gruppo prof. Masiero

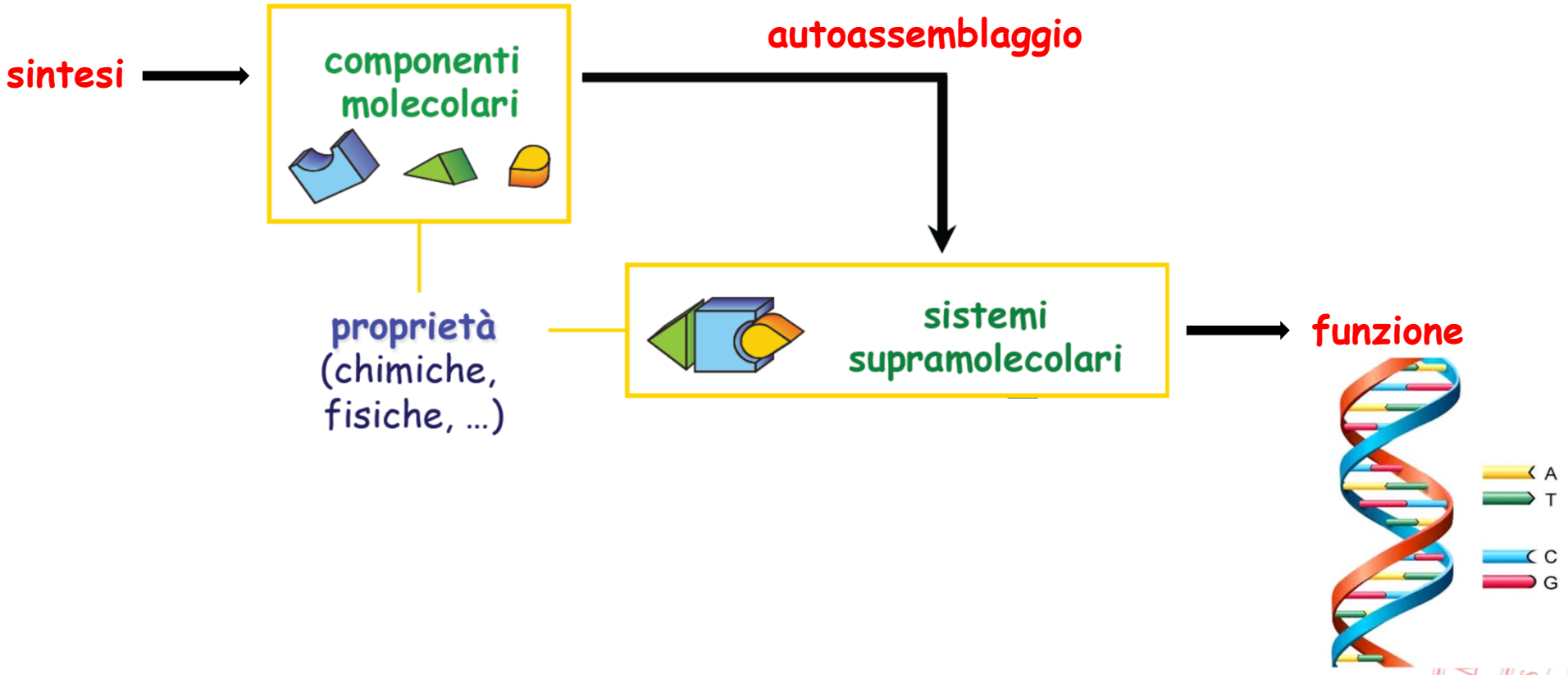
chimica organica

Dipartimento di Chimica “G. Ciamician”
v. S. Giacomo, 11

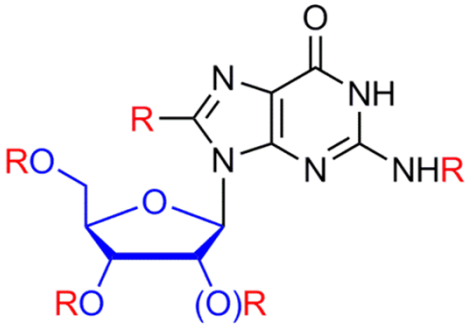
stefano.masiero@unibo.it

Chimica supramolecolare:

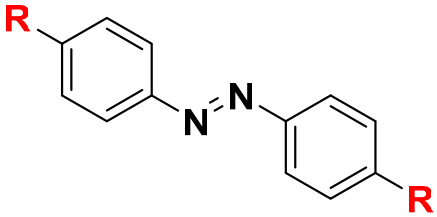
- *la chimica oltre le molecole*
- autoorganizzazione attraverso interazioni intermolecolari non covalenti



