Canan Dagdeviren, Ph.D.

Assistant Professor and Director of Conformable Decoders Group

MIT Media Lab

Canan Dagdeviren has created flexible devices that conform to the tissues of the body, while converting energy from organ movements into electricity. This technology can extend the battery life of implanted devices such as pacemakers or defibrillators, sparing patients the risks of repeated surgeries.

Dr. Dagdeviren received her master's degree in materials engineering at Sabanci University in Istanbul and her doctorate at the University of Illinois, Urbana-Champaign. She was a postdoctoral associate in the Langer Lab at MIT, and a Junior Fellow of the Harvard Society of Fellows.

As director of her own group at MIT, she is now developing sensory devices, powered by the body itself, that can decode and respond to the body's signals. Her projects include multifunctional, minimally invasive brain injectrodes to deliver drugs on demand and electrically modulate neural activity to treat neurological disorders such as Parkinson's disease. Her work has been reported around the world, on CBS News and the BBC, and in publications from *Smithsonian* to *Popular Mechanics*.

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