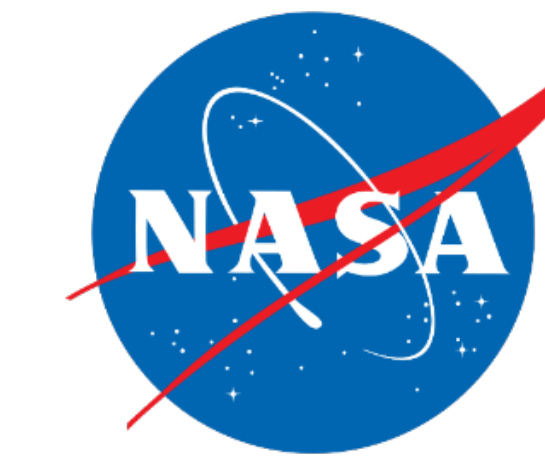
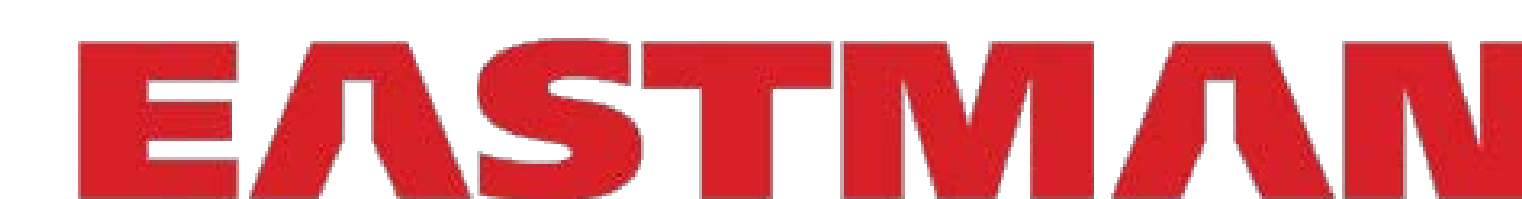


