

## Agricultural Biotechnology Center

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The Agricultural Biotechnology Center (ABC) was founded by the Ministry of Agriculture in 1989 based upon the realisation that biotechnology and its application are the key factors in the future competitiveness of the Hungarian agriculture. Today, the institute is supervised by the Ministry of Agriculture and Regional Development. The center deals with biotechnology research and development for an environmentally sound Hungarian agriculture and participates in the training of biotechnologists and coordinations of biotechnology research activities sponsored by the Ministry of Agriculture and Regional Development.

Today the ABC is the largest research institute among the 24 sponsored by the Ministry of Agriculture and Regional Development with 180 employees, 120 of which belong to the scientific staff, including 30-40 graduate students in various Ph.D programmes. Based on the concept of the Foundation Letter of the Institute, research is carried out in 4 institutes: Animal Biology, Environmental Biosafety Institute, Genetics and Plant Biology.

The research activity of ABC focuses on the molecular aspects of plant and animal development, breeding and modern environmental technologies.

The research groups of the institute have the right to select their field of research, which at present is dominated by molecular and cellular approaches. Collaborative projects with international partners represent an important section of the research activity.

The institute has state of art technical facilities, with an overall laboratory area of 4000 m<sup>2</sup>, a greenhouse (800 m<sup>2</sup>), and animal houses for small laboratory animals. The equipment and the basic instrumentation of the institute meet the international standards. Competitive research in biotechnology requires constant improvement of the instrumentation, thus the institute established central laboratories equipped for DNA synthesis and sequencing, bioinformatics and antibody production.

The institute regularly hosts international and national scientific meetings and each year organises a small conference "The ABC days" which provides a forum for the staff scientists to present their newest achievements

- [Promoter analysis of the rabbit POU5F1 gene and its expression in preimplantation stage embryos.](#)  
*BACKGROUND: The POU5F1 gene encodes the octamer-binding transcription...*5th November, 2009  
Micromanipulation and Genetic Reprogramming Group, Agricultural- BMC Mol Biol. 2009 Sep 4;10:88. ([DOI Direct Link](#))
- [Plant upstream ORFs can trigger nonsense-mediated mRNA decay in a size-dependent manner.](#)  
*Nonsense-mediated decay (NMD) is a quality control mechanism that...*5th November, 2009  
Agricultural Biotechnology Center, Szent-Gyorgyi 4, 2100 Godollo, Hungary.- Plant Mol Biol. 2009 Nov;71(4-5):367-78. Epub 2009 Aug 4. ([DOI Direct Link](#))
- [Determination of oocyte membrane permeability coefficients and their application to cryopreservation in a rabbit model.](#)  
*Having an effective means to cryopreserve human oocytes would offer more...*30th October, 2009  
Agricultural Biotechnology Center, Godollo, Hungary.- Cryobiology. 2009 Oct;59(2):127-34. Epub 2009 Jun 13. ([DOI Direct Link](#))
- [In situ detection of miRNAs using LNA probes.](#)  
*A spatial and temporal analysis of miRNA accumulation by in situ analyses...*6th October, 2009  
Agricultural Biotechnology Center, Godollo, Hungary.- Methods Mol Biol. 2010;592:127-36. ([DOI Direct Link](#))
- [N-starvation stress induced FUM gene expression and fumonisin production is mediated via the HOG-type MAPK pathway in Fusarium proliferatum.](#)  
*During cultivation of a wild type strain of Fusarium proliferatum on...*25th July, 2009  
Agricultural Biotechnology Center, Mycology Group of the Hungarian Academy- Int J Food Microbiol. 2009 Mar 15;130(1):65-9. Epub 2009 Jan 9. ([DOI Direct Link](#))
- [Live birth of somatic cell-cloned rabbits following trichostatin A treatment and cotransfer of parthenogenetic embryos.](#)  
*Somatic cell nuclear transfer (SCNT) efficiency is still low in rabbit...*27th May, 2009  
Agricultural Biotechnology Center, Godollo, Hungary.- Cloning Stem Cells. 2009 Mar;11(1):203-208. ([DOI Direct Link](#))
- [Expression patterns of cel5A-cel5B, two endoglucanase encoding genes of Thermobifida fusca.](#)  
*Expression patterns of cel5A and cel5B, two endoglucanase encoding genes...*6th March, 2009  
Agricultural Biotechnology Center, Mycology Group of the Hungarian Academy- Acta Microbiol Immunol Hung. 2008 Dec;55(4):437-46. ([DOI Direct Link](#))
- [Characterization, chromosomal assignment, and role of LIFR in early embryogenesis and stem cell establishment of rabbits.](#)  
*Leukemia inhibitory factor (LIF) is a multifunctional cytokine with an...*3rd February, 2009  
Agricultural Biotechnology Center, 2100, Szent-Gyorgyi A. st.4, Godollo,- Cloning Stem Cells. 2008 Dec;10(4):523-34. ([DOI Direct Link](#))
- [Cotransfer of parthenogenetic embryos improves the pregnancy and implantation of nuclear transfer embryos in mouse.](#)  
*The majority of somatic cell nuclear transfer (SCNT) clones dies in the...*3rd February, 2009  
Genetic Reprogramming Group, Agricultural Biotechnology Center, Godollo,- Cloning Stem Cells. 2008 Dec;10(4):429-34. ([DOI Direct Link](#))
- [Dwarf plants of diploid Medicago sativa carry a mutation in the gibberellin 3-beta-hydroxylase gene.](#)  
*In this paper we describe the identification of a gene, MsDWF1 coding for...*17th December, 2008  
Institute of Genetics Agricultural Biotechnology Center, Szent-Gyorgyi A.- Plant Cell Rep. 2008 Aug;27(8):1271-9. Epub 2008 May 27. ([DOI Direct Link](#))
- [The effects of enhanced methionine synthesis on amino acid and anthocyanin content of potato tubers.](#)

