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(54) Title: VASCULAR PLANT BASED SCAFFOLD AND IN-VITRO METHOD FOR NEURAL STEM CELL CULTURE

(57) Abstract: A vascular plant based cellulose scaffold for in-vitro production or growth of neural stem cells is provided. The scaffold may be obtained by decellularizing a vascular plant or a part thereof and is capable of supporting the growth of neural stem cells. The scaffold may be coated with any traditional coating known in the art such as a biomolecule, a synthetic biomolecule (Poly-L-Ornithine), a ligand, a protein, an amino acid, an antibody, an extracellular matrix, fibrin, laminin, collagen, fibronectin, poly-L-lysine, a small molecule, a hydrogel, or a matrigel. An in-vitro method of growing or producing neural stem cells is also provided.



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