Lund Nano Lab - Process
Locations: Wet benches
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General Wet bench Instructions

Chemical work is only allowed in dedicated areas (Wet bench, fume hood)

How to succeed with chemical part of your experiment.

Preparations before work:

1. Complete the wet bench training (Natalia Volkova).
2. Read carefully the Safety Data Sheets (SDS) and write your Risk assessment (RA) in KLARA. You must specify the approx. volumes of the chemicals involved in your process.
3. Get your RA approved by Natalia Volkova or Ivan Maximov.
4. Book the Wet bench in LIMS to allow time for both careful preparation and cleanup.

When you are about to start your experiment, plan your work in detail:

1. Check that you have all required chemicals. If not contact Chemical Responsible.
2. Visually inspect the wet bench for spillage, chemical traces and broken wafers/glass. The wet bench must be clean and dry. Contact lab staff if you think it needs attention.
3. Check air-flow direction: paper deflection taped to the sash should go into the wetbench.
4. Think about glass/plastic wear, choose appropriate beaker size (see your RA), collect all beakers/materials needed. (It is not a good idea to run around the lab during the experiment to try to find more, time can be a crucial factor for good results!)
5. Check the PPE is available and clean for your safety. Don't use dirty or damaged equipment!
6. Organize your working space so sample transfers between process steps are convenient.
7. Pick up the chemicals from chemical cupboard.
8. Before starting, check waste bottle availability. If needed, prepare it: take the right size of empty bottle (think about the material: glass or plastic), mark it with a proper label.

We wish you a good luck with your experiments!

Cleanup after your experiment:

1. Dispose of used chemicals into dedicated waste bottles. **Do NOT** tighten waste bottle caps!
2. Rinse used glassware or plasticware thoroughly with DI water, then place in the basin for dirty glassware. Lab assistants will place these in the dishwasher.
3. For heavily contaminated solvent/resist glassware clean with fresh solvent before DI rinse.
4. Dispose of wet wipes in bins under the wet benches. (NOT the open cleanroom bins).
5. Inspect the wet bench to ensure everything has been cleared away and equipment is off.
6. Rinse the chemical protection gloves well with DI water and wipe them dry. If you used disposable nitrile gloves, change these to prevent contamination of surfaces.
7. Close the sash of the fume hood.