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(71) Applicant *(for all designated States except US)*: **OTSUKA PHARMACEUTICAL CO., LTD.** [JP/JP]; 2-9, Kanda Tsukasa-Cho, Chiyoda-Ku, Tokyo (JP).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **OKAZAKI, Hiroshi** [JP/US]; 3 Sterling Court, Rockville, Maryland 20850 (US).

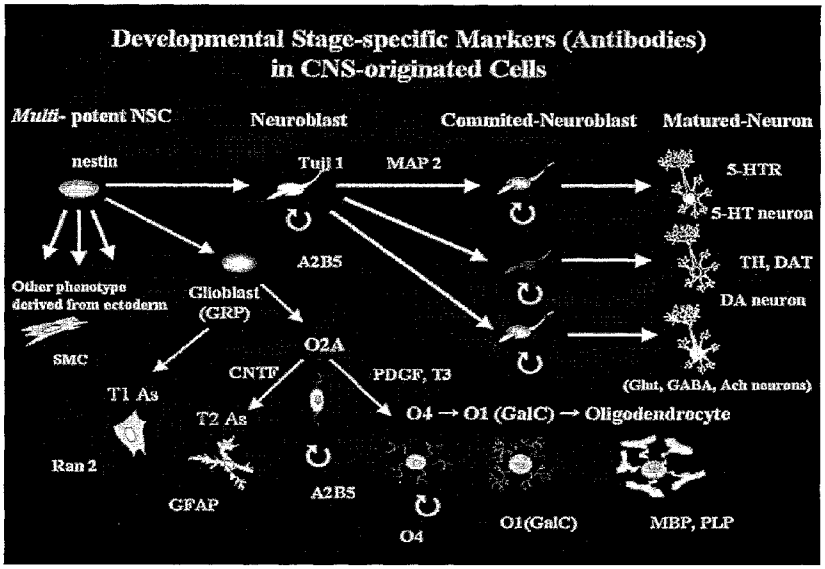
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(54) **Title:** OLIGODENDROCYTE PRECURSOR CELLS AND METHODS OF OBTAINING AND CULTURING THE SAME



(57) **Abstract:** The invention describes a self-renewing, phenotypically homogeneous population of oligodendrocyte precursor cells having a synchronized developmental stage and methods of obtaining a self-renewing phenotypically homogeneous population of oligodendrocyte precursor cells. Other methods include methods of maintaining and storing a homogeneous population of oligodendrocyte precursor cells for a prolonged period of time without change in the characteristics of the cells and methods of dedifferentiating oligodendrocyte precursor cells. The self-renewing, phenotypically homogeneous population of oligodendrocyte precursor cells or homogeneous population of oligodendrocytes may be useful for treating a patient having a CNS disorder or condition.

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