

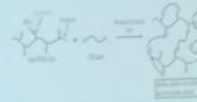


Hydrogel IPN Kits

- Ready-to-use hydrogel kits
 - Encapsulate drugs and cells for localized delivery
 - Offers spatial, temporal, and functional control in presenting bioactives
 - Properties tunable with composition

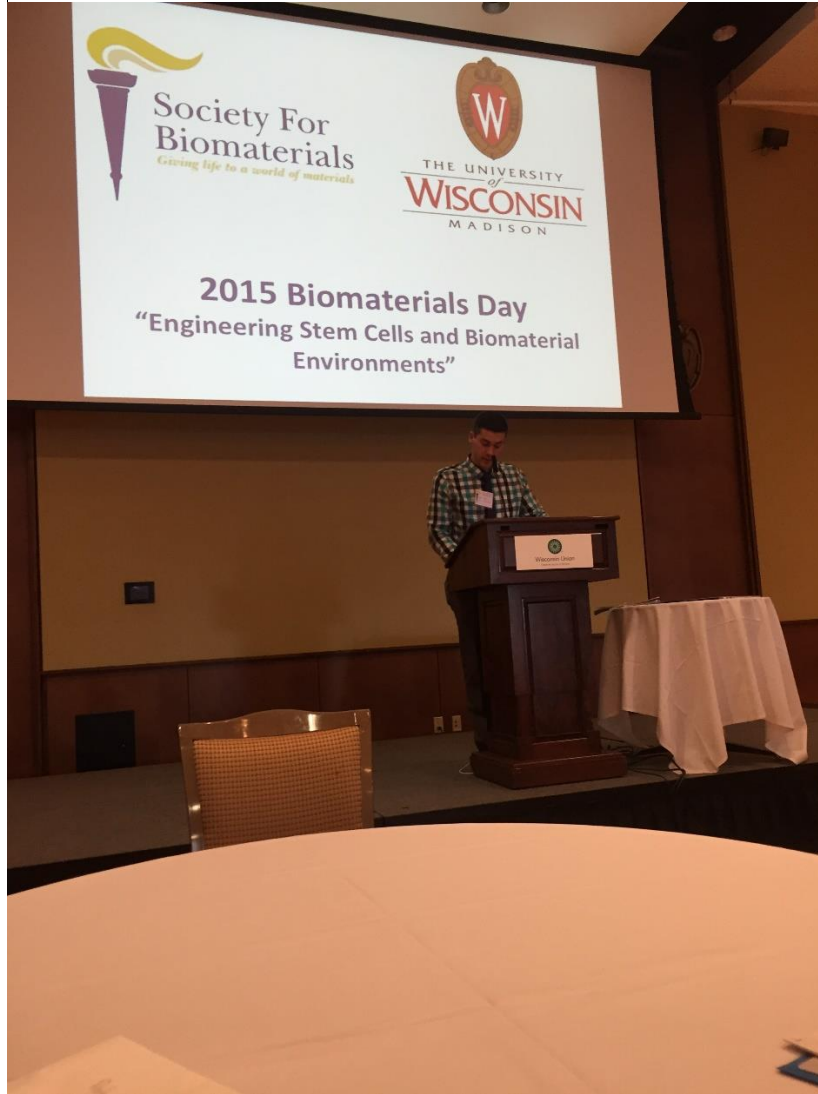


- Kit description
 - sPN hydrogel composed of PEG and modified gelatin
 - Photo- or chemically-crosslinkable in situ

