

# Making the glass covalently stick to polyacrylamide gel

## Method :

1. Wash glass with ethanol 70%
2. Activate it with air plasma 30 seconds or deep UV light (180 nm) 5 minutes
3. Cover the glass with 100  $\mu$ L of pure 3-aminopropyltrimethoxysilane
4. Incubate 5min @ RT
5. Add water on the silane
6. Leave it for 5-10 min
7. Rinse well with water (2x10 minutes in bath of water under agitation)
8. Add glutaraldéhyde (0,5% in PBS) ; incubate 30 minutes
9. Rinse well with water ; air dry
10. You can then polymerize polyacrylamide gel on it or add proteins that will bind covalently

*This protocol is adapted from Yu-Li Wang, P. R. (1998). "Preparation of a Flexible, Porous Polyacrylamide Substrate for Mechanical Studies of Cultured Cells." Methods in enzymology **298**.*