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(71) Applicant: **TZAR MANAGEMENT TECHNOLOGY PRIVATE LIMITED** [IN/IN]; A-2303, Fair Field Lodha Luxuria, Lodha Paradise, Near Majiwada Bridge, Thane (West), Maharashtra, Thane 400601 (IN).

(72) Inventors: **TRIPATHI, Vinay Kumar**; A-2303, Fair Field Lodha Luxuria, Lodha Paradise, Near Majiwada Bridge, Thane (West), Maharashtra, Thane 400601 (IN). **TRIPATHI, Ashish**; A-2303, Fair Field Lodha Luxuria, Lodha Paradise, Near Majiwada Bridge, Thane (West), Maharashtra, Thane 400601 (IN).

(74) Agent: **LAKSHMIKUMARAN, Malathi** et al.; B6/10, Safdarjung Enclave, New Delhi 110029 (IN).

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(54) Title: METHOD FOR ANALYSING PLURIPOTENT STEM CELL BIOMARKERS, AND IMPLEMENTATIONS THEREOF

(57) Abstract: The present disclosure discloses an *in-vitro* method for detecting presence of metabolically altered cells. Also, an *in-vitro* method for detecting presence of quiescent cells has been disclosed. The present disclosure discloses an *in-vitro* method for detecting and predicting presence of cancer. The present disclosure discloses an *in-vitro* method for monitoring response to anti-cancer therapy. The present disclosure analyses expression of at least one biomarker of pluripotent stem cell for detecting or predicting or monitoring cancer. A related use of the at least one biomarker of pluripotent stem cell marker along with a method of treatment comprising the *in-vitro* method of detection or prediction has been disclosed herewith.



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