

## Fall 2009

### Clinical Trials

Current [clinical trials](#) at all Mayo Clinic locations.

### Areas of Research

An [A-Z list](#) of significant areas of research at Mayo Clinic.

### Faculty Profiles

An [A-Z list](#) of Mayo researchers.

### Publications

Search a listing of recent [peer-reviewed publications](#) by Mayo Clinic Authors.

### E-mail Newsletters

Keep up-to-date with Mayo activities through [e-mail newsletters](#).

### Data Mining to Redesign Critical Care Services

The first 24 hours after acute illness or injury are critical. Using informatics, epidemiology, systems engineering and medical-record studies, Ognjen Gajic, M.D., and his research team are defining best practices in critical care. Their groundbreaking work is improving patient safety in ICUs and significantly cutting the cost of health care. It's part of Mayo's continuing innovation in the science of health care delivery.

[Learn more.](#)

### Zebrafish Genetics

Zebrafish make an ideal model organism for genetic and developmental studies. Molecular biologists are using the zebrafish to investigate new treatments for cancer and nicotine addiction, and as a way to get students excited about science.

[Learn more.](#)



### Diabetes and Heart Damage – a Regenerative Medicine Approach

Yasuhiro Ikeda, D.V.M., Ph.D., removes a reservoir slide tray from an incubator in his lab. There, beneath the microscope, we see heart muscle-like cells, beating. Originally they were adult skin cells. They have been transformed into undifferentiated stem cell-like cells – induced pluripotent stem cells – and then into the specialized cells of heart muscle. Mayo researchers are exploring the potential of induced pluripotent stem cells in regenerating organs. Among the goals: alleviate heart damage and Type 1 diabetes.

[Learn more.](#)

### Brain Cancer: Angling for its Origins

What causes brain tumors? Using statistics from Mayo's enormous patient databases, genetics researchers are learning how genetic mutations and environmental triggers increase the risk of developing brain cancer.

[Learn more.](#)

### Changing Science Education — One school, 18 teachers and a couple thousand zebrafish at a time

How a Mayo researcher and Rochester students team up to inspire each other.

[Learn more.](#)

## Other Research News

[Mayo Clinic Tests Non-Incision, Endoscopic Ulcer Repair](#)

[Novel Breast Tissue Feature may Predict Woman's Cancer Risk](#)

[Two Genes Identified as Potential Therapeutic Targets for Multiple Sclerosis](#)

## Researchers Find Lung Cancer Oncogene Holds Key to Turning off Cancer Stem Cells

### Discovery's Edge, the Print Magazine

Discovery's Edge is now available in a print issue twice a year. Delve into research as never before with this 32-page magazine, featuring ongoing scientific studies, profiles, and other news from Mayo Clinic. Even better, it's free. Just send us your mailing address at [newsbureau@mayo.edu](mailto:newsbureau@mayo.edu).

[Discovery's Edge](#), Mayo Clinic's online research magazine, highlights stories of leading medical investigators. Many features cover ongoing projects long before they reach the journals.

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