



# KU Technology Transfer

## Promoting Innovation to Benefit Society

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## New KU Technologies

### Results Oriented Management Outcomes Report System

Inventor: Terry Moore, Ph.D.

Social service managers operate in a fast-paced, detail-oriented and complex work environment that makes tracking and summarizing performance a challenge. The Results Oriented Management (ROM) Outcomes Report System is a web-based performance reporting system that is designed to provide social service managers with current performance data and a means of analyzing their performance. The initial System focuses on outcome measures for which State

child welfare programs are held accountable. This system provides a well-thought-out way of presenting and accessing performance data, and includes features such as user-set parameters, views of data over time and between units, graphs and tables, summary reports that compare progress to set standards. The ROM Outcomes Report System is inexpensive to implement and can be modified for other social service settings.

### Synthesis of Amino Acid Derived Cyclic Enaminones

Inventor: Gunda Georg, Brandon Turunen

This is a new process which allows for the efficient preparation of cyclic and bicyclic enaminones. This new method describes the intramolecular addition of amines to ynones, using commercially available amino acids as building blocks and without the use of organometallic catalysis to promote the reaction. These core structures have enormous synthetic

potential as scaffolds for combinatorial chemistry and in alkaloid synthesis. Uses of the technology include preparation of bioactive natural products and generating 'libraries' of compounds, natural and otherwise, which can be used in high through-put screening.

## Coalition of University Regional Economies

by James G. Baxendale, Director

In December 2003, representatives from various universities, including myself, and respective local economic development organizations held their winter meeting in Chicago. Following is a brief report of economic development progress at some of KU's colleague institutions in the Midwest.

■ **Ohio University** representatives said they are focusing on entrepreneurship and growing companies. They will soon have a grand opening of their new Business Incubator, partially funded by EDA sources. The University has also established a "Community Research Fair" to let the community know more about their research programs.

■ **The University of Arkansas** has created an Economic Development Institute, in which 20% of faculty participate, to create a capabilities index and develop new programs.

■ **The University of Illinois** has created a Seed Capital Fund of \$10-20 M funded by alumni. In addition, the Illinois Legislature has established Economic Development as a 4<sup>th</sup> mission for the University. The University has also created a new position of VP of Economic Development.

■ **The University of Kentucky** has also established Economic Development as a 4<sup>th</sup> mission of their University. They have formed an Entrepreneurs Club for multidisciplinary students who meet once a month to hear various speakers and work (shadow) with a mentor (entrepreneur). The leader of this effort is not from the School of Business, but from Agricultural Economics. The University has placed Patents and Invention Disclosures in the Promotion and Tenure Outline, as well as a brief statement on Economic Development. The University currently has a 7,000 square foot cGMP facility for non-sterile products and is constructing a 20,000 square foot sterile processing facility at a cost of \$14 M.

■ Construction on the **Purdue** campus has increased, funding is up and a new Office of Engagement has been created to foster economic development. They are constructing a new 40,000 square foot Incubator with wet lab space. Their current 40,000 square foot Incubator has no wet lab space. A new cGMP facility is being constructed for drug delivery and packaging of active ingredients sent by pharmaceutical companies.

## Patents Issued

*Peptide Compositions which Induce Immune Tolerance and Methods of Use*

Stephen Benedict

US Patent. 6,653,282 B1  
Issued November 25, 2003

## Check It Out

KU Technologies Available for Licensing

<http://www.research.ku.edu/techtran/lictech/kulc.shtml>

Information for KU Inventors

Invention Disclosure Form

<ftp://www.research.ku.edu/pub/tt/invdisc.doc>

Guide for Inventors

<ftp://www.research.ku.edu/pub/tt/inventor.pdf>

The KU Technology Transfer newsletter is published bi-monthly through the KUTTNEWS list serve. This newsletter is distributed to interested KU faculty and staff, economic development organizations and others interested in learning about KU innovations.

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# KU Partners in Innovation

The KU Office of Technology Transfer and Intellectual Property works closely with designated research centers at the University and external economic development organizations to bridge the gap between technology development and commercial applications.

