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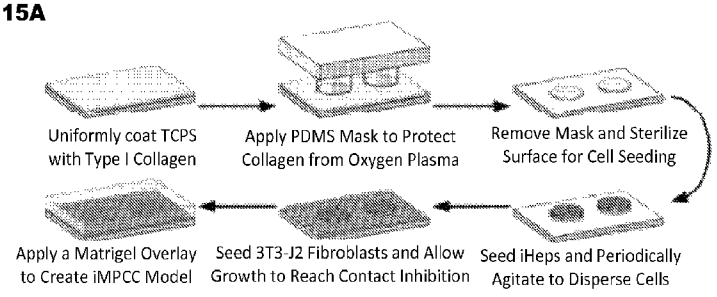
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15A



(57) Abstract: The present disclosure provides co-cultures of human pluripotent stem cell derived hepatocytes and at least one non-parenchymal cell population in vitro, methods of preparing the co-cultures and methods of using the co-cultures for high throughput screening and evaluation of drug candidates. The stem cell derived hepatocyte co-culture system provides an in vitro model in which cell viability and relatively mature hepatocyte phenotype of stem cell derived hepatocytes are maintained for extended periods relative to conventional monoculture.

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