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(54) Title: METHODS OF CLASSIFYING THE DIFFERENTIATION STATE OF CELLS AND RELATED COMPOSITIONS OF DIFFERENTIATED CELLS

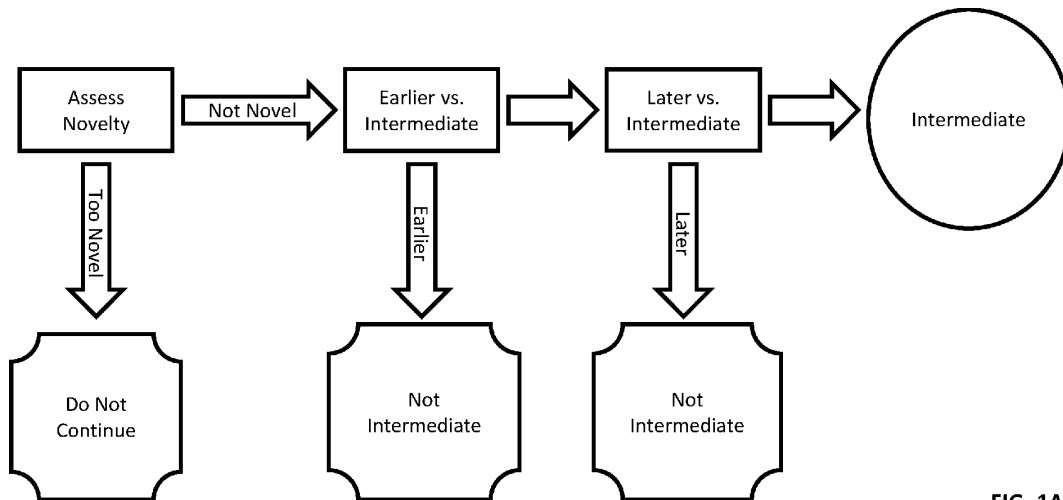


FIG. 1A

(57) Abstract: Provided herein are methods for classifying the differentiation state of an *in vitro* population of cells, for instance an *in vitro* population of neuronal cells, as well as methods for selecting and/or implanting an *in vitro* population of cells having a desired differentiation state. Also provided herein are computing devices for performing the provided methods as well as related compositions, articles of manufacture, and kits, including for use in methods of treating a subject having a disease or condition, such as a neurodegenerative disease, for instance Parkinson's disease.

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