

Quietly Setting A Whole New Standard

The Bedford Stem Cell Research Foundation is rapidly advancing biomedical research. A Massachusetts public charity, it is setting the standard for ethical and scientific progress in human embryonic stem cell research.

Bedford Stem Cell Research Foundation is a biomedical institute which exists to conduct stem cell and related research for diseases and conditions which currently have no effective methods of treatment or cure.

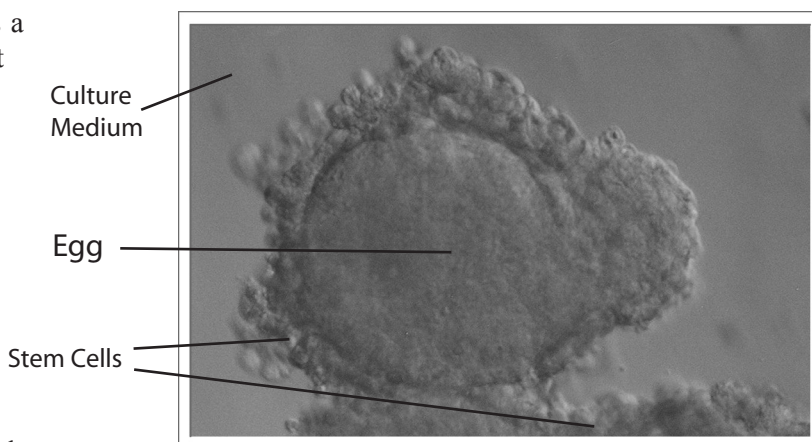
Stem cell therapy could revolutionize medical treatments for "incurable" diseases such as heart failure, spinal cord injury, diabetes, Alzheimer's and Parkinson's disease. Confusion surrounding "human embryonic stem cells" and "human therapeutic cloning" research has led to strong negative public debate. This has strengthened the will of Congress and President Bush to not use federal dollars to fund research on "activated" human eggs.

The goal of the Foundation is to take advantage of scientific progress in activating unfertilized eggs to give rise to pluripotent stem cells with the same therapeutic potential as embryonic stem cells derived from "left over" human embryos. With more research it will be possible to derive therapeutic stem cells from unfertilized eggs, thus avoiding the ethical controversies associated with deriving stem cells from human embryos.

It's taken more than 30 years of research experience, 13 of the field's most prominent scientists, and boards of 15 dedicated professionals to create this unique foundation.

The Foundation's Board of Trustees and Ethics Advisory Board have no financial stake in the research. The progress of the science, and the health of those afflicted, are their primary concerns.

The Foundation conducts research in its own laboratories and in collaboration with others. The human egg donor program is unique and is conducted according to guidelines crafted by two ethics advisory boards: the first chaired by Dr. Ronald Green, Dartmouth College, and the present chaired by Dr. Arthur Applbaum, Harvard's Kennedy School of Government. The research on donated human eggs cannot be funded by federal grants-in-aid because of the U.S. moratorium on funding such research. Each egg donor experiment costs about \$60,000.



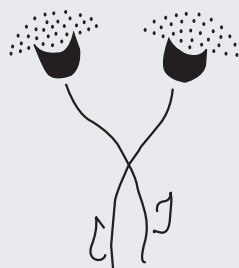
Mouse Egg from mouse embryonic stem cells. This egg developed in culture from mouse embryonic stem cells.

Mouse eggs develop from embryonic stem cells in the BSCRF laboratory

Bedford's scientists were successful in their first attempt to repeat the ground-breaking work of Dr. Hans Scholer, the Keynote Speaker at Bedford's Activated Egg Symposium in Nov, 2003. He described the development of mouse eggs from stem cells in his University of Pennsylvania laboratory. Although the eggs were not entirely normal, the possibility of increasing the supply of eggs for research by developing them from laboratory stem cells prompted Bedford's scientists to attempt to reproduce the work.

Dr. Lisa Fitzgerald, an expert in mouse bone marrow stem cells, was recruited in January, 2004, to head up the effort. Within ten weeks, immature eggs formed in Fitzgerald's stem cell cultures.

"It was truly amazing to discover the huge egg cells nestled among the clusters of tiny stem cells floating in the petri dish," said Dr. Ann Kiessling, Bedford's director. "This achievement means we can immediately begin to test the ability of these eggs to replace the eggs donated by women to create more stem cells for therapeutic applications. If so, this provides a new approach to developing more efficient methods of deriving therapeutic stem cells" said Kiessling, "We're very excited about our research results, and we're moving forward as fast as our resources allow."



Help Change the Pace of Progress!

The Bedford Stem Cell Research Foundation has lower operating costs than large teaching and medical institutions. For this reason, more research results from each donation received. Please send donations and inquiries to the address below or donate online at www.bedfordresearch.org.

Bedford Stem Cell Research Foundation
PO Box 1028
Bedford, MA 01730

Research Office: (617) 623-5670
Fax: (617) 623-9447
Email: info@bedfordresearch.org

BSCRF RESEARCH GOALS:

The goal of our research is to create stem cells specifically for each patient in need. Pluripotent stem cells derived from unfertilized eggs have more therapeutic value than stem cells from discarded embryos.

BRF scientists are also developing methods to change stem cells into the specific cells needed to treat the patient's disease.

HOW YOU CAN HELP:

Raise funds to support the Foundation's urgently needed research. Contact us for promotional materials and more information about our current initiatives. 617-623-5670
www.bedfordresearch.org

Help prevent the US Congress from outlawing our research with unfertilized, activated eggs.

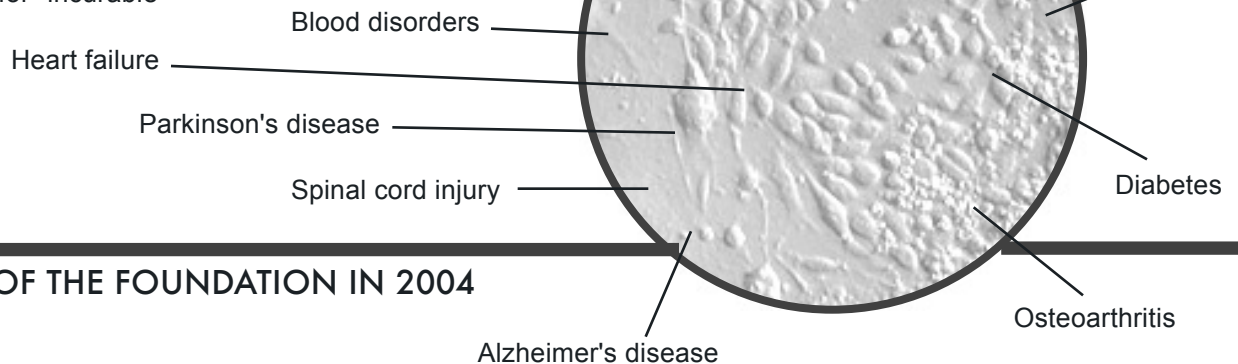
Conducting urgently needed stem cell research

*Bedford Stem Cell Research Foundation
53 Concord Road
Bedford, MA 01730*

BEDFORD STEM CELL RESEARCH FOUNDATION

Changing the Pace of Progress

Stem cell therapy could transform medical treatments for "incurable" diseases such as:



AN OVERVIEW OF THE FOUNDATION IN 2004