COMPONENTI MOLECOLARI: sintesi e caratterizzazione

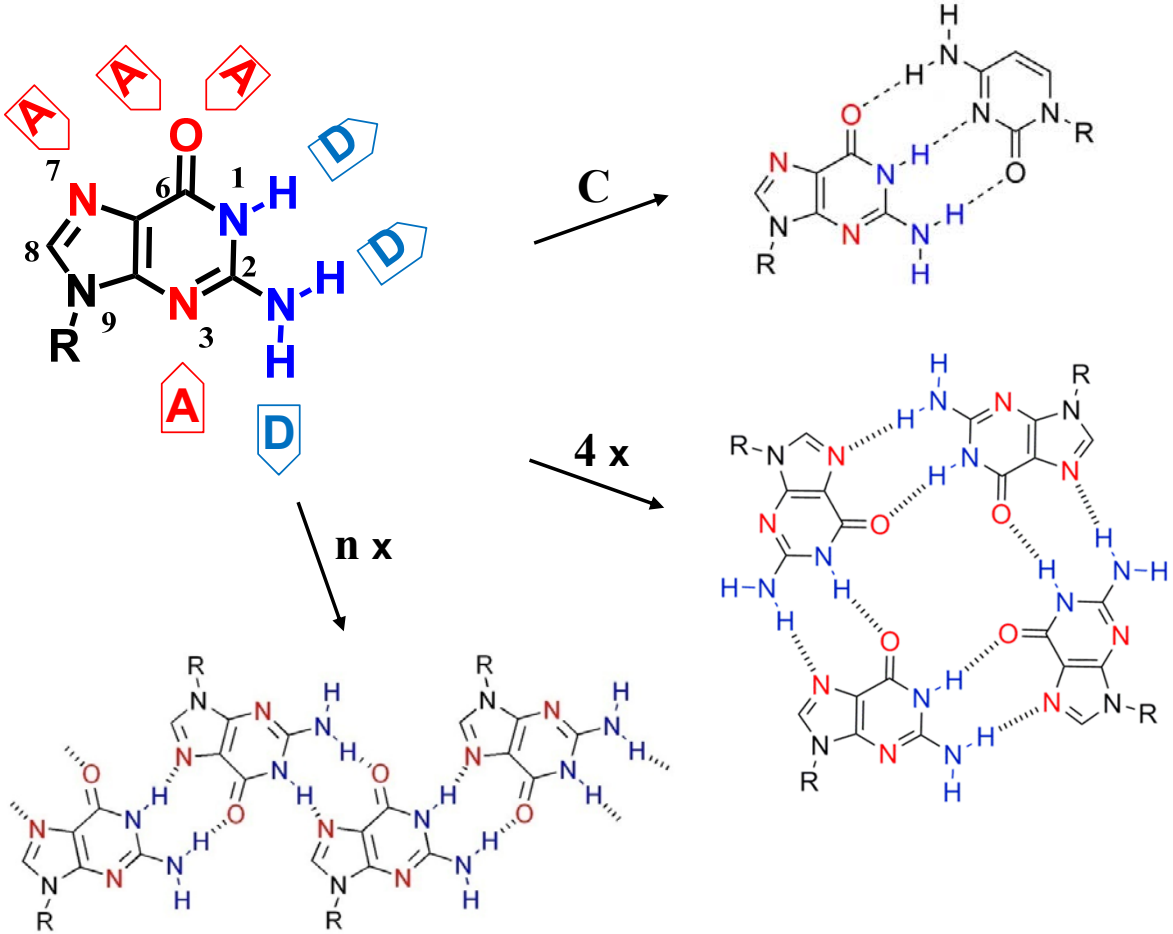


Lipo-Gs

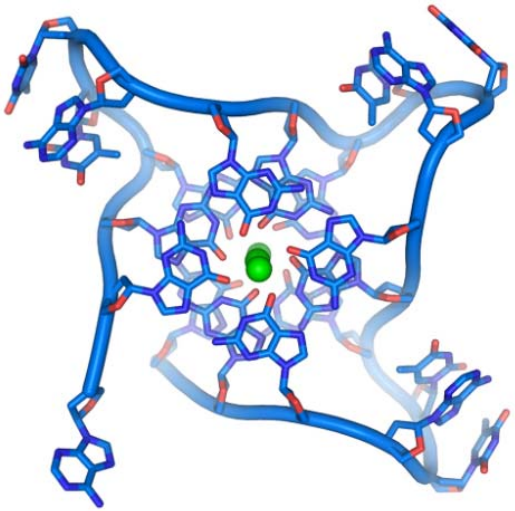


Azobenzeni e poliazobenzeni