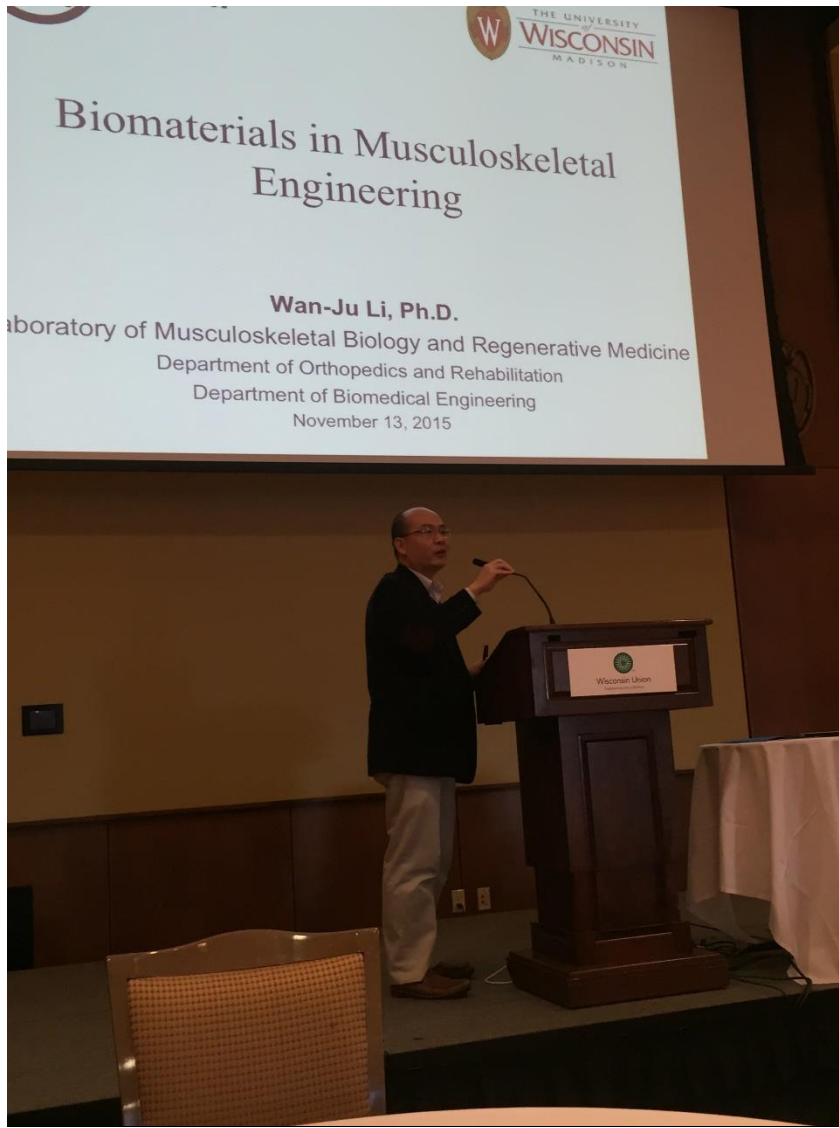


SIDAMA-ALDRICH









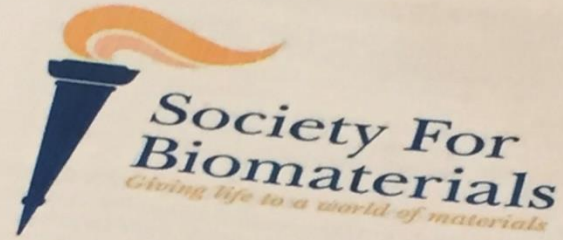




Biomaterials for Orthopedics

- First generation biomaterials – to achieve a suitable combination of **physical properties** to match those of the replaced tissue with a minimal toxic response of the host (Hench 1980).
- “inert”; reduce the immune response to a minimum.
- Metallic materials: Ti-based or Co-Cr-based alloys
- Ceramic materials: Al_2O_3
- Polymeric materials: PE, PP, or PMMA





Biomaterials Day Conference: Engineering Stem Cells and Biomaterial Environments

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• **PROFESSIONAL RECOGNITION** - Members of SFB are recognized among fellow colleagues in the profession and held in high regard. Membership provides networking opportunities.

*Giving life to a
World of Materials*