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Title: A Poly (Glycerol Sebacate)-coated Mesoporous Bioactive Glass Scaffold with Adjustable Mechanical Strength, Degradation Rate, Controlled-release and Cell Behavior for Bone Tissue Engineering

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1 **Highlights:**

- 2 ● A PGS-coated MBG hierarchical scaffold for bone repair was designed and prepared.
- 3 ● The physicochemical properties of the PGS/MBG scaffold can be modulated.
- 4 ● Uncrosslinked PGS enhances the compressive strength and toughness of MBG scaffold.
- 5 ● This scaffold combines MBG's osteoinductivity and PGS's proliferation promotion.
- 6 ● Uncrosslinked PGS-induced scaffold comprehensive improvement is first investigated.

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