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(71) Applicant *(for all designated States except US)*: **THE SCRIPPS RESEARCH INSTITUTE** [US/US]; 10550 North Torrey Pines Road, Mail TPC-8, La Jolla, CA 92037 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LIN, Tongxiang** [CN/US]; 10550 North Torrey Pines Road, Mail TPC-8, La Jolla, CA 92037 (US). **DING, Sheng** [CN/US]; 10550 North Torrey Pines Road, Mail TPC-8, La Jolla, CA 92037 (US).

(74) Agents: **FLANAGAN, Lisa, D.** et al.; Kilpatrick Townsend & Stockton LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111 (US).

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(54) Title: INDUCTION OF PLURIPOTENT CELLS

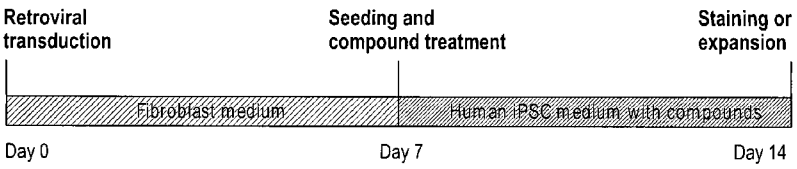


FIG. 1A

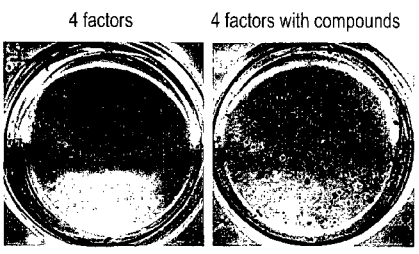


FIG. 1B

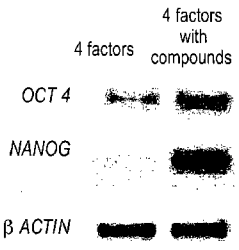


FIG. 1C

(57) Abstract: The slow kinetics and low efficiency of reprogramming methods to generate human induced pluripotent stem cells (iPSCs) impose major limitations on their utility in biomedical applications. Here we describe a chemical approach that dramatically improves (>200 fold) the efficiency of iPSC generation from human fibroblasts, within seven days of treatment. This will provide a basis for developing safer, more efficient, non-viral methods for reprogramming human somatic cells.

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