

**Washington University in St. Louis - School of Medicine
Department of Pathology and Immunology**

Flow Cytometry Core Facility

FacsCalibur

Start Up

1. Switch On the FACSCalibur with the green switch on the right side panel.
2. Switch On the Computer afterwards.
3. Check if PBS tank is full.
4. Pressurize the PBS Tank (pull valve down).
5. Log in
6. Start CellQuest and connect to cytometer (Acquire→Connect to Cytometer)
7. Open status window (Cytometer→Status)
8. Take out the H₂O tube (left on during the previous shutdown procedure) and press PRIME.
9. When the light switches back to STANDBY, proceed as follows.
 - Place Bleach 5%, put the machine speed on HIGH and press RUN. Let it run for 2min.
 - Place a tube with H₂O for 2min at HIGH speed.

Cleaning

When finished acquisition, clean up the machine:

- Run 5min Bleach at HIGH speed.
- Run 5min H₂O at HIGH speed.

When finished with clean up verify if there is anybody reserved after you.

- ❖ **If YES:** put the machine on **STANDBY**. Leave one tube with about 1ml water.
 - Refill the PBS Reservoir.
 - Empty the waste tank.
- ❖ **If NOT:** follow the SHUTDOWN procedure explained below to shut down the machine properly.

Shutdown

1. After having cleaned up the machine put the machine on ‘**STANDBY**’ and remove the sheath pressure (push valve to the back)
2. Install a sample tube with 2 ml (NOT MORE!) of H₂O.
3. Quit CellQuest.
4. Switch OFF the computer
5. Switch OFF the FACSCalibur on the right side panel.
6. Refill the PBS Reservoir.
7. Empty the waste tank.

