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(71) Applicant: **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 1 Fusionopolis Way, #20-10 Connexis, 138632 Singapore (SG).

(72) Inventors: **LOH, Yuin Han**; Agency for Science, Technology and Research, 1 Fusionopolis Way, #20-10 Connexis, Singapore 138632 (SG). **TAN, Hong Kee**; Agency for Science, Technology and Research, 1 Fusionopolis Way, #20-10 Connexis, Singapore 138632 (SG).

(74) Agent: **SPRUSON & FERGUSON (ASIA) PTE LTD**; P.O. Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

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(54) Title: METHOD FOR INDUCING PLURIPOTENCY IN A HEMATOPOIETIC CELL

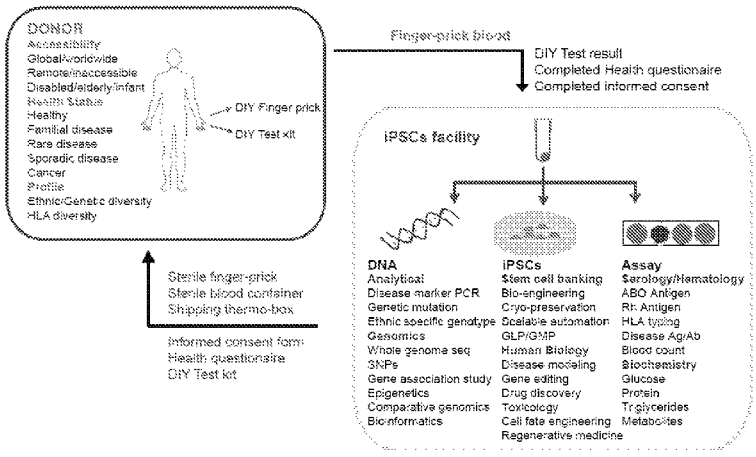


FIGURE 15

(57) Abstract: There is provided a method of inducing pluripotency in a hematopoietic cell. The method comprises providing a blood sample that has been collected from a subject in the absence of any polysaccharide preparation used for separating blood components. The sample is depleted of red blood cells by treating the sample with a hypotonic erythrocyte lysis buffer, in the absence of any polysaccharide preparation used for separating blood components, thus obtaining a remaining cell population. The remaining cell population in the sample is expanded in a hematopoietic expansion medium to obtain an expanded cell population that contains CD71+ cells, and the expanded cell population containing the CD71+ cells is then cultured in the presence of Oct4, Sox2, and Klf4, and optionally c-MYC, in human embryonic stem cell medium to induce pluripotency.

WO 2015/137885 A1