**Glasses preparation**

**Day 1- Acids**

1. Place 22X22 cover glasses in the plastic stand, place it in the designated glass container, and place in the organic hood, inside a nylon bag.
2. In a clean glass graduated cylinder, place 200 ml nitric acid 70%, 100 ml hydrochloric acid.
3. Stir the acid mix, pour it into the glass container, close the nylon bag and leave in the hood O.N.

**Day 2- washes, silans**

1. Wash thoroughly the 2 white plastic containers: water, distilled water, double distilled water, fill them with DIW.
2. By using the designated metal holder, remove the plastic holder and wash it in the hood using DIW, to remove acid remains.
3. Insert the plastic stand to the white container with DIW, move gently to clean. After a few minutes, remove from the container, wash above the sink using DIW.
4. Insert into the second container containing DIW, again move gently.
5. Wash the first container with X3 water then ethanol 96%. Remove the plastic stand from the water, wash with DIW, then ethanol.
6. Insert into the plastic container containing the ethanol. While the plastic stand is in the ethanol, clean the second plastic container and insert ethanol.
7. Remove from the container, wash above the sink using ethanol, and insert into the second container containing ethanol.
8. While the plastic stand is in the ethanol, prepare the silane solution:
   1. Into 300 ml DIW (inside a beaker) add 1,300 ul of N-N-N silane
   2. Add 180 ul vinyl silane
   3. Place on a stirrer in high speed for ~10 minutes
9. Wash the plastic stand with ethanol, and dry with N2 in the hood.
10. Place it in the clean designated glass container, pour in the silane mixture, cover it and rap with nylon.
11. Place in the incubator:
    1. 65⁰C
    2. 25 rpm
    3. 17.5 hours (1050 minutes)

**Day 3- washes**

1. Wash twice with DIW, as described in day 2.
2. Wash twice with ethanol, as described in day 2, second wash is performed in the plastic container where the glasses are kept.
3. Keep closed in 4⁰C.