

EasiGLOW glow discharge protocol

Location:

DE-797 (EM sample prep room)

General rules:

- Do not use the easiGLOW unless you have been trained by EM staff
- Be careful with the bell jar
- Clean up after yourself in DE-797
- Report any problems to Caleigh ASAP

Sign-up rules:

- Glow discharger use is included with your VB or NS bench time
 - Please book 30-min NS bench time if you are only using easiGLOW
- Door access can be requested from Caleigh (cazumaya@fredhutch.org)

Training plan:

- Training will be covered in VB or NS bench training, please contact Caleigh with questions.

Training objectives:

- Glow discharge grids without damaging apparatus

User provided materials:

- Grids to glow discharge

Shared resource tools list: if anything is missing/broken, please contact Caleigh ASAP

- easiGLOW glow discharger, gloves

Glow discharge protocol:

- Turn power switch on top of easiGLOW
- Verify settings are correct, should not be changed
 - 15mA, 30s, 15s hold, 0.39mbar vacuum
- Lift bell jar carefully and set in foam holder
- Lay slide with grids on the slot of the glow discharge stage (Please wear a glove!)
- Replace bell jar carefully over stage and settle onto o-ring
- Press “Auto Run”
 - Chamber will pump down
 - Gas will bleed in
 - Vacuum will pull again and hold for 15s
 - Glow discharge will run for 30s
 - Chamber will vent
- Wait until button says “Auto Run” again
- Gently rock bell jar to break seal and move to foam holder
- Remove grids with gloved hand and store safely to proceed with staining or freezing
- Replace bell jar carefully and settle onto o-ring
- Turn off power switch on top of easiGLOW