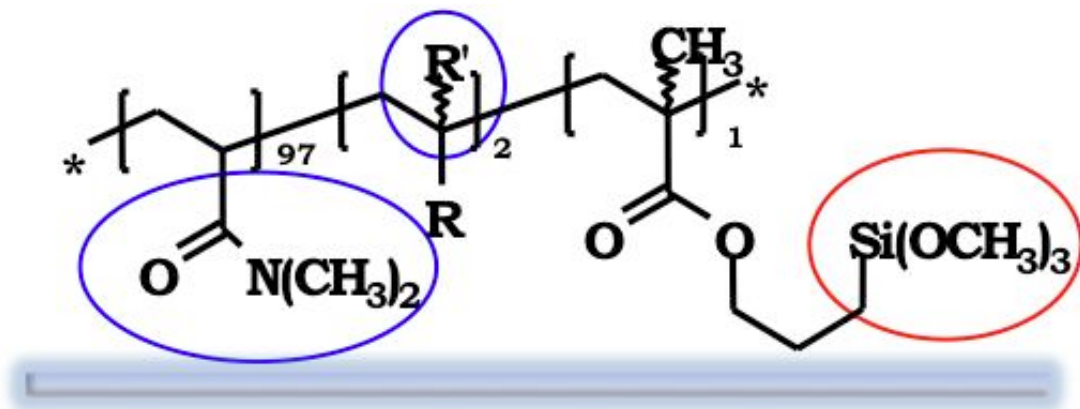


### Surface chemistry

CNR has developed a wide range of functional polymers that allow to coat slides of different materials for DNA and protein microarray. The coating procedure is fast, simple, and can be performed in any laboratory. The use of polymeric materials for modifying/functionalizing substrates is one of the most effective ways for tailoring surface characteristics

Characteristics of the surface coating:

- the surface exhibits functional groups for the easy immobilization of molecules of interest;
- the binding between the biomolecule and the solid surface is strong enough to retain the molecule on the surface during the entire biosensing experiment;
- the surface is inherently inert and resists non-specific adsorption;
- the coupling chemistry allows the control of biomolecule orientation;
- the local chemical environment allows the immobilized molecules to retain the native conformation and its functionality.



**R' Chemically reactive monomers**