Supplementary information

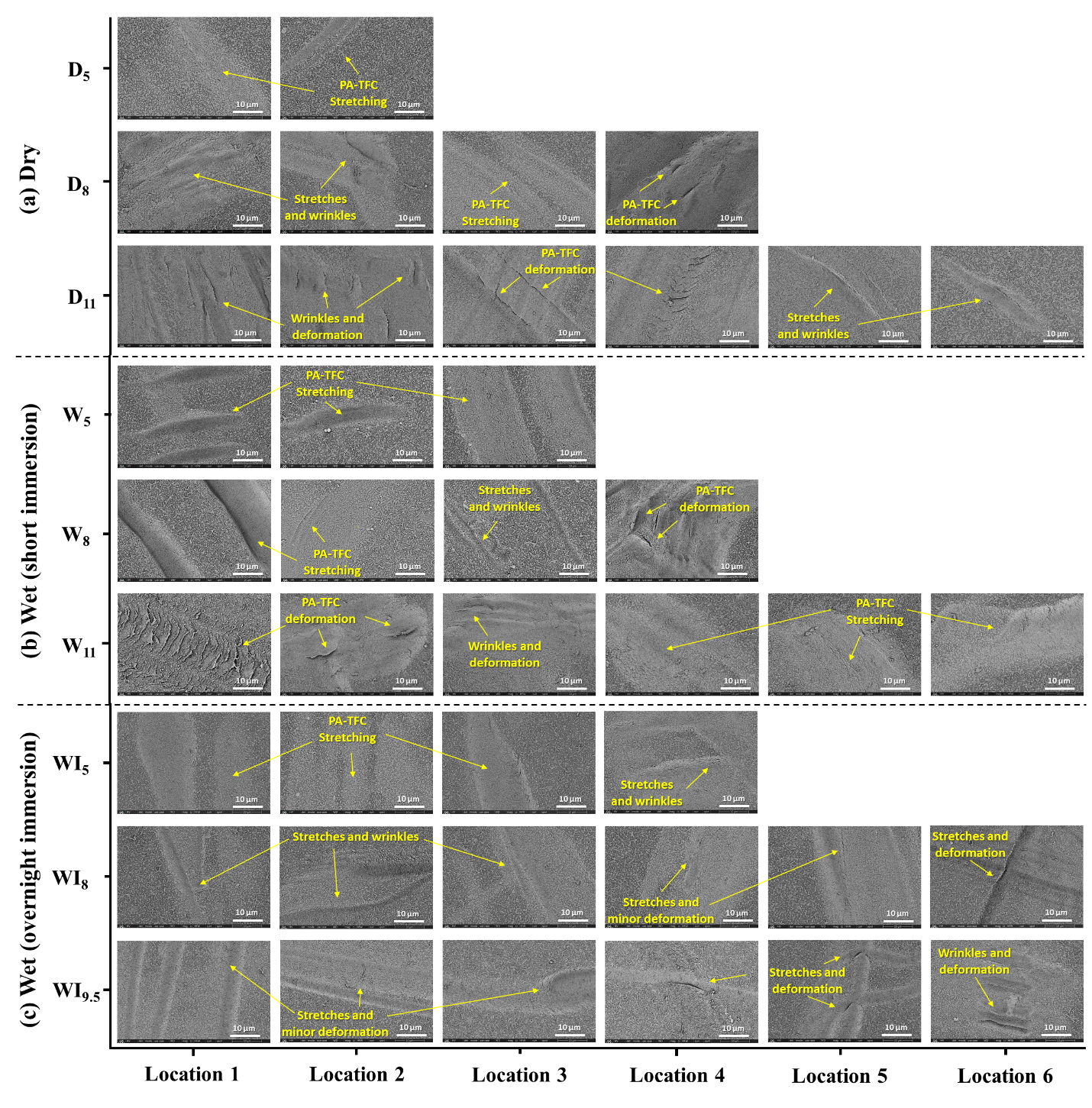


Figure S 1: SEM images showing the types of damages observed in the tested samples (selective layer surface, 8,000 X magnification, scale bar is 10 µm).