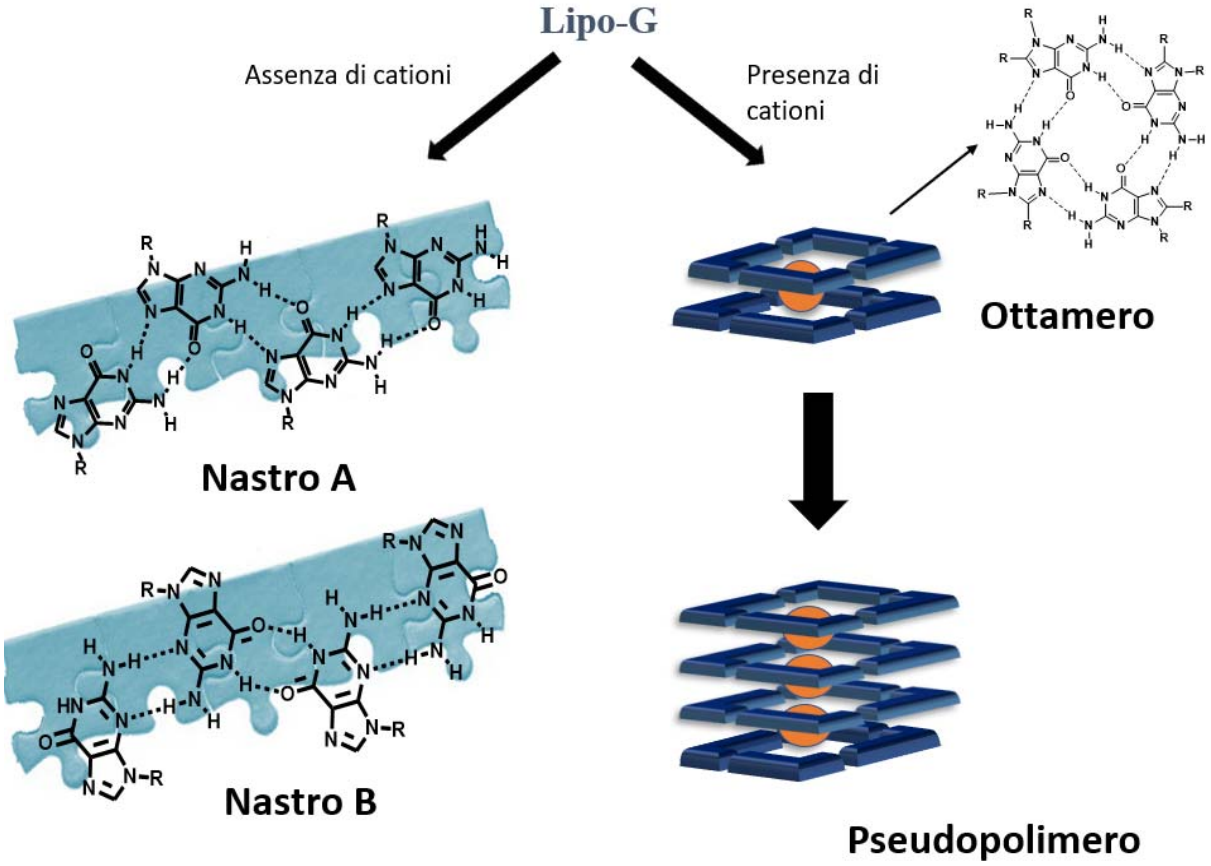
AUTOASSEMBLAGGIO DELLA GUANOSINA



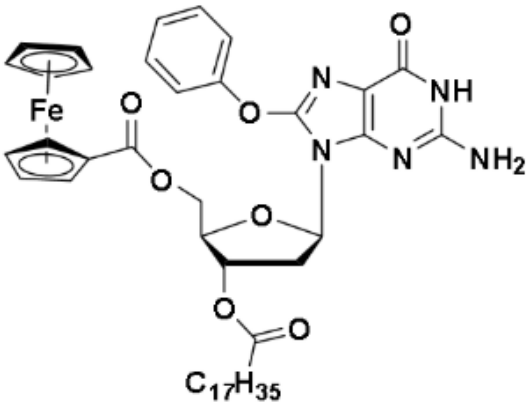
SISTEMI SUPRAMOLECOLARI (Lipo-guanosine)

