Pro-Inflammatory and Anti-Inflammatory Mesenchymal Stem Cells

Inventor
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Intellectual Property
- PCT/US2011/055831

Available For
- Exclusive Licensing in a Field
- Non-exclusive Licensing
- Scientific Collaboration

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Tulane University is actively seeking commercial entities to further develop and commercialize a novel method of producing mesenchymal stem cells (MSCs) that can be stored and used to predictably enhance or inhibit inflammation.

Applications
- Localized anti-inflammatory therapy for the following diseases: arthritis, inflammatory bowel disease, Crohn’s disease, acute lung injury, chronic pain and organ rejection
- Localized pro-inflammatory therapy to enhance the immune response for patients with cancer, pathogenic infections, and other immune diseases
- Treatment of acute or chronic conditions

Advantages
- Unique tissue-targeted inflammatory control
- Avoids adverse effects of current anti-inflammatory therapies
- Simple to produce
- Easy to store and distribute
- Predictable response

Development Status
This technology has been tested extensively by in vitro assays and in several mouse models with success. Laboratory work is ongoing for further data and to ensure scalability.