*BACKGROUND: Potato is a staple food in the diet of the world's population...*30th September, 2008  
 Agricultural Biotechnology Center, P,O, Box 411, H-2101 Godollo, Hungary.- BMC Plant Biol. 2008 Jun 12;8:65. ([DOI Direct Link](#))

- [Nucleotide sequence analysis of peanut stunt virus Rp strain suggests the role of homologous recombination in cucumovirus evolution.](#)

*The complete nucleotide (nt) sequence of peanut stunt virus Robinia strain...*30th August, 2008  
 Agricultural Biotechnology Center, Szent-Gyorgyi Albert u. 4, 2100,- Arch Virol. 2008;153(7):1373-7. Epub 2008 Jun 4. ([DOI Direct Link](#))

- [Inhibition of 3' modification of small RNAs in virus-infected plants require spatial and temporal co-expression of small RNAs and viral silencing-suppressor proteins.](#)

*Plant viruses are inducers and targets of RNA silencing. Viruses...*13th August, 2008  
 Agricultural Biotechnology Center, PO Box 411, H-2101 Godollo, Hungary.- Nucleic Acids Res. 2008 Jul;36(12):4099-107. Epub 2008 Jun 6. ([DOI Direct Link](#))

- [Fphog1, a HOG-type MAP kinase gene, is involved in multistress response in Fusarium proliferatum.](#)

*Delta Fphog1 mutants of Fusarium proliferatum obtained by targeted gene...*24th July, 2008  
 Agricultural Biotechnology Center, Mycology Group of the Hungarian Academy- J Basic Microbiol. 2008 Jun;48(3):151-9. ([DOI Direct Link](#))

- [Inter-kingdom conservation of mechanism of nonsense-mediated mRNA decay.](#)

*Nonsense-mediated mRNA decay (NMD) is a quality control system that...*10th June, 2008  
 Agricultural Biotechnology Center, Godollo, Hungary.- EMBO J. 2008 Jun 4;27(11):1585-95. Epub 2008 May 1. ([DOI Direct Link](#))

#### Press Releases on Agricultural Biotechnology Center:

<a href="#">River Blindness (Onchocerciasis) Reduced By Nearly One-Third In At-Risk Populations In Six Countries</a>	21st November, 2009	American Society of Tropical Medicine and Hygiene	WASHINGTON, Nov. 21 /PRNewswire-USNewswire/ -- A regional initiative launched in the 1990s to eliminate onchocerciasis (river blindness) in the Americas has substantially reduced the prevalence of the
<a href="#">SIRIUS XM to Broadcast &amp; Doctor Radio Reports: What Every Woman Needs To Know About Mammograms&amp;apos;</a>	20th November, 2009	SIRIUS XM Radio	NEW YORK, Nov. 20 /PRNewswire-FirstCall/ -- SIRIUS XM Radio (Nasdaq: SIRI) today announced that it will broadcast Doctor Radio Reports: What Every Women Needs to Know About Mammograms, an in-depth
<a href="#">Senate Health Bill Raises Taxes on Families of Special Needs Children</a>	20th November, 2009	Americans for Tax Reform	WASHINGTON, Nov. 20 /PRNewswire-USNewswire/ -- There are 18 separate tax hikes in the Reid-Obama healthcare bill. One of them caps the amount that can be deferred in Flexible Spending Accounts (FSAs)

[Half of Eligible Patients Do Not Get Aortic Valve Replacement](#)

20th November, 2009 University of Michigan Health System

ANN ARBOR, Mich., Nov. 20 /PRNewswire-USNewswire/ -- Fear about the risk of surgery is among the reasons half of eligible patients are not getting aortic valve replacement surgery, according to a

[NCCN Emphasizes Tailored Treatment in Discovery Health Channel Program Metastatic Breast Cancer: Individualizing Treatment](#)

20th November, 2009 National Comprehensive Cancer Network

NCCN program on Discovery Health Channel profiles patients undergoing treatment for metastatic breast cancer and their physicians' use of the NCCN Clinical Practice Guidelines in Oncology(TM)

**BioNews Results for Agricultural Biotechnology Center**



- [Monsanto Opens First Biotechnology Research Center in China](#)  
*TickerTech.com: Nov 5 2009 6:09AM Matching: agricultural biotechnology center*
- [Monsanto opens first biotechnology research center in China](#)  
*Your Industry News: Nov 5 2009 1:29PM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research C](#)  
*Checkbiotech: Nov 4 2009 4:51PM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*Food Ingredients First: Nov 4 2009 5:14PM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*Forbes.com: Nov 4 2009 9:21AM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*Pharma Live: Nov 4 2009 11:36PM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*KOTA Territory News: Nov 4 2009 3:29PM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*PR Newswire: Nov 4 2009 2:47PM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*Business Journal of Milwaukee: Nov 4 2009 10:54AM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*Nashville Business Journal: Nov 4 2009 8:37AM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*Sacramento Business Journal: Nov 4 2009 8:34AM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*Montana's News Station: Nov 4 2009 8:33AM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*Houston Chronicle: Nov 4 2009 8:24AM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)  
*Globe Investor: Nov 4 2009 7:39AM Matching: agricultural biotechnology center*
- [Monsanto Opens First Biotechnology Research Center in China](#)

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