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(54) **Polymer suitable for use in cell culture**

(57) The invention relates to a process for making an oligo(alkylene glycol) functionalized co-polyisocyanopeptide, wherein the process comprises the steps of:

i) copolymerizing

- a first comonomer of an oligo(alkylene glycol) functionalized isocyanopeptide grafted with a linking group and
- a second comonomer of a non-grafted oligo(alkylene glycol) functionalized isocyanopeptide,
wherein the molar ratio between the first comonomer and the second comonomer is 1:500 and 1:30 and

ii) adding a reactant of a spacer unit and a cell adhesion factor to the copolymer obtained by step i), wherein the spacer unit is represented by general formula A-L-B, wherein the linking group and group A are chosen to react and form a first coupling and the cell adhesion factor and

group B are chosen to react and form a second coupling, wherein the first coupling and the second coupling are independently selected from the group consisting of alkyne-azide coupling, dibenzocyclooctyne-azide coupling, oxanorbornadiene-based-azide couplings, vinyl-sulphone-thiol coupling, maleimide-thiol coupling, methyl methacrylate-thiol coupling, ether coupling, thioether coupling, biotin-streptavidin coupling, amine-carboxylic acid resulting in amides linkages, alcohol-carboxylic acid coupling resulting in esters linkages and NHS-Ester (N-Hydroxysuccinimide ester)-amine coupling and wherein group L is a linear chain segment having 10-60 bonds between atoms selected from C, N, O and S in the main chain.

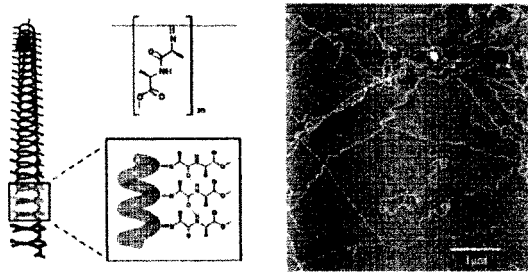


Figure 1