

## Newsletter: Volume 2 - September 2024

### RECENT NEWS:

We welcome our new graduate students and new faculty member, Katheryn Rothenberg, to the Department of Biology.

Don't miss the Next CCG Newsletter which will focus on the QuantStudio QS3 qPCR machine.

#### Upcoming Events:

Research Vendors Fair on October 30

Applications Seminar on November 20

#### CCG Services:

<https://biology.uiowa.edu/research/carver-center-genomics-ccg/services>

### CCG UPDATES

With the start of a new academic year and new people joining the department, the CCG would like to focus this newsletter on standard policies and procedures for utilizing our facility. Some of these are reminders for current users and some are changes to current procedures. Please take the time to review the information below. You are always welcome to contact Christine Kondratick, CCG Director, ([ccg@uiowa.edu](mailto:ccg@uiowa.edu)) with any questions. I am happy to help you with your research.

- **Upcoming CCG Events:** The CCG will be holding Applications Seminars for the coming academic year, one per semester. These seminars will focus on a current piece of equipment available for use in the CCG. This is a great way to learn about various types of experiments that can be done with our instruments. Each seminar is presented by the company's applications specialists who are highly trained and knowledgeable scientists. The seminars are also accompanied by a free lunch! I encourage you to take advantage of these opportunities and broaden your research expertise. Look for the announcement of our Fall 2024 seminar in next month's newsletter.

The CCG will be attending the campus-wide Research Services Vendor Fair again this year on October 30, 1:00-4:30pm at the IMU. Exciting NEW giveaways are planned for this event, so you don't want to miss out! This is another great event to attend to see all the core research facilities that are available across campus. Mark your calendars.

- **NEW Sequencing Results Change:** How you receive your sequencing results has changed to make the process more streamlined. You no longer need to download the results from the Biology services server. Your results will be emailed directly to you by a reply to your sequencing submission form sent to the CCG email address ([ccg@uiowa.edu](mailto:ccg@uiowa.edu)). This allows you to have both the submission form and the results in the same

email thread so you can cross check your samples. The sequencing submission form can be found on the CCG website for download along with the template requirements. <https://biology.uiowa.edu/research/carver-center-genomics-ccg/services>

- **New Sequencing Results Format:** The results file format for samples run has changed. You will now receive your results files in the following format: "Sample name.Plate well location" (For example: CMK23.CO9.ab1). This change was made to help you cross-check that your samples are labeled correctly, and in the order you submitted in the form. The samples are loaded into 96 well plates in columns 1-12 starting with the first sample in row A going through H before moving to the next column. For example: Submitted samples: CMK22-CMK25 would look like the following in the sequencing results file: CCG-ctrl\_M13R. A09, CMK22.B09, CMK23.CO9, CMK24.D09, CMK25.E09, then the next submitter's samples fill the remainder of the column or blanks. Your samples might start in the middle of the column and in this example it would look like: "your name.F09", etc. Also, note you will receive a control sample file in your compressed results file. This addition is so you can confirm that the control was run and looks good. All sequencing results are viewed and checked by the CCG staff before being sent out. If

## Contact Us

### Carver Center for Genomics

232 Biology Building  
129 E. Jefferson St.  
The University of Iowa  
319-467-4430

[ccg@uiowa.edu](mailto:ccg@uiowa.edu)

<https://biology.uiowa.edu/ccg>

Christine Kondratick, PhD  
CCG Director

there are any problems with controls that suggest a machine or processing error, your samples will be re-run on the next sequencing processing day, and you will be notified by email.

- **New Fragment Analysis:** Now available on the CCG website under services (link above in orange box) is a fragment analysis submission form for download. This is for samples that are to undergo fragment analysis instead of sanger sequencing. For more information on using the ABI 3500 Genetic Analyzer for fragment analysis, please see the CCG's October 2023 Newsletter (<https://biology.uiowa.edu/research/carver-center-genomics-ccg/newsletter>).
- **Labeling qPCR files:** Please label the file for your qPCR runs as follows: "Your initials-sample name". This new file label allows for easy cross-check identification of your runs and enables the CCG staff to correctly identify runs for accurate billing. You are still required to reserve the machine for use online and note if you are doing multiple runs in the comments (<https://servicecenters.biology.uiowa.edu/login.php>).
- **Reminder:** A sign-in log sheet is next to the Cytation 5 machine, located in 224 BBE. Please continue to log your runs and number of plates in addition to scheduling time online. Also, please note on the sign-in sheet if you log into the machine to just download data (for example: Date, Name, Lab, "data"). The machine logs are cross-checked and this will enable accurate counting of the number of runs done for billing purposes.
- **BioAnalyzer and Cell Sorter Analysis:** Samples for analysis using both instruments needs to be scheduled with the CCG staff prior to submitting samples and submission forms which are available on the CCG website under "Services" (link in orange box above). There are guidelines detailed on the website for you to follow, so please review before contacting the CCG via email ([ccg@uiowa.edu](mailto:ccg@uiowa.edu)).
- **Location Change:** The ddPCR System has moved from the 3<sup>rd</sup> Floor of BB to the CCG (232 BB). The Classic LI-COR System has been placed on the 3<sup>rd</sup> Floor in the Common Equipment Room (343 BB in the far back area). Please sign the log-in sheet if you use the Classic LI-COR System and log your time in the online system.
- If you have any questions or would like to be added to our listserv for future newsletters, please email the CCG ([ccg@uiowa.edu](mailto:ccg@uiowa.edu)).

### Important Use Information:

Please reserve a time to run your experiments using the online scheduling system: <https://servicecenters.biology.uiowa.edu/login.php>. Email the CCG ([ccg@uiowa.edu](mailto:ccg@uiowa.edu)) to remove your reservation if you need to cancel. This will allow other labs to sign-up in your canceled spot. Please leave the PCR 2 machine open for sequencing analysis on Tuesdays and Thursdays.

### Billing Information:

Billing is done monthly and billed to each lab's active MFK. If you have multiple active MFK's, please indicate in the comments section or select via the drop-down menu of the scheduling system the grant to be billed. We can name each of your MFK's in the billing system to make this easy for personnel to identify the correct grant to use. This will help us correctly bill your grants, thus avoiding having our Accountant go back and reassign usage to a different grant. Thank you.