

# MIT David H. Koch Institute for Integrative Cancer Research



## Building Information

Location	Cambridge, MA	Start/Finish	March 2008 - Winter 2010/2011
Size	360,000 GSF	Delivery	Fast-Track
Levels	8 levels (1 below grade)		
Cost	\$190 million (construction)		

Owner	Massachusetts Institute of Technology
Architect	EllenZweig
CM	William A. Berry & Son, Inc.
Structural	Lemessurier Consultants
HVAC/Electrical	BR+A Consulting Engineers, LLC
Lighting Consultant	LAM Partners, Inc.
Plumbing/FP/Code	R.W. Sullivan Engineering
Civil	Nitsch Engineering, Inc.
Landscape Architect	Reed Hildebrand Associates, Inc.
LEED/Sustainability	The Green Engineer, LLP
Telecommunications	Communications Design Group, Inc.

### Architecture

The design is in harmony with the existing facilities in the life sciences sector of MIT's campus. The architect, Ellen Zweig, used the term 'selective transparency' to describe what is seen from the outside. Laboratory, conference, multi-use spaces, a cafeteria, and offices make up the inside.

### Electrical

MIT Utilities provides an electrical service through their existing 15kV campus loop into two double-ended unit substations, rated at 2000kVA and 1500kVA. A 2000kW/2500kVA generator is tied to the system via a 1600A ATS to feed both emergency and standby power systems. Fluorescent lighting at 277V was used extensively to reduce lighting loads

### Mechanical

Ten 50,000 CFM air handling units provide 100% outdoor air throughout the building. Where spaces are non-critical, such as offices and the cafeteria, a chilled-beam system was implemented. For back-up, a 200 ton chiller supplies the vivariums

### Structural

The foundation is a combination of concrete columns, walls, and slab-on-grade. The composite deck floor system uses 4.5" of normal weight concrete in tandem with 3" decking made of 18 gauge steel. Structural steel makes up the lateral frame and superstructure.