



GENERATION OF INDUCED NEUTROPHILS WITH INCREASED ACTIVATION AND TRANSMIGRATION CAPABILITIES

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Inventors: Anna Huttenlocher, David Bennin, Frances Smith

The Invention

UW-Madison researchers have discovered that MYDGF-knockout iNeutrophils (neutrophils produced through differentiation from pluripotent stem cells) have the ability to efficiently migrate across endothelium in response to bacteria. MYDGF-knockout iNeutrophils also show a more activated phenotype with aggregation, increased ROS production and other antimicrobial effector functions. The MYDGF-knockout iNeutrophils exhibit better activity than any similar line. Accordingly, the use of MYDGF-knockout PSCs is recommended for the production of robust iNeutrophils.

Additional Information

For More Information About the Inventors

- [Anna Huttenlocher](#)

Tech Fields

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

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