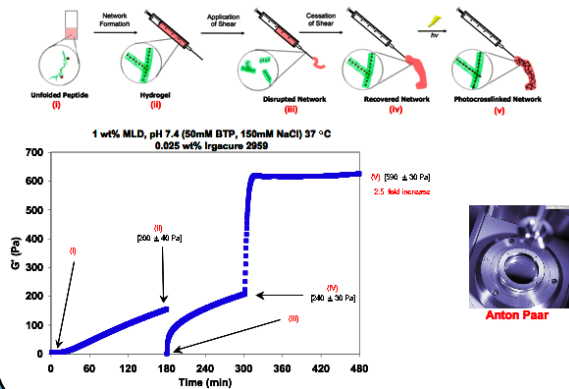


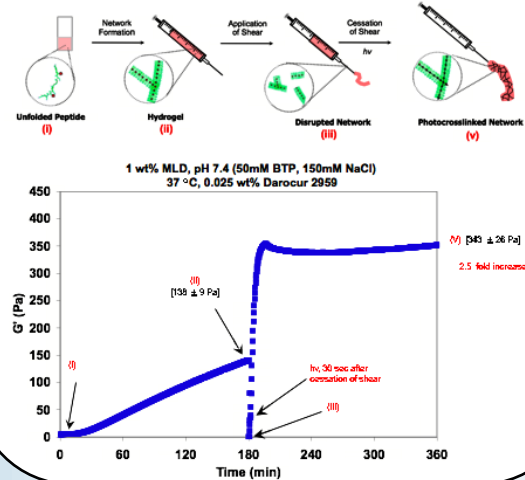
MODULATING HYDROGEL RIGIDITY VIA PHOTOPOLYMERIZATION OF SELF-ASSEMBLED B-HAIRPIN PEPTIDE HYDROGELS

Continued

Photopolymerization of Self-Healing Hydrogels



Photopolymerization of Self-Healing Hydrogels



Conclusions

Design of a photopolymerizable β -hairpin responsive at pH 7.4

Photopolymerization monitored via CD

Circular Dichroism: No distortion in β -sheet structure upon photopolymerization

1 wt% MLD hydrogels exhibit self-healing property

On Photopolymerization of 1wt% MLD hydrogels
Rheology: 2-3 fold increase in mechanical rigidity

ACKNOWLEDGEMENTS

Dr. Joel Schneider & Schneider Group

Dr. Darrin Pochan & Nikhil Sharma

This work is supported by the Army Research Laboratory through the Composite Materials Research program.