STANDARD OPERATING PROCEDURE – FACS Canto II:
Start-up, Cleaning and Shutdown

START-UP – Only if you are the **first user** of the day and the facility staff have not started the instrument.

1. Turn on the FACS Canto II and wait until the colored lights flash 3 times.
2. Log onto FACS DiVa software using your OWN username and password.
3. Check FLUIDICS levels and replace if necessary.
4. Disconnect sensor and fluidics lines first before replacing the empty tank.
5. Choose Cytometer Menu -> Start-Up Fluidics (this takes about 7 minutes).

CLEANING AFTER EACH RUN – ALL USERS

1. In DIVA, add 3 new tubes and name "BLEACH", "CLENZ", and "WATER" for recording cleaning.
2. Insert a tube of 3 mL of 10% bleach or FACSClean. **RECORD** for 3 minutes on HIGH.
3. Insert a tube of 3 mL of Coulter Clenz. **RECORD** for 3 minutes on HIGH.
4. Insert a tube of 3 mL of dH$_2$O. **RECORD** for 3 minutes on HIGH.
5. Remove tube from instrument and log out or close software.
6. All data is exported automatically to the FCS folder shortcut on the desktop as FCS 3.0 files.
7. Empty Waste Tank down the sink with running water.
8. Clean up any spills, throw away any garbage and take your belongings with you.
9. Check the instrument schedule to determine if you are the last user of the day. If so, continue with shutdown procedure.

SHUTDOWN OF THE FACS CANTO II – LAST USER OF THE DAY

There is no need to shut down between different users. Please check the online bookings schedule to confirm you are the last user of the day.

1. Choose Cytometer Menu -> Shutdown Fluidics. (This takes about 5 minutes).
2. Close the FACS DiVa Software and switch off FACS Canto II.
3. Wipe any excess fluid off the SIT and do NOT leave any tube on the SIT.
4. Empty Waste Tank down the sink with running water.

REPLACEMENT and PRIMING OF THE TANKS

1. Disconnect the sensor fluidics lines, remove the tank, and then remove sensor from tank.
2. Insert the sensor into the new tank.
3. Place the new tank back on the fluidics cart with opening in the back and reconnect.
4. Choose Cytometer Menu -> Cleaning Modes -> Prime After Tank Refill.
5. Select the tank(s) you wish to prime, then click OK.
6. Wait until tank prime is complete, then continue with experiment.

DATA THAT IS OLDER THAN 1 MONTH WILL BE DELETED!

NEW: Deviations from SOP (INCLUDING FAILURE TO RECORD CLEANING) that result in instrument downtime or inhibit the next user from typical use will incur extra charges! Please see current billing policy for details.