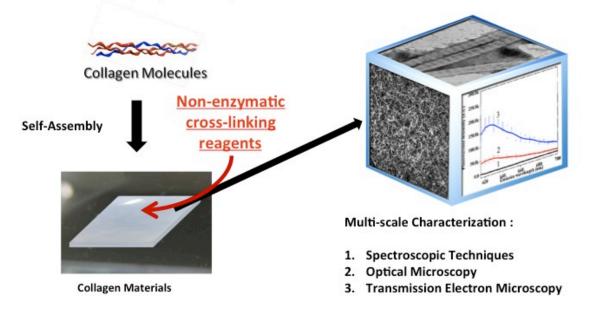
Non-enzymatic cross-linking of collagen materials

A process where the reaction between the collagen molecule and the cross linking reagent will make a stiffer and stronger resulting material. We are currently experimenting with both zero and nonzero cross-linkers.



Non-enymatic Cross-linking Reagent Genipin

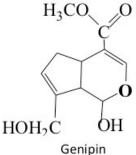
- It is the active compound found in the Gardenia fruit extract, which is used in traditional Chinese medicine to relieve the symptoms of type 2 diabetes
- It has low acute toxicity
- · It's an excellent cross-linking reagents for proteins



Gardenia jasminoides
– intense fragrance

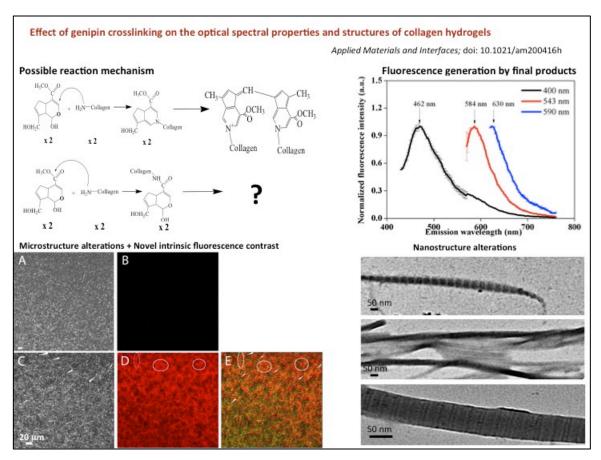


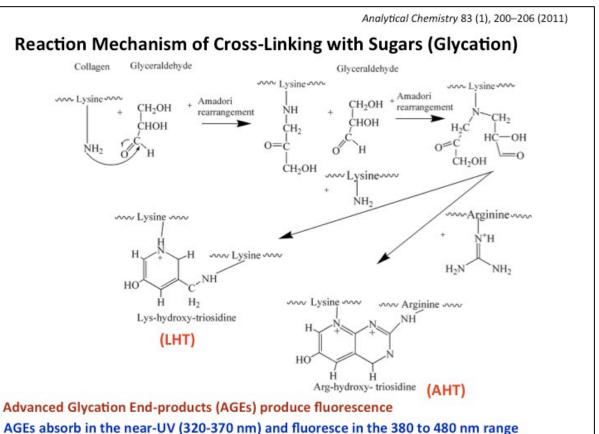
Fruit



8

http://www.printsofspan.com/Index_Glossory_Kopsi_thru_Eurums.htm http://en.wikipedia.org/wiki/Gardenia





Tessier, F.J.; Monnier, V.M.; Sayre, L.M.; Kornfield, J.A. Triosidines: novel maillard reaction products and cross-links from the reaction of triose sugars with lysine and arginine residues. Biochem. J. 369, 705-719, 2003