

# **Artificial Cells for Advanced Drug Delivery**

Dr. Hongjun Liang

## Department of Metallurgical and Materials Engineering

**Description:** This invention uses hybrid artificial cells based on the latest developments in nanotechnology for next-generation drug delivery and solves the problem of crossing a biological barrier to deliver the drugs. The artificial cells will carry therapeutic agents in significant numbers without chemical modification of the individual drug molecules. This is particularly advantageous for drugs that have a narrow therapeutic index and challenging physical characteristics, such as anti-cancer drugs.

## **Potential Areas of Application**

- Drug therapeutics
- Drug development

### Main Advantages of this Invention

- Effective delivery of the drug through the biological barriers
- No need to chemically alter the drug
- Administered intravenously

Intellectual Property Status: Patent filed February 11th, 2009

**ID number:** US Patent application 12/704416

**Opportunity:** We are seeking an exclusive or non-exclusive licensee for marketing, manufacturing, and sale of this technology.

### Contact

William Vaughan Director, Technology Transfer Colorado School of Mines 1500 Illinois Street Guggenheim Hall, Suite 314 Golden, CO 80401 Phone: 303.384.2555 Fax: 303.273.3244 Email: wvaughan@mines.edu