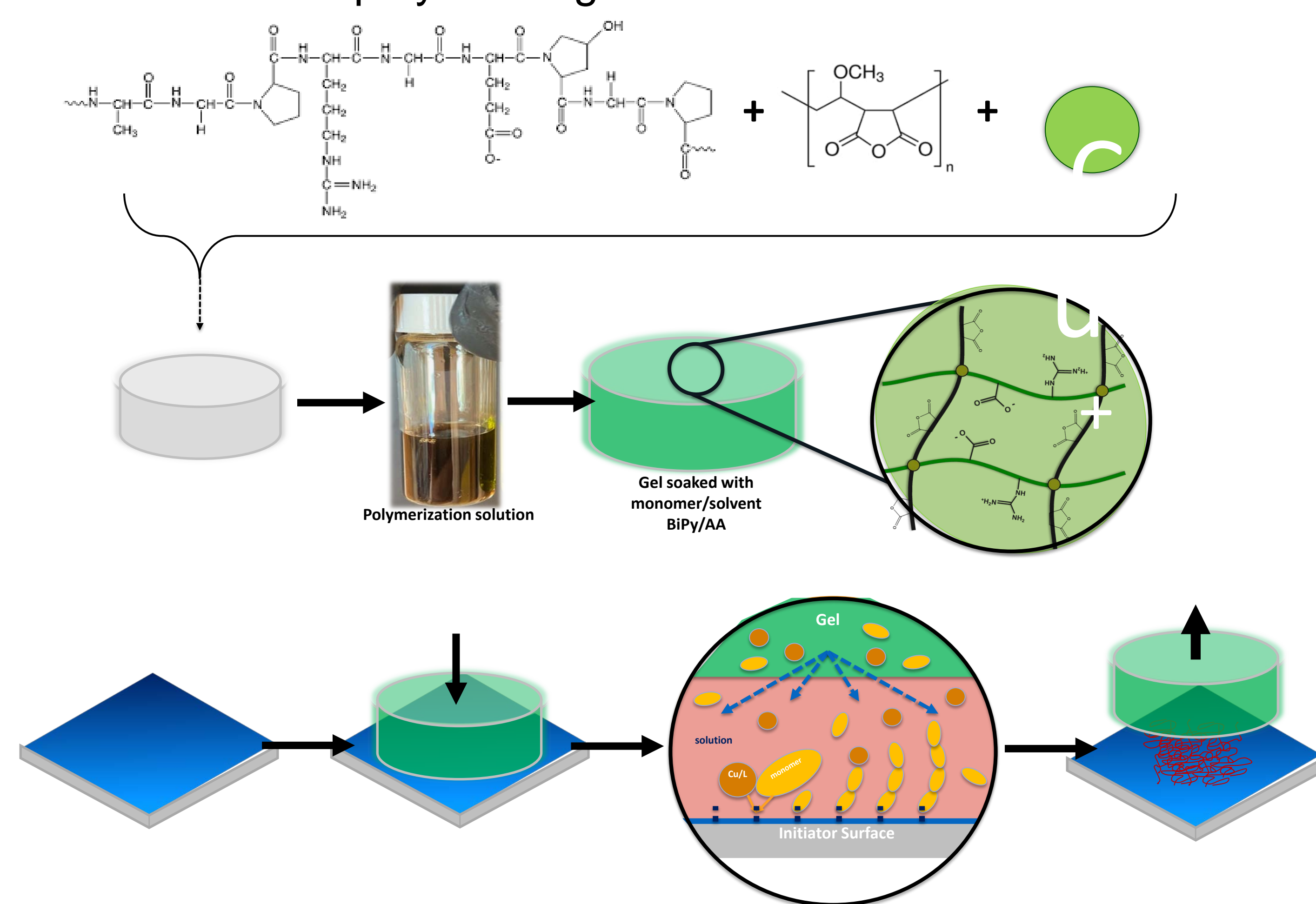


From fundamental insights on the single polymer chain level to the interfacial properties of bulk polymers. The Genzer group studies the fundamentals of polymer science and applies them to advance the frontiers of material properties.