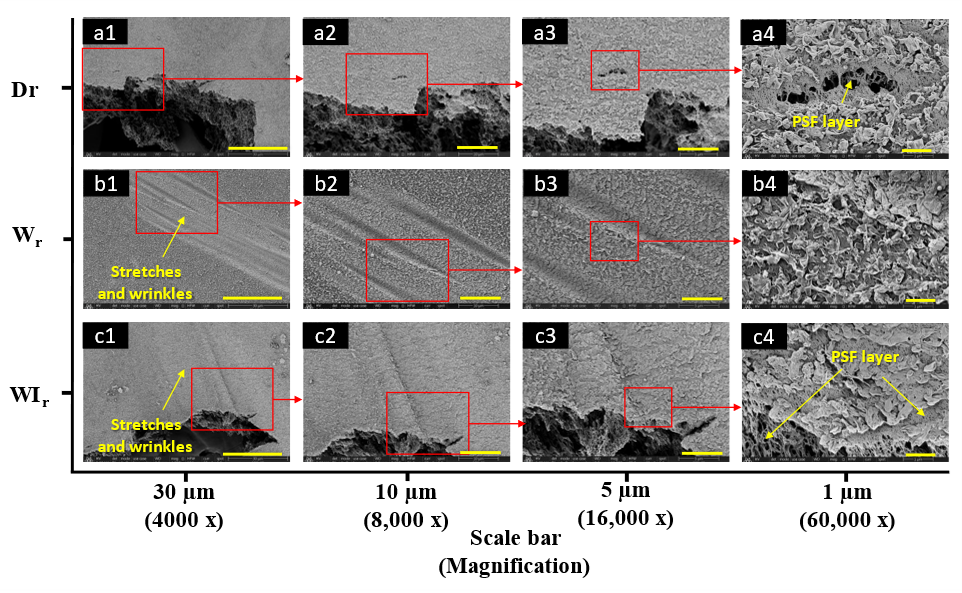


Figure S 2: SEM images of the membranes tested up to complete rupture in dry and wet conditions at different magnifications. The locations presented in the pictures close to the rupture region.

