

## **Influx operation**

### **Starting up**

- \*Turn on electronics**
- \*Open Spigot 6.0**
- \*Go to sort icon “Present tray”**
- \*Clean plates (Make sure they are not turned on)**
- \*Put receptacle under the cell exit line**
- \*Empty waste**
- \*Open all valves (sample, purge, sheath)**
- \*Open vacuum and air line on the wall**
- \*Turn air switch on.**
- \*Make sure all lines are clear of fluid.**
- \*Close all valves.**
- \*Turn air off**
- \*Press red button on sheath tank to depressurize**
- \*Remove sheath tank and rinse with Milli-Q**
- \*Fill with 10% bleach and replace.**
- \*Flip air switch on.**
- \*Open sheath valve and let bleach run through for 10 minutes.**
- \*Repeat with MilliQ.**
- \*Then put sheath fluid on.**
- \*Flush system by opening purge valve.**
- \*Run fluid through lines for 2 minutes then close purge and sheath valves**

### **Nozzle**

- \*Sonicate nozzle for 5 minutes**
- \*Flush nozzle both ways using the syringe with 0.2um filtered MilliQ.**
- \*Put nozzle in black adapter with O-ring.**
- \*Remove receptacle and screw nozzle on.**
- \*Open the sheath valve to start the stream.**
- \*Rinse conical and fill with MilliQ**
- \*Submerge nozzle and open purge valve.**
- \*Open and close sample valve to loosen bubbles.**
- \*When nozzle is free of bubbles open the sheath valve and close the purge valve.**
- \*Dry the sides of the nozzle tip with cotton swab.**
- \*Turn on the illumination buttons.**
- \*Allow 2-3 hours for warmup**

### **Lasers**

- \*Open water intake hoses for the laser/lasers you will be using.**
- \*Turn on the pump in the adjacent room.**
- \*Turn on the laser/lasers you will be using with the key.**
- \*Turn on the laser/lasers display panel above.**
- \*Allow 30 minutes for warmup.**

## **Shutting Down**

- \*Close sample valve.**
- \*Close slider.**
- \*Turn off plate current**
- \*Turn off the laser display panel and laser with key.**
- \*Turn off the pump in pump room.**
- \*Close intake and outtake valves near laser.**
- \*Load a sample of 10% bleach and let it run for 5 minutes,**
- \* Repeat with MilliQ.**
- \*Turn off sheath valve.**
- \*Turn off air and depressurize sheath tank.**
- \*Rinse sheath tank and fill with 10% bleach.**
- \*Remove the nozzle, clean, and sonicate.**
- \*Put receptacle on and turn on air.**
- \*Open the sheath valve and flush system for 15 minutes.**
- \*Open and close the purge line to flush purge line.**
- \*Repeat with MilliQ**
- \*Empty sheath tank.**
- \*Turn on air and open purge valve, sheath, and sample valves.**
- \*Let the system dry.**
- \*Spray down the sample line, receptacle, and area with MilliQ**
- \*Make sure area is cleaned of salt.**
- \*Empty waste.**