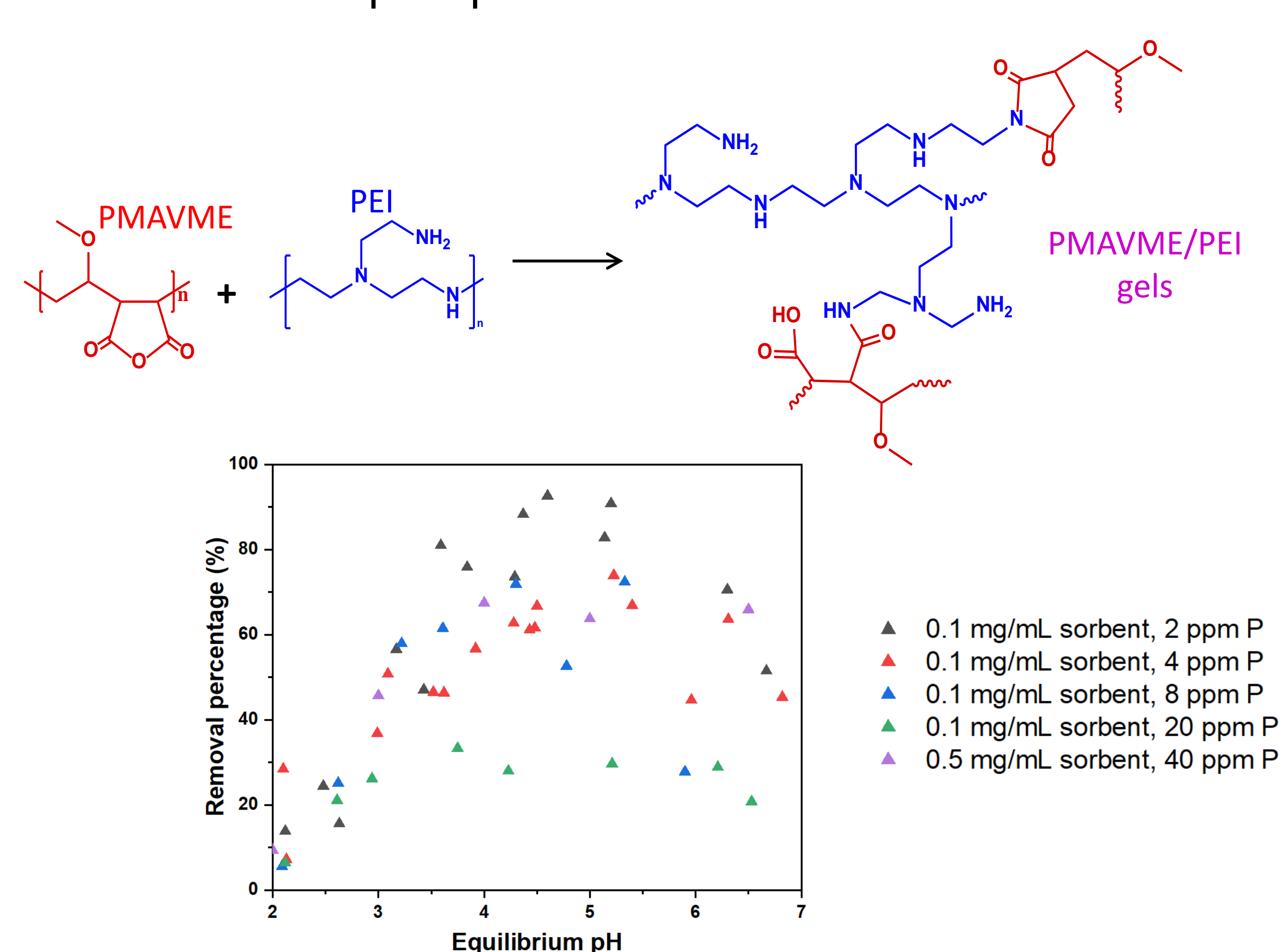
Polymer Gel Microreactors

Using gelatin networks as micro-reactors for synthesis of defined polymeric grafts on flat surfaces



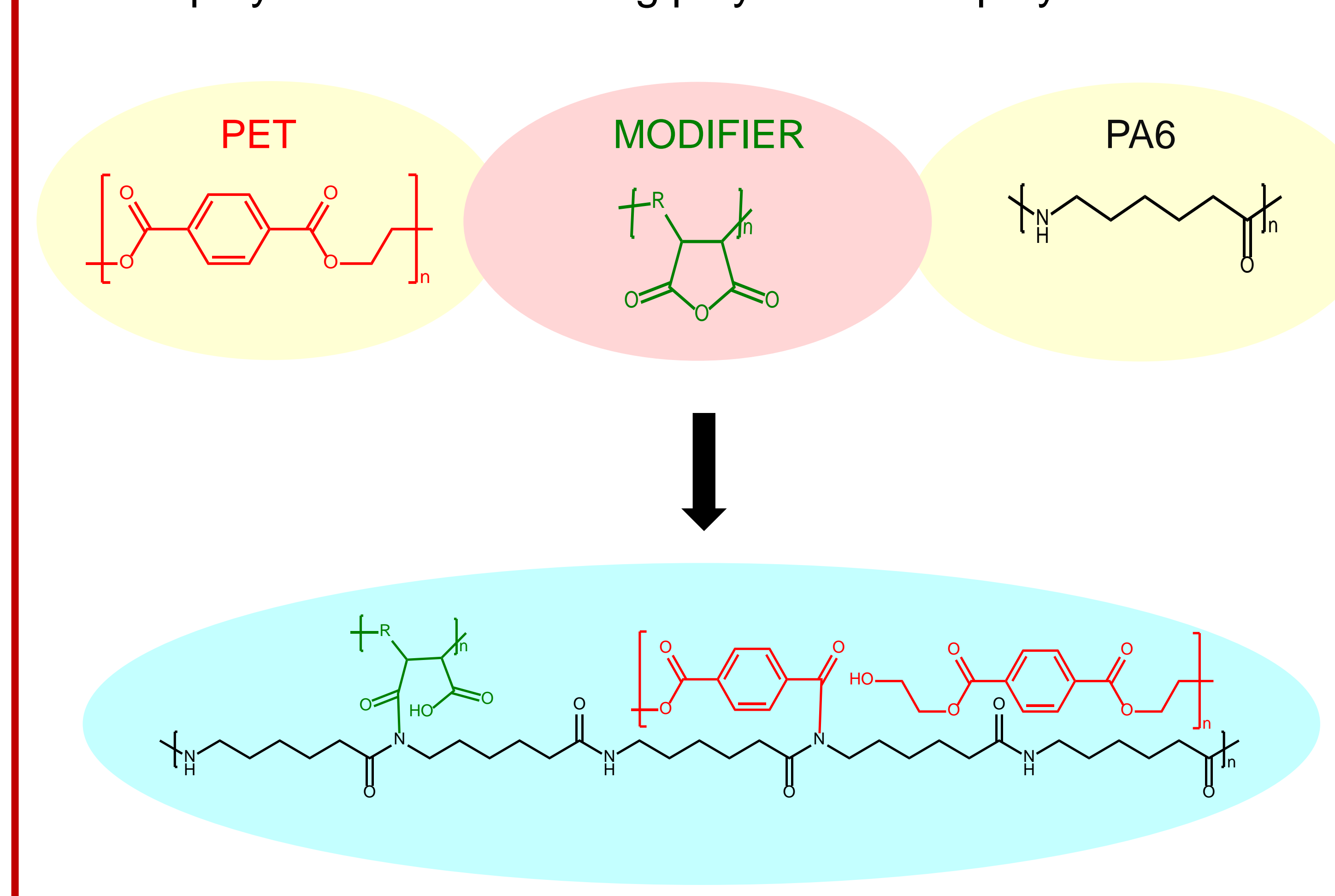
Functional Polymer Gels

Developing polymer gels that degrade organophosphates and remove phosphates from contaminated waters



