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(54) Title: HYDROGEL COMPOSITIONS AND METHODS OF USE THEREOF

(57) Abstract: A two-component hydrogel matrix system is provided, which system is useful in a variety of cell growth uses, including without limitation three-dimensional culture systems. The components comprise modified hyaluronic acid (HA); and modified elastin-like proteins (ELP). Variables of HELP, including for example, matrix stiffness, matrix stress relaxation rate, and cell-adhesive-ligand concentration, can be independently and quantitatively specified.



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