



## A Human Pluripotent Stem Cell-Based Screening For Smooth Muscle Cell Differentiation And Disease

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### The Invention

Methods of using a small molecule MYH11 agonist to inhibit intimal hyperplasia and to maintain a contractile phenotype in vitro and in vivo are described. Also described herein are methods for generating human contractile smooth muscle cells from human pluripotent stem cells under defined conditions in the presence of the small molecule MYH11 agonist.

### Additional Information

#### For More Information About the Inventors

- [James Thomson](#)

#### Tech Fields

- [Pluripotent Stem Cells : Differentiation](#)
- [Therapeutics & Vaccines : Cardiovascular](#)

For current licensing status, please contact Andy DeTienne at [adetienne@warf.org](mailto:adetienne@warf.org) or 608-960-9857