

OPEN A *new* DOOR



at RESEARCH
HADASSAH



RESEARCH at HADASSAH

WITH MORE THAN 90 YEARS OF EXPERIENCE behind us, the Hadassah Medical Organization has earned the reputation as world experts in researching and treating the widest range of medical issues. We uncover the mysteries of heart disease, and make women's health a priority. We tackle the toughest and most persistent riddles of cancer, multiple sclerosis, and Parkinson's disease. By harnessing the promise of stem cells, we hope to fight genetic disorders and many of the most terrible diseases afflicting humankind. We restore good health to sick infants and young children... the list goes on.



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WE RESPOND to the challenges of human suffering with imagination, courage, and action. We staff our laboratories and hospitals with the finest scientific and medical minds in the world. Working tirelessly together, we cure disease, heal injury, and ease the pain and sorrow of our global family.

We are distinguished by our ability to bring scientific knowledge directly from the lab bench to the bedside—and we are guided by our mission of saving lives, preventing serious illness, and protecting the health and well-being of future generations.

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HEART RESEARCH

The human heart is an amazing machine. Yet what we still don't understand about how the heart works and how best to treat it when it fails, makes heart disease one of humankind's most terrible killers. Our cardiac research teams are:

Discovering new ways of preventing heart attacks.

Creating an experimental delivery system for placing genes in the heart that will help keep overburdened cardiac muscle cells from collapsing.

Examining the relationship between exercise and cardiac health.

Preventing coronary artery disease, a leading cause of death in women.



PEDIATRIC RESEARCH

Babies are the shining future: tomorrow's parents, doctors, and peacemakers. They are tomorrow's Israel—and tomorrow's hope. But when these smallest patients are sick, hope can turn to anguish. Unless a child's illness receives early detection and treatment, his or her entire life can be overwhelmed by difficulty and pain. Our pediatric researchers are:

Unraveling the mysteries of metabolic disorders.

Refining surgical techniques for childhood cataracts.

Leading the way in fighting disabling lung diseases in children, including asthma.

Fighting cystic fibrosis after discovering the gene responsible for it.

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DIABETES RESEARCH

Two types of diabetes affect blood sugar regulation. Type I occurs abruptly in thin, active children; type II occurs gradually around middle age and is strongly linked to obesity and family history. Together they affect millions of people every year. Hadassah is recognized around the world for making inroads in preventing and treating this disease. Hadassah diabetes researchers are:

Vaccinating against juvenile diabetes—a vital step towards a cure.

Preventing diabetes with the development and testing of a new medication.

Improving the quality of life for diabetics by proving the potential benefits of inhaled, rather than injected, daily insulin doses.

Creating the human embryonic stem cell therapy of the future.



CANCER RESEARCH

Hadassah is using bold new strategies to make important headway in the fight against cancer. Using innovative and pioneering methods, our researchers are offering hope to the terminally ill, and hastening the day when cancer will finally be cured. We are developing new protocols to fight this dreaded disease and are:

Discovering better, less invasive treatments.

Creating new protocols for bone marrow transplantation.

Revolutionizing the treatment of melanoma, the most dreaded skin cancer, by creating an individualized vaccine to fight its recurrence.

Only Hadassah individualizes each vaccine using the patient's own tumor cells.

Improving the odds on pancreatic cancer by taking a page from our own unique success in using personalized vaccines to treat melanoma.



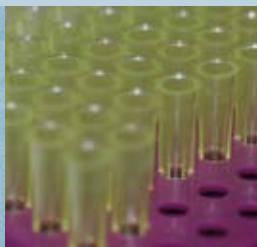
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STEM CELL RESEARCH

Human trials based on the use of human embryonic stem cells offer the most promising of all research. Scientists at the Hadassah Research Center for Human Embryonic Stem Cells are getting closer to surmounting the long list of obstacles that stand between basic laboratory research and the first experimental clinical treatments. Our researchers are leading this medical revolution by:

Partially reversing Parkinson's disease symptoms in laboratory animals by transplanting cells developed from stem cells.

Targeting multiple sclerosis (MS) by seeking ways to produce and import specialized stem cells that can return normal function to nerves.



OPEN A NEW DOOR to research ...and to saving lives. Mapping the human genome. Exploring the potential of stem cells. Discovering treatments, even cures, for cancer. Transforming diseases that were once a death sentence into treatable, survivable chronic conditions. Developing treatments to improve quality of life for patients and their families. These are just some of the challenges and opportunities we have embraced at the Hadassah Medical Organization.

When we think about research, we often think about the end result—a new therapy for a life-threatening disease, a new procedure or a piece of equipment that can dramatically improve medical outcomes. What we don't think about is the trial and error that scientists go through on their way to producing life-changing results.

Very often, the breakthrough moment comes after many attempts to solve a problem. When you support research at Hadassah, you help ensure that our doctors have the opportunities to test, experiment, and draw conclusions that will lead to the outstanding science and discoveries for which Hadassah has become known.

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Your financial support of research at Hadassah allows us to provide state-of-the-art lab equipment, continue ongoing training of scientific support teams, and lead the way to breakthroughs in treatments and cures. Most importantly, you open a new door to putting Hadassah's scientific excellence into practical service.

**PLEASE GIVE AS GENEROUSLY
AS YOU CAN.**

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