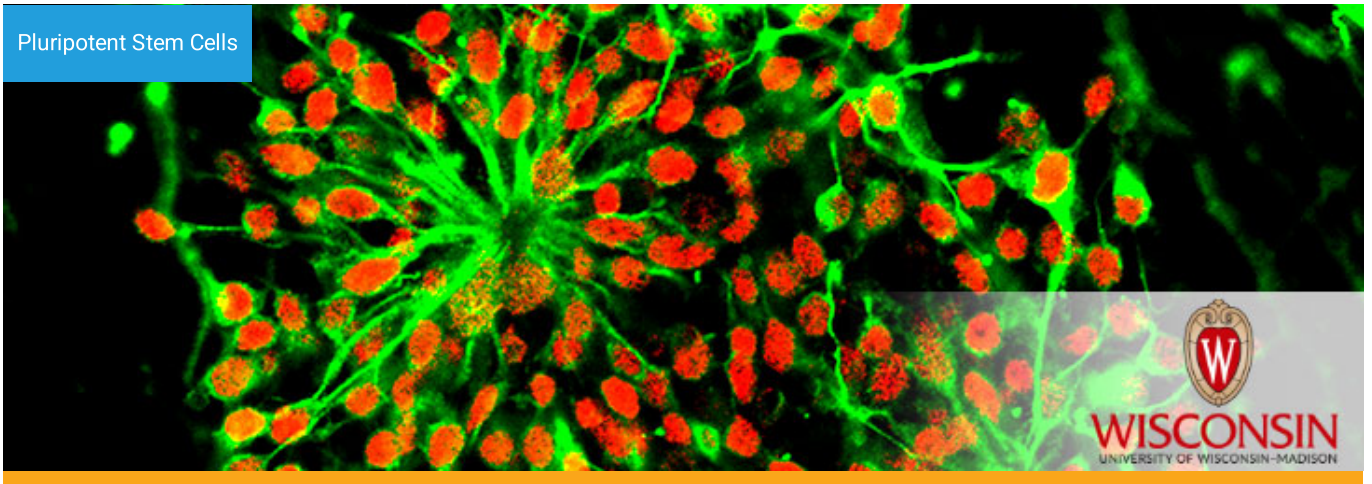


Pluripotent Stem Cells



SIRP α Knockout iPSC-derived and CAR-comprising Macrophages with Enhanced Anti-tumor Activity

WARF: P250102US03

Inventors: Igor Slukvin, Portia Smith, Jue Zhang

The Invention

UW-Madison researchers have discovered new uses for macrophages produced without SIRP α . SIRP α is a ligand for the ubiquitously expressed “don’t-eat-me” signal molecule CD47. The inventors discovered that SIRP α -KO i-Macs are resistant to ‘macrophage exhaustion’, which is the property reported by others that the antibody-dependent phagocytic activity of macrophages falls off over time, even if re-exposed to the target agent. No resistant macrophage has been reported to date. SIRP α -KO i-Macs keep going, through 120 hours at least, and the researchers see renewed activity if they resupply Abs.

Additional Information

For More Information About the Inventors

- [Igor Slukvin](#)

Tech Fields

- [Pluripotent Stem Cells : Differentiation](#)
- [Therapeutics & Vaccines : Anti-infectives \(antibacterials, antifungals, antivirals\)](#)
- [Therapeutics & Vaccines : Biologics](#)

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