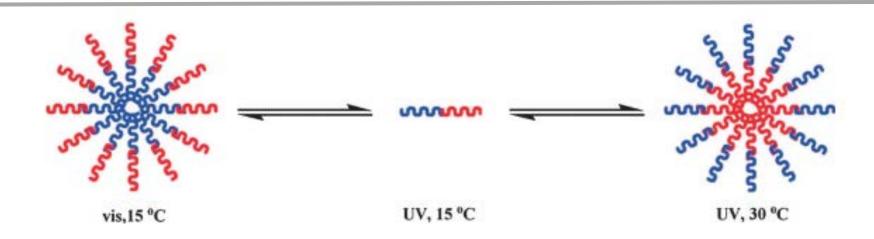
Double stimuli responsive polymers



PSPMA-PDEGMMA

Micelles formed by changing the temperature (from 15°C to 30°C) of the solution and by photo irradiation. These micelles were used for encapsulation and controlled release and re-encapsulation of the model drug.

3. Thermo and redox-responsive polymers

The systems consist of PNIPAM macromonomers, which were linked via disulfide units, can be considered as a system with two stimuli having a causal impact.

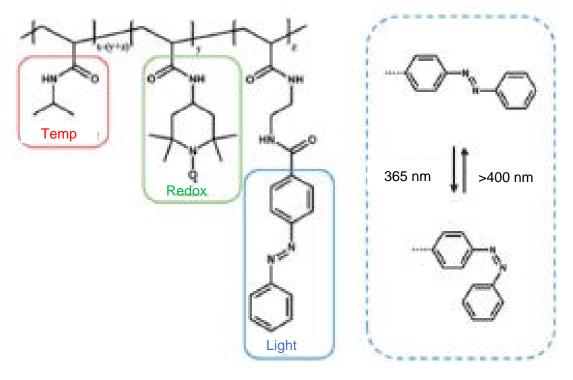
Multi-stimuli responsive polymers

- 1. Light, pH and temperature responsive polymers
- 2. Light, redox and temperature-responsive polymers
- 3. Environmental, pH and temperature-responsive polymers
- 1. Light, pH and temperature responsive polymers

PDMAEMA polymer end-functionalized with azobenzene, which can be stimulated by light, temperature and

Multi-stimuli responsive polymers

2. Light, redox and temperature-responsive polymers



Triple-responsive polymer, equipped with the redox-sensitive moiety TEMPO, the light-responsive azobenzene and NIPAM, which is sensitive towards temperature.

CH₃

Ref: Schattling et.al Polym. Chem., 2014, 5, 25-36

Multi-stimuli responsive polymers

3. Environmental, pH and temperature-responsive polymers

Stimuli responsive polymer system with causal interaction.