



College of Engineering  
McArthur Annex MEB 149 and MEA 168

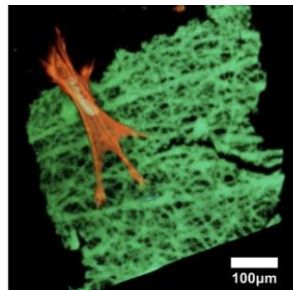
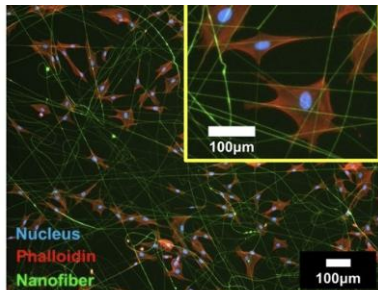
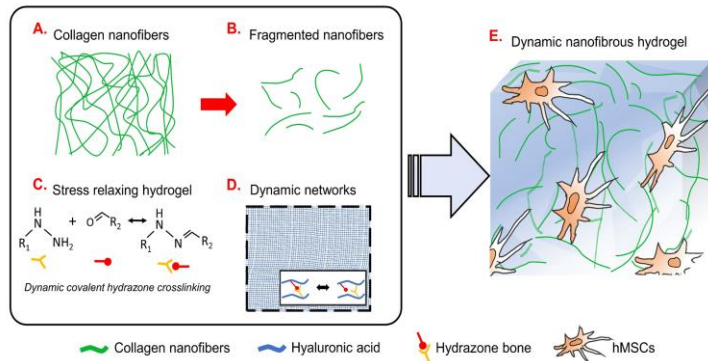
## Castilla-Casadiegos Lab

**David A. Castilla-Casadiegos, Ph.D.**

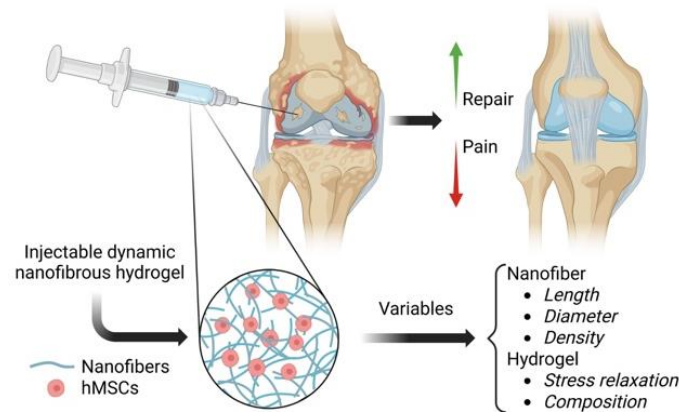
At the interface of polymer science and biology, the broader goal of the lab is to focus on developing advanced materials surfaces or platforms for different approaches, including stem cell manufacturing, drug delivery, and tissue engineering.



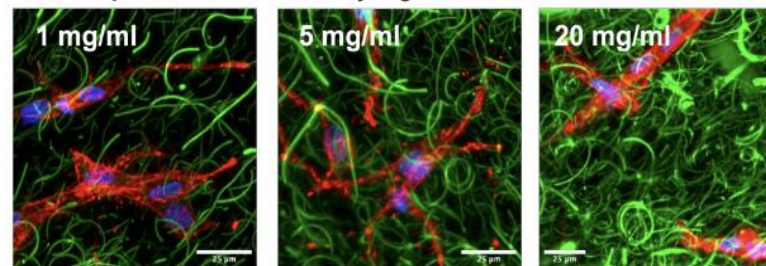
### Regulating the Quality and Potency of Stem Cells for Therapeutic Purposes



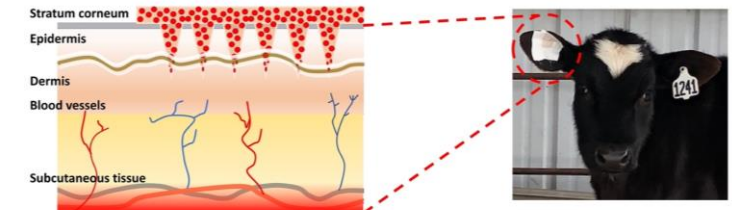
### Regulating In-vivo Cartilage Repair Quality in Osteoarthritis



Cell encapsulation in nanofibrous hydrogels at different nanofiber concentrations



### Polymeric Microneedles Patches for Drug Delivery and Tattoo



After in-vivo insertion - 7 days