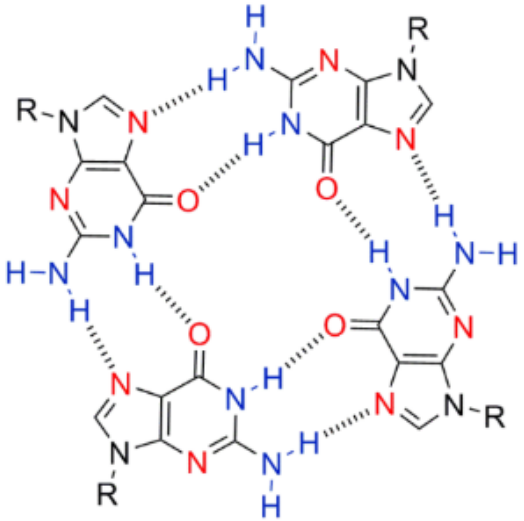


Dna quadrupla elica



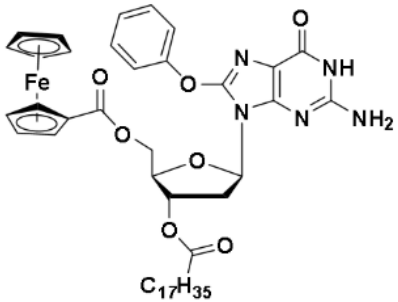
SISTEMI SUPRAMOLECOLARI (guanosine funzionalizzate)



