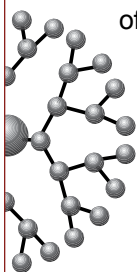




THE NATIONAL DENDRIMER & NANOTECHNOLOGY CENTER

The National Dendrimer and Nanotechnology Center is located in Mt. Pleasant, Michigan at Central Michigan University. The Dendrimer Center is a catalyst and focal point for new dendrimer based research and technologies in biomedical, diagnostic and nano-material applications. The Center is positioned to become a repository for human and environmental safety and toxicity data related to dendrimers and other nanostructures.

In March of 2007, Central Michigan University (CMU) completed a 17,000 square foot expansion to the existing incubation facility, supported by CMU and grants from the Michigan Economic Development Corporation and U.S. Economic Development Administration. The Research Facility features state-of-the-art chemistry and bio-level laboratories, with facilities immediately available for lease.




RESEARCH

The current research agenda focuses on several types of dendrimer and nanoscale sciences, such as:

- Drug encapsulation, release and disease targeting protocols, which are being established and tested for cancer therapy and anti-inflammatory drug systems using a range of dendrimer carrier structures.
- The use of dendrimers as contrast agents in magnetic resonance imaging applications.
- The use of dendrimers as a catalyst in the production of carbon nanotubes at the lowest temperatures recorded.


PARTNERSHIPS

The Dendrimer Center has generated a number of new strategic partnerships and collaborative relationships including The Dow Chemical Company, Dendritic Nanotechnologies, Inc., U.S. Army Research Laboratory, Starpharma, and the U.S. Food and



Drug Administration, among others. The resulting partnership of university and private industry has sparked numerous collaborative research endeavors and generated millions of dollars in private and public sector investment.

RESULTS



Valuable intellectual property is being created as a result of the Dendrimer Center's research activities. Dendrimer Center researchers have filed numerous invention disclosures, publications and full patent applications. All breakthroughs are promising and could have significant commercial value. This success has led to significant economic growth and expanded student research opportunities.



2625 Denison Drive | Mount Pleasant, MI 48858

p: 989.774.2424 | f: 989.774.2416 | e: cmurc@cmich.edu

visit us online: www.dendrimercenter.org

The Center for Applied Research & Technology (CART) is a 300-acre certified technology park designated by the Michigan Economic Development Corporation as a Michigan SmartZone. The Mount Pleasant SmartZone has been designed to attract and stimulate high-tech businesses that benefit from a coefficient relationship with Central Michigan University, a doctoral/research intensive institution.

CART is managed by the CMU Research Corporation (CMU-RC), located in the Center's Research and Incubation Facility. Collaborating with top-notch technology and research sponsors, CMU-RC has focused its efforts on leading edge, industry-driven research areas while drawing upon a vast wealth of intellectual capital offered by Central Michigan University.

TECHNOLOGY ACCELERATION

CMU-RC's Technology Acceleration Program assists high-tech start-up companies with the challenges they face during the early stages of development. Those enrolled in the program will benefit from the full attention and support of CMU-RC staff and university executives, including assistance with:

- Business analysis & strategic planning
- Introductions to strategic partners, and customers
- Reduction of operational expenses
- Access to various funding sources
 - Traditional funding sources
 - Venture capital & other investors
 - Federal & state grants

STATE OF THE ART FACILITIES

CMU-RC is located in the Center for Applied Research and Technology's research facility, a 12,000 square foot incubator facility outfitted with high-speed network access and contemporary office space and a 17,000 square foot wet-lab which houses state-of-the-art chemistry and bio-level laboratories.

Research facility tenants have access to benefits such as:

- World class laboratories
- Central conference areas
- Flexible, affordable leases
- Super computing equipment and software

RESEARCH CENTERS

Central Michigan University has established a number of centers of excellence focused on areas designed to provide valuable insights and services to the global business community.

The CMU Research Corporation is the single point of contact to help businesses leverage the unique strengths of each of the following centers:

- Dendrimer Center
- Business Intelligence
- Geographic Information Systems
- Supply Chain Management
- Health Information Systems

