



Catheter for Cell Delivery in Tissue

IP Status: Issued US Patent; **Application #:** 10/013,636

MRI Compatible Cell Delivery Device

The cell delivery device can deliver cells to target sites in the extracellular space of the brain. This MRI compatible invention is designed to maintain cell viability and inhibit cell aggregation. The device is minimally invasive, causing little to no damage during insertion, allowing for a greater likelihood of cell implantation. The correct nutrient supply of the cell suspension is maintained and waste products are removed during cell injection to maximize cell viability. For extra precision and accuracy of cell delivery during cell therapy, the tip of the device can be seen and guided via MRI.

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- Exclusive license for a \$25,000 conversion payment.
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Technology ID

z01124

Category

Life Sciences/Medical Devices

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Accurate Cell Delivery with Greater Cell Viability

Cell delivery enhances target set accuracy and cell viability and results in greater success for cell implantation therapies. Targeted cell delivery during cell implantation therapy requires the precise application in a manner that maintains cell viability. Without targeted delivery, cells may not implant correctly and function as desired. Additionally, the chance for cell viability decreases without providing the proper nutrients at the proper concentration during implantation. During injection into the extracellular space of the brain, delivery methods must be minimally invasive in order to prevent damage to surrounding tissues. Cell implantation therapies may have implications for Parkinson's, Alzheimer's, and other brain-related dysfunctions.

BENEFITS OF THE MRI COMPATIBLE CELL DELIVERY CATHETER:

- Prevention of aggregation and cell damage during injection
- Decreases damage to tissue during device insertion
- Precise positioning for more accurate tissue delivery

Fulfillment Details Licensee will receive rights to practice the issued patent for the purposes of developing and manufacturing a commercial product.

Phase of Development Conceptual

Researchers:

School

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