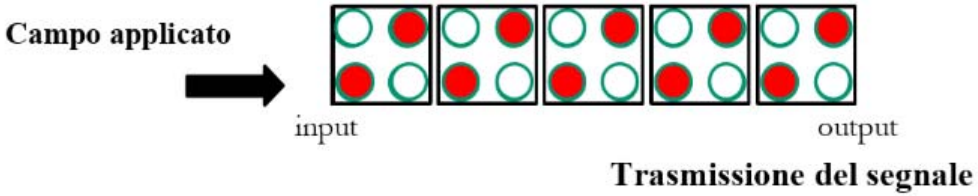


ASPETTI PRATICI

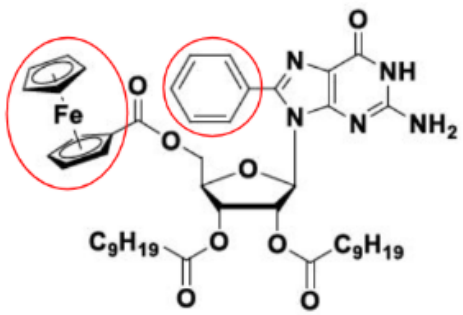
- Ricerca

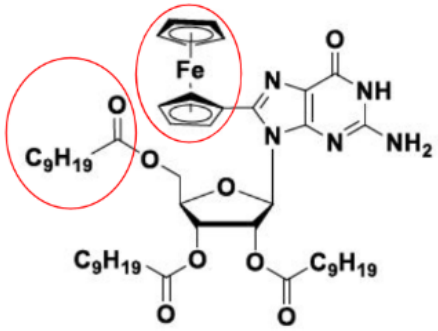


- Applicazione



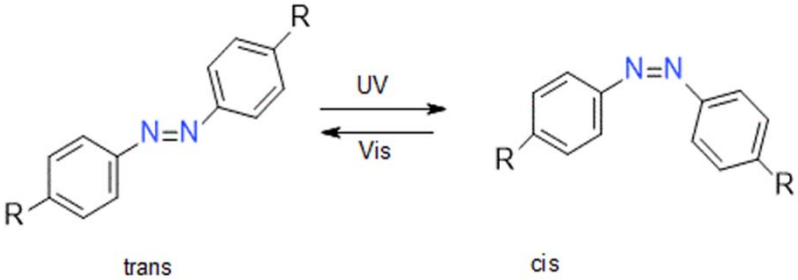
- Ricerca

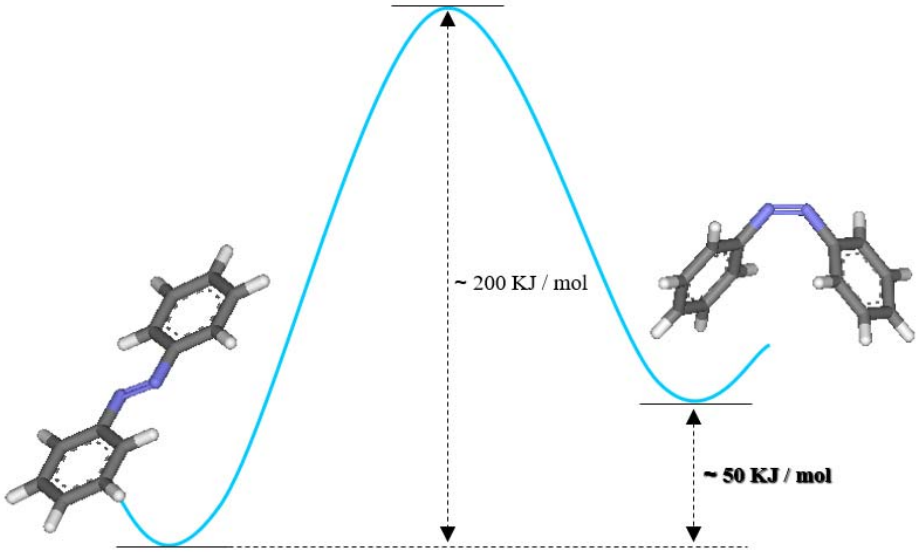




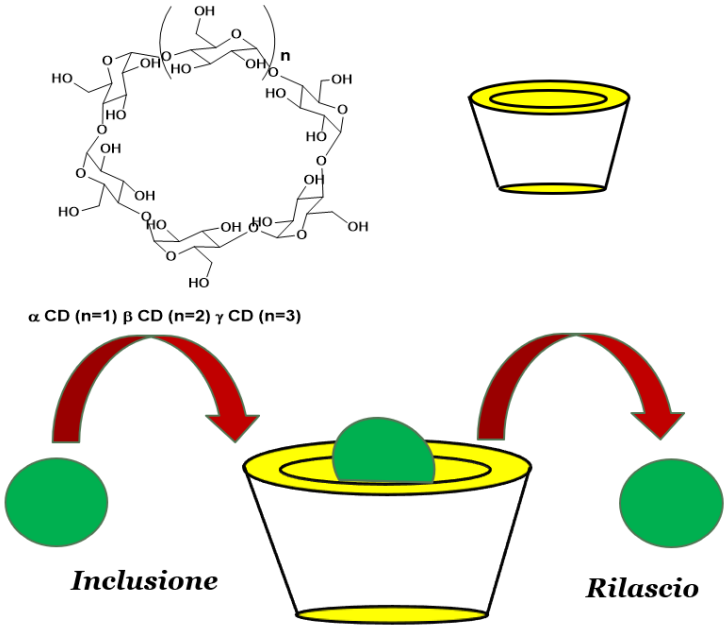
FOTOISOMERIZZAZIONE DELL'AZOBENZENE

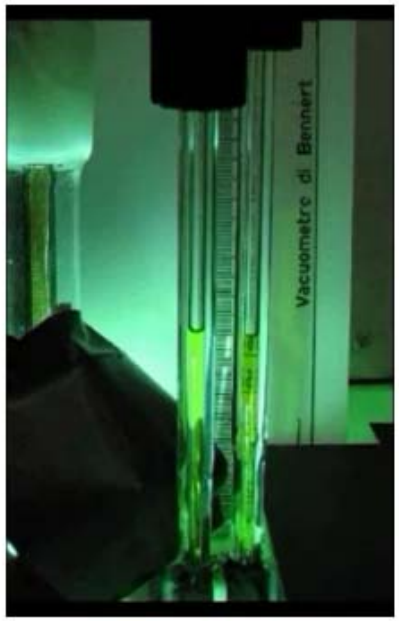
(conversione dell'energia)



