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(54) Title: METHOD OF FUNCTIONALIZATION OF A BIOPOLYMER AND METHOD OF CROSS-LINKING THEREOF

(57) Abstract: The invention relates to a method of functionalizing a biopolymer in which a biopolymer having -OH or -NH₂ groups is reacted with at least one compound containing at least one C=C or C≡C bond and a chromophore group absorbing UV-Vis radiation directly adjacent to this bond. The invention also relates to a method for obtaining a solid biopolymer material, in which the functionalized biopolymer obtained by the method specified above is subjected to reversible cross-linking upon exposure to light in the UV-VIS range. The invention also relates to the use of a functionalized biopolymer as a support material for 3D bioprinting, as well as the use of a functionalized biopolymer for the production of structures selected from spheroids, organoids, artificial organs, coatings, and tissue models.



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