

COUNTRY: Hungary

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INTERST AND EXPERTISE:

The research conducted in our group is biotechnology oriented. The ongoing activities can be divided into two main fields: conversion of various industrial and agricultural lignocellulosic biomass into ethanol or hydrogen; and application of cellulases and xylanases in the paper industry enhancing secondary fiber utilization. To explain the name of our group "Non-Food" it is originated from the idea of using agricultural crops as raw materials for the production of various products, which are not used in the food industry.

Ongoing Projects

Conversion of Lignocellulosics to Ethanol
Conversion of Lignocellulosics to Hydrogen
Cellulase production on waste carbon sources
Application of Enzymes in the Paper Industry

web: http://www.nonfood.bme.hu/index_e_r.html

EXPERTISE OF DEPARTMENT & INSTITUTE:

Budapest University of Technology and Economics
Dept. of Agricultural Chemical Technology

Ongoing Projects

- Mathematical modeling of eukaryotic cell cycle control mechanisms, including *Xenopus* embryos, fission yeast, budding yeast and mammalian cells
- Evolution of the cell cycle regulation mechanisms of eukaryotic cells
- Research and development of biotechnology processing
- Microbiology in general, food and agricultural industry
- Developing, modeling and optimizing fermentation processes
- Research and development in the field of environment protection and biotechnological processing of waste and drinking waters
- Monitoring and risk assessment in nature, soil protection
- Degrading of Xenobiotics
- Development of microbial strain culture collection

web: <http://www.ch.bme.hu/hun/tanszek/mkt/kutat.htm>