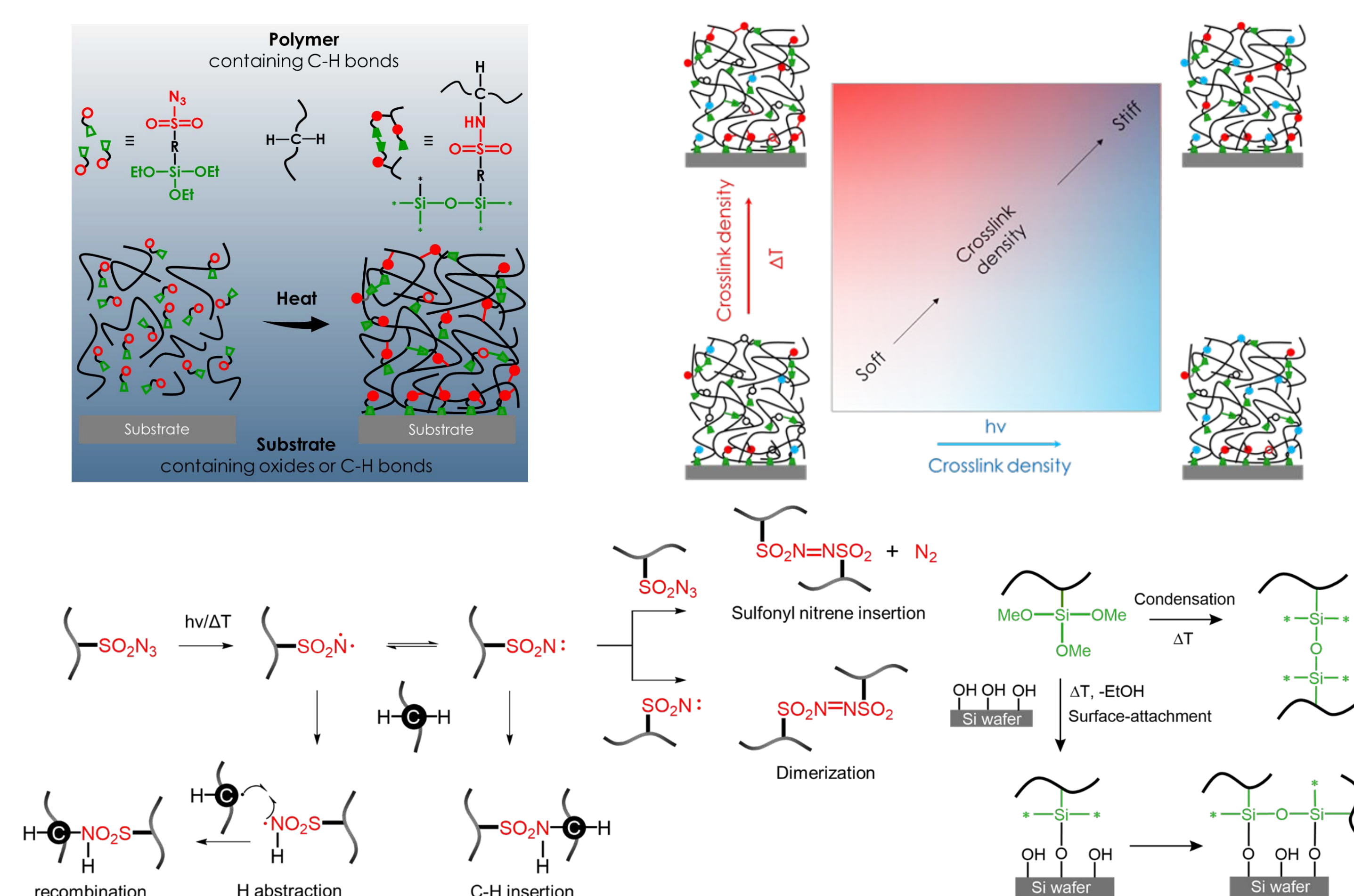
Polymer Adhesion

Controlling adhesion between polymer layers and bicomponent polymer fibers involving polyesters and polyamides



