TECHNION
CANADA



Ten Technion Innovations Changing How We Heal

Across Technion labs and the companies its alumni lead, researchers are changing how disease is caught and treated. Their work is moving medicine toward care that is more precise and built around each patient. Here are ten of the newest breakthroughs making that shift.

Seeing Heart Failure Coming

Led by Prof. Ehud Behar

DeepHHF is an AI model that flags patients at high risk of heart failure years before the disease appears. That head start gives doctors time to intervene early and spare patients serious harm.

Robotic Precision in Eye Surgery

ForSight Robotics, cofounded by Prof. Emeritus Moshe Shoham and alumnus Dr. Joseph Nathan

The ORYOM platform is built for cataract surgery and other eye procedures. It gives surgeons finer control and better ergonomics while widening access to care, with first-in-human trials underway in 2026.



A Weight-Loss Pill With No Drugs

Epitomee Medical, cofounded by alumnus Shimon Eckhouse

Epitomee® is an FDA-cleared medical device in capsule form. It expands in the stomach so patients feel full sooner and eat less, then passes naturally out of the body within hours.

Prenatal Care From Home

Nuvo, with Technion alumnus Amit Reches as CTO

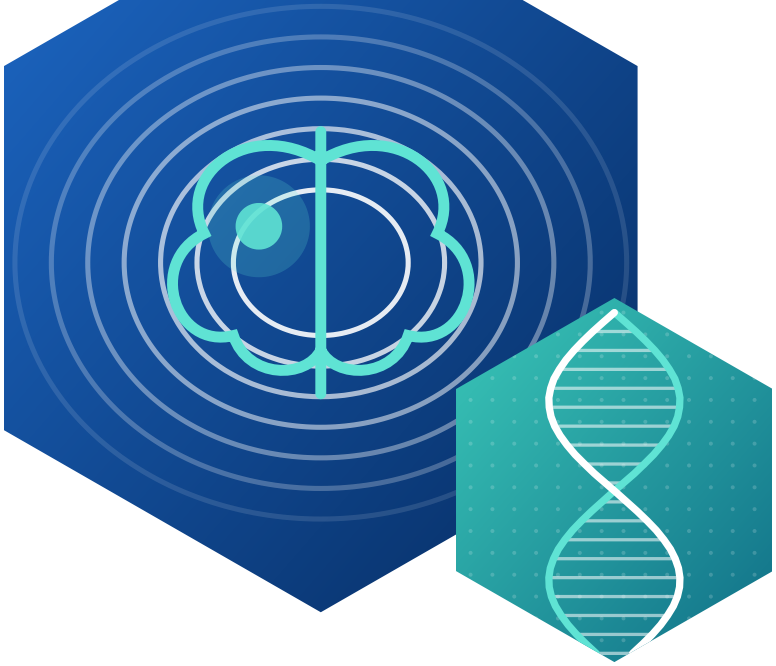
This FDA-approved system lets expectant mothers monitor their own health and their baby's from anywhere, sending real-time data to their care team. Fewer clinic visits mean better reach into remote and underserved communities.

Training the Brain to Ease PTSD

GrayMatters Health, cofounded by alumni Oded Kraft and Shai Attia

Prism detects heightened activity in the brain region that processes emotion. Patients use that feedback to recognize their stressors and practise coping skills.

FROM THE LAB TO THE PATIENT



Tremor Relief Without an Incision

Insightec, founded by alumnus Kobi Vortman

The Exablate Neuro platform uses MRI-guided focused ultrasound to treat a precise point in the brain. People with Parkinson's disease get relief from tremor with no surgical cut.

Finding Colon Cancer Before It Forms

MAGENTIQ EYE, led by alumnus Dror Zur

MAGENTIQ-COLO brings AI into the colonoscopy room. It raises detection of precancerous growths by 7% and cuts missed growths by 17%, so doctors can act earlier.

Genetic Counselling at Scale

Igentify, led by alumnus Dr. Doron M. Behar

The Digital Genetic Assistant is an AI platform that automates genetic counselling and testing. Clinicians, labs, and patients get answers faster as demand for genetic care grows.

Faster, Sharper Breast Imaging

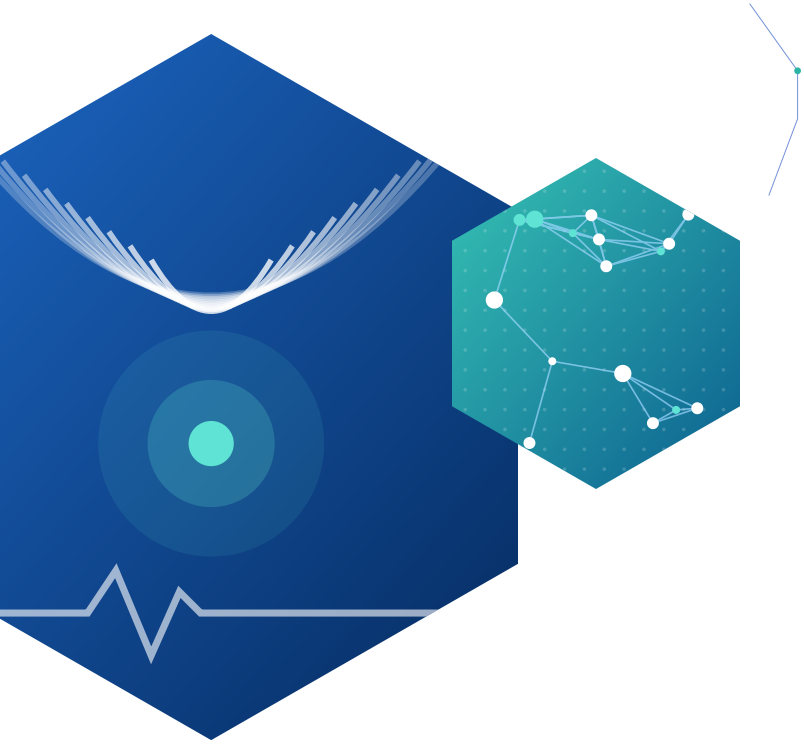
Asst. Prof. Eddy Solomon, with Weill Cornell Medicine and NYU's Center for Advanced Imaging Innovation and Research

ELITE is an AI-powered MRI method that pairs advanced mathematical modelling with international expertise. It speeds up breast cancer scans and sharpens them, giving clinicians more diagnostic information in less time.

A Living Alternative to Daily Insulin

Prof. Shady Farah, with MIT, Harvard, and UMass

This implant senses blood glucose, then produces and releases insulin on its own. A protective crystalline shield lets it work as an artificial pancreas, which could free people with diabetes from daily injections.



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