Note: Running QC takes approximately 5 minutes and should be performed every 24 hours
Windows login: username: Administrator
password: BDIS#1

Prepare Cytek SpectroFlo beads:

1. Obtain SpectroFlo bead vial from small fridge (Check lot Number, SKU # N7-97355)
2. Vortex bead vial
3. Prepare the bead suspension by adding 1 drop of beads to ~300uL of diH2O in a FACS tube

Warm up instrument and run QC:

1. Ensure instrument is on (round button on left-hand side of instrument) and log into PPMS
2. Open **SpectroFlo** and login
   username: Admin
   password: *********
3. Go to **QC & Setup** module
4. Confirm instrument has warmed up for at least 20 min.
5. Remove diH2O tube from sample injection port (SIP)
6. Vortex the bead suspension and install the tube on the instrument
7. The Start button in the software will become enabled
8. Make sure bead lot on bottle matches lot in software and hit **Start**
9. A dialog box will display when QC has completed. Possible results are:
   a. PASSED
   b. FAILED – Run clean FLOWCELL in Cytometer menu x2 and run purge bubble filter in Cytometer menu then re-run QC.
   c. CONTINURED FAILURE – notify Flow Core staff immediately by submitting an incident report via PPMS
10. Click **View Report** or **Close**
11. Remove bead tube from instrument and perform two SIT flushes (**Cytometer** menu) to clean excess beads from the sample line
12. Place the tube of diH2O back on SIP
13. If not running samples, sign out of SpectroFlo and log out of PPMS
14. If running samples, proceed to experiment set up by navigating to the **Acquisition** module

This SOP was adapted from Cytek Biosciences Video Tutorial “System Startup and QC”, found here:

https://tinyurl.com/u2rb2wm