## Center for Environmentally Beneficial Catalysis (CEBC) <http://www.ku.edu/~cebc>

Dedicated to engineering environmentally responsible chemical processes and products, CEBC is a collaborative research center at University of Kansas, University of Iowa, and Washington University, St. Louis. Innovations resulting from CEBC research will impact a wide cross-section of the chemical industry including agriculture, fine and specialty chemicals, consumer products, petroleum and petrochemical processes, and pharmaceuticals.

## Enterprise Center of Johnson County (ECJC) <http://www.ecjc.com/>

ECJC is a business incubator that provides high-growth potential companies and entrepreneurs with the resources they need to build successful businesses in Johnson County, including cost-effective office space, shared resources, an entrepreneurial environment and business consulting services. The ECJC is a not-for-profit corporation funded by the government of Johnson County, the Kansas Technology Enterprise Corporation (KTEC), Kauffman Foundation, and several corporate and foundation sponsors.

## Higuchi Biosciences Center (HBC) <http://www.hbc.ku.edu/>

HBC scientists conduct research in basic biomedical problems, bioanalytical chemistry, drug delivery systems, neurological sciences and immunology. Many HBC-affiliated scientists work closely with companies to license and commercialize technologies developed in HBC laboratories. The center is named for Takeru Higuchi, a longtime KU distinguished professor and the founder of physical pharmacy.

## Information and Telecommunication Technology Center (ITTC) <http://www.ittc.ku.edu/>

ITTC scientists focus on research and development, as well as technology transfer, in the area of transmission systems. Under investigation are networking and distributed systems, lightwave communication systems, intelligent systems and information management, wireless communications, digital signal processing, radar systems and remote sensing. ITTC helps regional and national companies to study and solve problems and thus increase their competitive advantage.

## Lawrence Life Sciences Center <http://www.lawrencelifesciences.com/>

The Lawrence Life Sciences Center is designed to intermingle firms focused on life sciences, research, university spin-off companies and related support businesses on a site adjacent to the K.U. Life Sciences Research Laboratories and in collaboration with the University.

## Lawrence Regional Technology Center (LRTC) <http://www.lrtc.biz/>

LRTC is a not-for-profit small business incubator whose mission is to provide business development assistance to early-stage businesses that have spun off from the University of Kansas, as well as to local entrepreneurs. LRTC works with all types of technology-based companies, with a particular focus on life sciences, information technology, communications and software.

## Kansas City Area Life Sciences Institute (KCALSI) <http://www.kclifesciences.org/>

KCALSI is a non-profit organization assisting with the transformation of Kansas City into a center for excellence in life sciences research and development. The KCALSI and its stakeholder institutions share an ambitious goal—to make new discoveries in aging and related diseases, neuro-degenerative and cardiovascular diseases, cancer and infectious diseases.

## KCCatalyst <http://www.kccatalyst.com/>

KCCatalyst is working to build a world-class life sciences and technology community in the bi-state Kansas City region. Collaboration, commercialization and capital formation are the founding concepts of the organization. KCCatalyst assists entrepreneurs in technology and life-science-focused businesses by helping them make their ideas capital-ready and then serving as a conduit to local, regional, and national capital funding sources.

## KCSourceLink <http://www.kcsourceink.org/>

A referral network, KCSourceLink connects emerging and existing small businesses to nonprofit resource partners in the broad Kansas City region. These organizations provide a wide range of services.

## Kansas Technology Enterprise Corporation (KTEC) <http://www.ktec.com/>

KTEC is a state-owned corporation established by Kansas to promote advanced technology economic development. KTEC has designed and built a statewide network to support researchers, entrepreneurs, and businesses through each phase of the technology life cycle, resulting in a successful product.

## University of Kansas Small Business Development Center <http://www.kusbdc.net/>

The KU SBDC assists with the growth of Kansas small businesses by providing low cost training seminars, and one-to-one counseling services. The KU-KSBDC is a partnership program between the U.S. Small Business Administration (SBA), Kansas Department of Commerce and Housing (KDOCH), University of Kansas School of Business, and the Lawrence Chamber of Commerce