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(54) Title: COMPOSITIONS AND METHODS FOR STIMULATION OF HAIR GROWTH

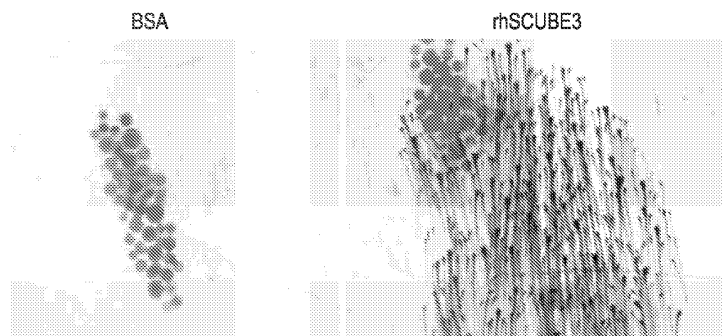


FIG. 2E

(57) Abstract: Proteins, peptides, nucleic acid molecules, compositions, and methods are provided for stimulating hair growth. Described herein is a composition comprising a Signal Peptide, CUB Domain and EGF Like Domain Containing (SCUBE) protein; a C-terminus peptide thereof (SCUBE-C); a synthetic SCUBE peptide (SCUBE-PP); or a nucleic acid sequence encoding SCUBE, SCUBE-C, or SCUBE-PP; and, optionally, a pharmaceutically acceptable excipient. In some embodiments, the SCUBE protein is a SCUBE3 protein; a C-terminus peptide thereof (SCUBE3-C); a synthetic SCUBE3 peptide (SCUBE3-PP). These materials and methods can be used to treat alopecia, to stimulate and accelerate hair regrowth after transplant, and to induce human hair growth.

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