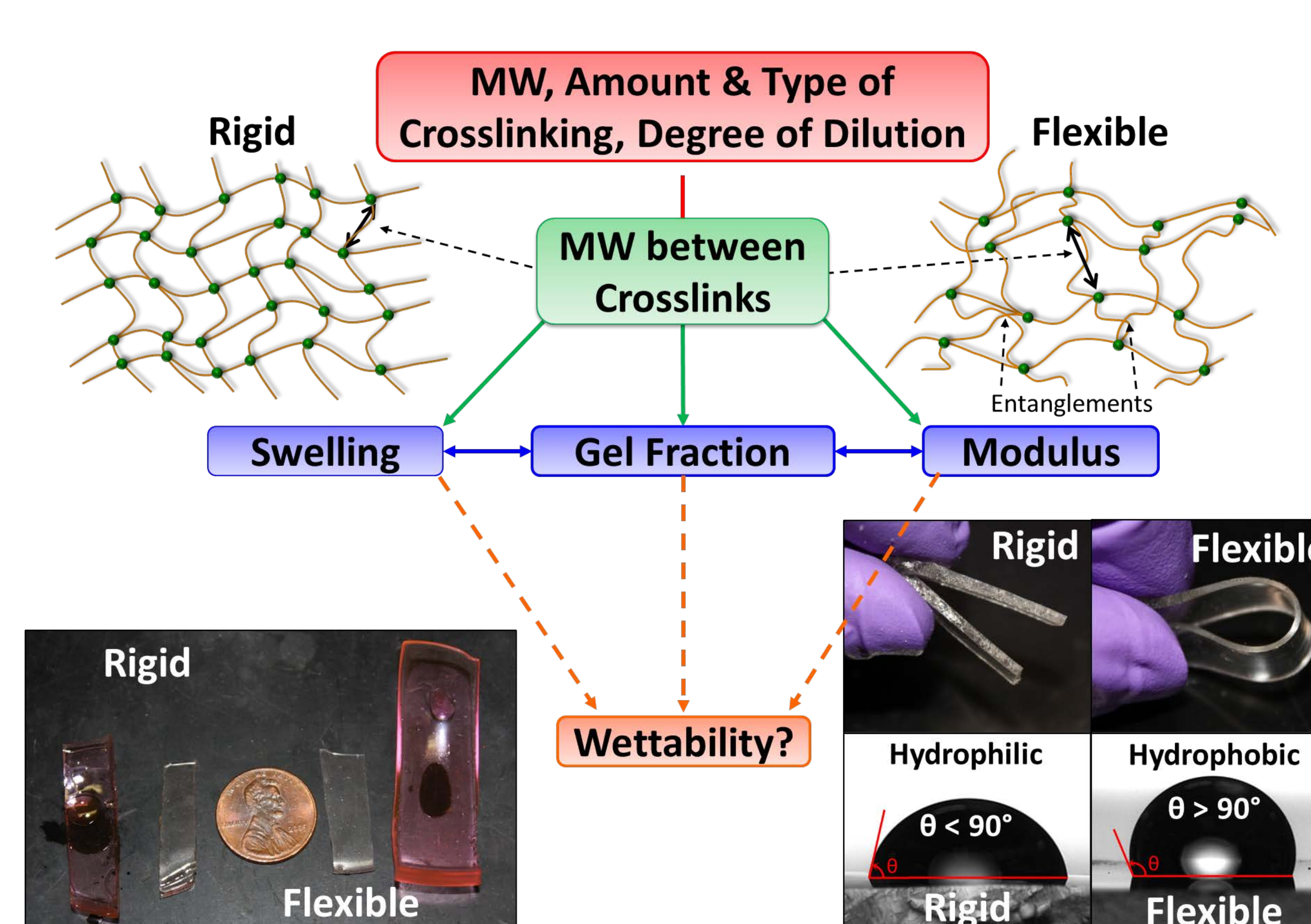
Surface-Bound Gradients

Developing methods to mimic naturally occurring tendons that can be used in tissue engineering or artificial implants



Polymer Networks

Investigating properties of polymer networks allows for understanding how network architecture influences properties



Polyelectrolyte Polymer Brushes

Swelling of polyelectrolyte brushes in aqueous buffer solutions can lead to degrafting due to elastic forces