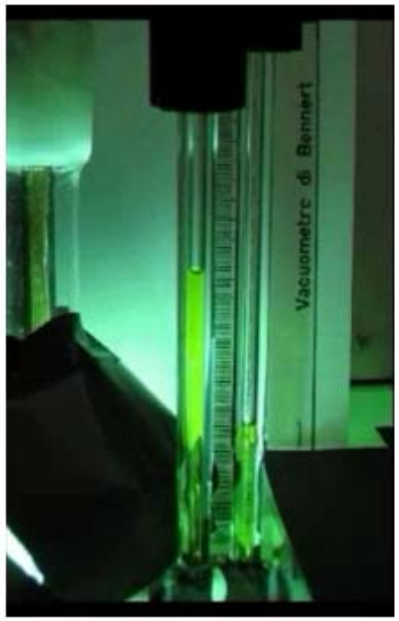


CELLA OSMOTICA

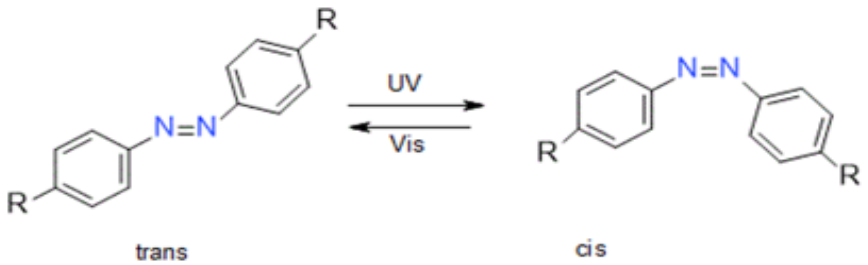


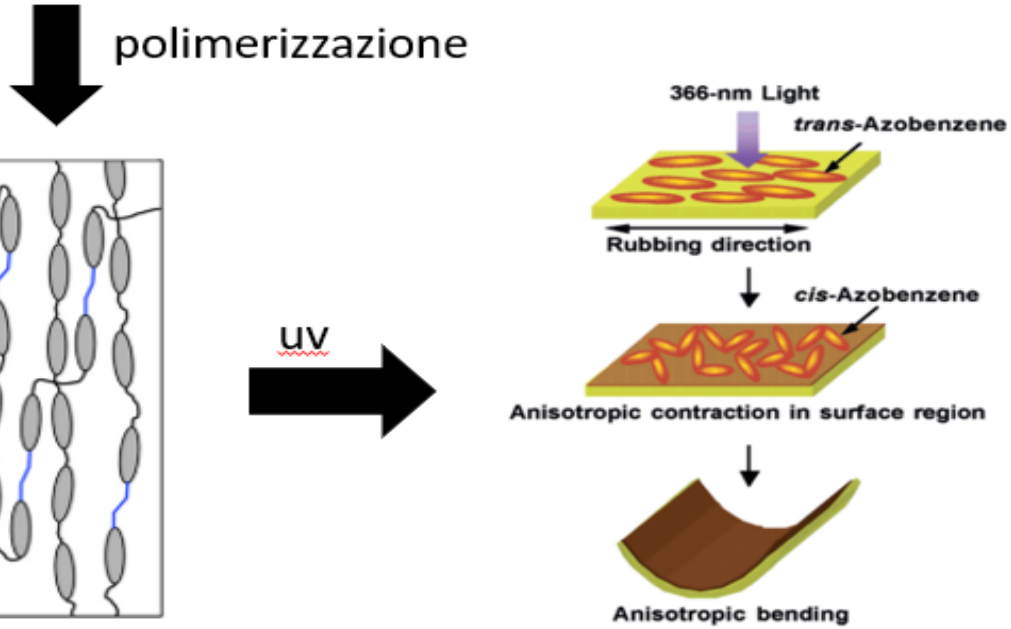


hv

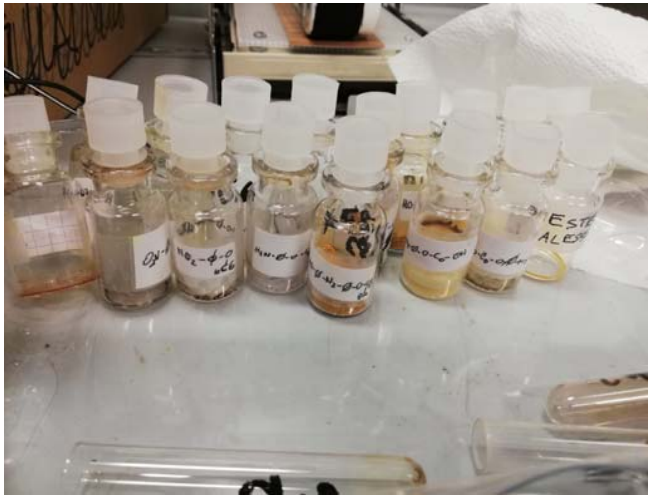


AZO-LCE


R
N=N
R
UV
Vis
N=N
R
R
trans
cis


polimerizzazione
uv
366-nm Light
trans-Azobenzene
Rubbing direction
cis-Azobenzene
Anisotropic contraction in surface region
Anisotropic bending

SVILUPPO DELLA TESI: sintesi



SVILUPPO DELLA TESI: caratterizzazione