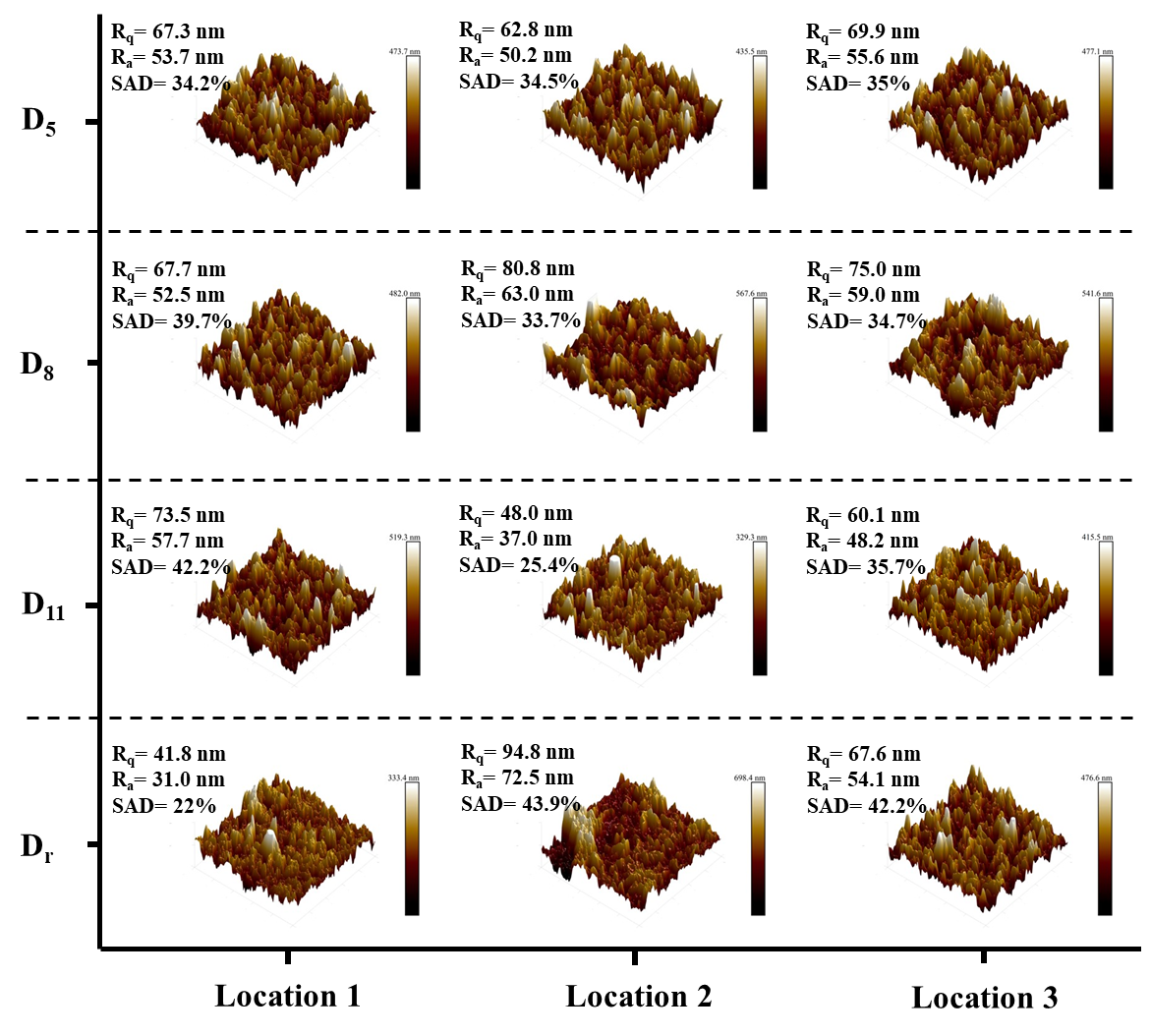


Figure S 3: 3D AFM images of the membranes tested under dry conditions at different locations.

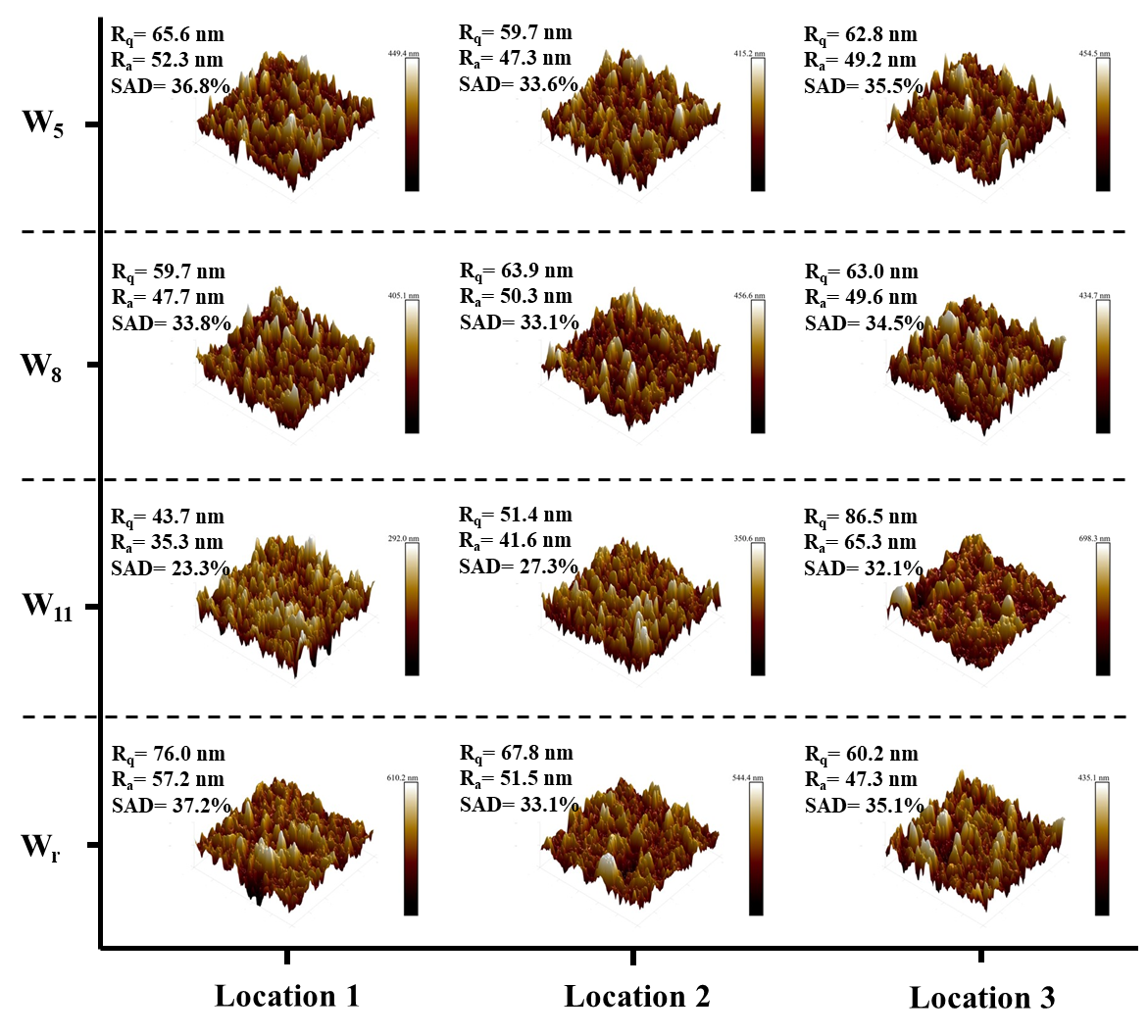


Figure S 4: 3D AFM images of the membranes tested under wet conditions (short-time immersion) at different locations.

