health Sciences Campus in Morgantown West Virginia USA

2. Meet the staff

Facility Director: Kathleen Brundage, Ph.D.
Undergraduate Student Works:  John Michael McCoy
Maddy Alascio
Lindsay Knight

3. Instrumentation in the facility

BD LSRFortessa - 4 lasers, 17 colors
BD FACSAria III - 4 lasers, 13 colors
Fluidigm - C1 Auto Prep System
Malvern Panalytica NanoSight NS300 - submicron particle detection
Malvern Panalytica Zetasizer NanoZ - measures zeta potential
Meso Scale Discovery QuickPlex SQ120 - multi-analyte detection
Miltenyi Biotec AutoMACs PRO - magnetic cell separator
Miltenyi Biotec gentleMACs - tissue dissociator

4. What recent accomplishment in your lab are you most proud of?

The facility has seen a 25—35% increase in usage of the flow cytometers in each of the last 3 calendar years (2017, 2018 and 2019) from the previous year. This increase usage is due in part with an increase in non-immunologist discovering the many uses of flow cytometry. Examples: one group of neuroscientists looking at astrocytes and cytokines in brains and other group looking at the effect of immune cell subpopulations on depression.

5. What is the most unique/odd sample have you analyzed in the facility?

A graduate student in the Geology department, brought water samples from streams in which she had added fluorescent beads to in order to map a water system.

Call for submission: Want to have your SRL highlighted? Fill out our SRL form Here to be next. Or copy this link https://forms.gle/JEMPJTZkAwNWFrF228
## ISAC SRL related Meetings and Webinars

The SRL Services Committee is making every effort to keep us connected and we would like to add your meetings or webinars to the next SRL Newsletter, please fill out the submission form. We are planning to have a link on the ISAC SRL website with the most up to date meetings and webinars available based on your submissions.

CYTO U has made all of their content free to all. Below is a list of recent webinars. For more visit [CYTO U](https://isac-net.org/page/SRL).

### In Person Meetings

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Dates</th>
<th>Location</th>
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<tbody>
<tr>
<td>CYTO 2020</td>
<td>Cancelled</td>
<td>Philadelphia, Pennsylvania USA</td>
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<tr>
<td>CYTO 2021</td>
<td>June 12-16, 2021</td>
<td>Brussels, Belgium</td>
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### Virtual Meetings

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Dates</th>
<th>Details</th>
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<tbody>
<tr>
<td>MetroFlow: Corporate Member Seminar Series</td>
<td>May 11-15, 2020</td>
<td>27 talks over five days by MetroFlow (regional NY/NJ flow users group) corporate members</td>
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### Webinars

<table>
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<tr>
<th>Program</th>
<th>Details</th>
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<tr>
<td>FlowTex recorded webinars</td>
<td>FlowTex mission is to provide education and discussion for the flow cytometry labs and users in Texas and surrounding areas</td>
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<tr>
<td>Francis Crick Institute &quot;What's On&quot;</td>
<td>Scientific seminars, lectures and training.</td>
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### CYTO U Webinars

#### Recently Added

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
<th>Date/Link</th>
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<tbody>
<tr>
<td>Intelligent Image-Activated Cell Sorting: A Tutorial</td>
<td>Keisuke Goda, Ph.D.</td>
<td>Available now <a href="https://isac-net.org/page/SRL">Here</a></td>
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<tr>
<td>High-Speed Cell Sorter Biosafety and Containment Testing</td>
<td>Geoffrey Lyon, M.P.H.</td>
<td>Available now <a href="https://isac-net.org/page/SRL">Here</a></td>
</tr>
<tr>
<td>Handling Challenging Samples within an SRL Core</td>
<td>Nicole Poulton</td>
<td>Available now <a href="https://isac-net.org/page/SRL">Here</a></td>
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#### Upcoming

<table>
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<tr>
<th>Topic</th>
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