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### 2019

#### **Self-Assembling Hydrogels Based on a Complementary Host-Guest Peptide Amphiphile Pair.**

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#### **Protein disorder-order interplay to guide the growth of hierarchical mineralized structures.**

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#### **Hierarchical Biomineralization: from Nature's Designs to Synthetic Materials for Regenerative Medicine and Dentistry.**

Elsharkawy S and Mata A. *Adv Healthc Mater* vol. 7, (18).

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#### **Multicomponent self-assembly as a tool to harness new properties from peptides and proteins in materials design.**

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#### **Hydrodynamically Guided Hierarchical Self-Assembly of Peptide-Protein Bioinks.**

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**Elastin-Like Protein, with Statherin Derived Peptide, Controls Fluorapatite Formation and Morphology.**

Shuturminska K, Tarakina NV, Azevedo HS, Bushby AJ, Mata A, Anderson P and Al-Jawad M. *Front Physiol* vol. 8, 368-368.

**New Bioengineering Breakthroughs and Enabling Tools in Regenerative Medicine.**

Mata A, Azevedo HS, Botto L, Gavara N and Su L. *Current Stem Cell Reports* vol. 3, (2) 83-97.

**Cross-linking of a biopolymer-peptide co-assembling system.**

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**Bone and cartilage differentiation of a single stem cell population driven by material interface.**

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**3D electrophoresis-assisted lithography (3DEAL) for patterning hydrogel environments.**

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