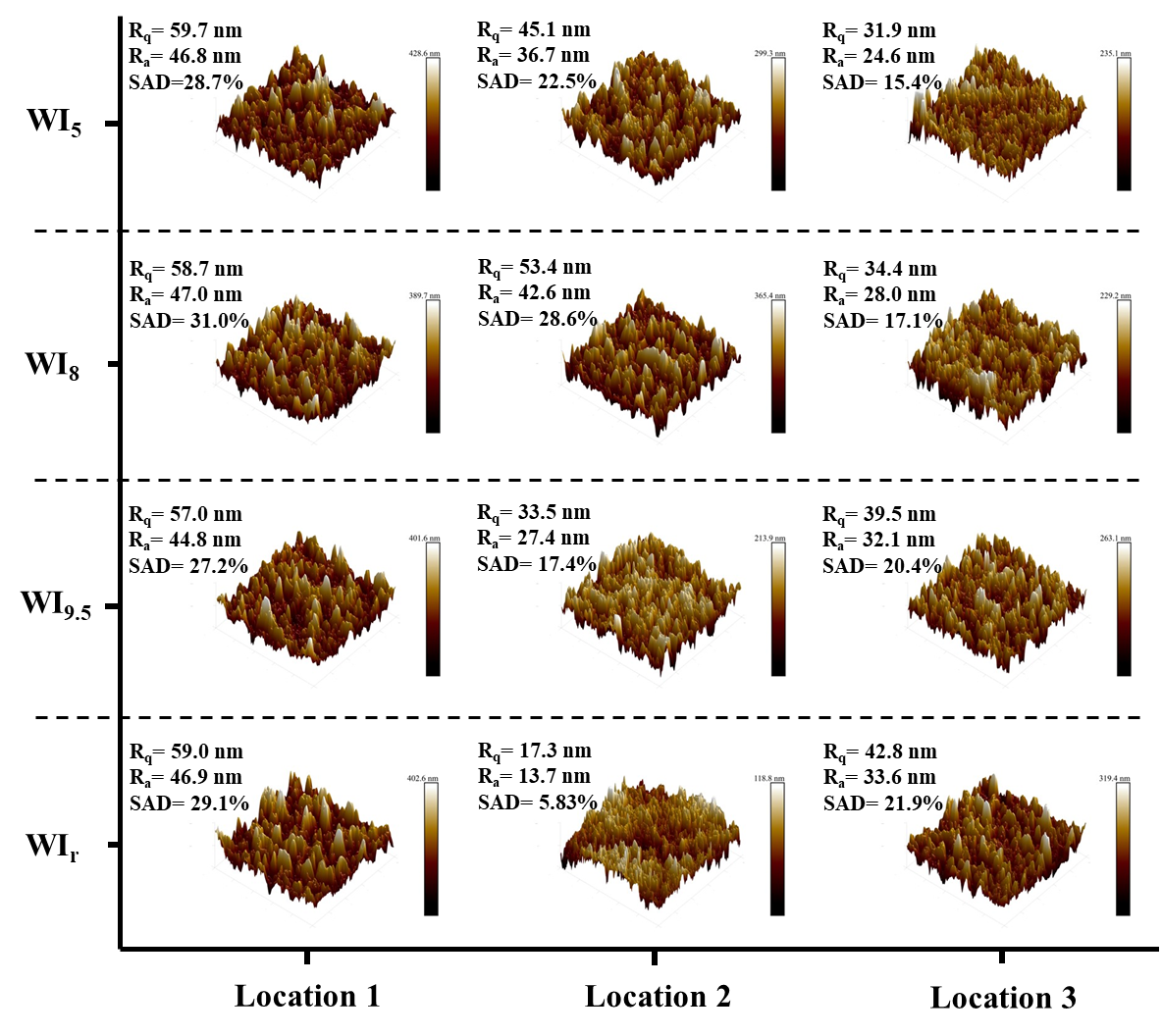


Figure S 5: 3D AFM images of the membranes tested under wet conditions (overnight immersion) at different locations.