



Perspective Lecture

Optical Tools for Analyzing and Repairing Biological Systems

Prof. Edward Boyden
*Co-Director, MIT Center for
Neurobiological Engineering*

Thursday, March 16th, 2023, 14:30
Aula Magna, Palazzo Bo
Via VIII Febbraio, 2 - Padua

14:30 Registration of participants

15:00 Welcome and introduction

Prof.ssa Stefania Bruschi
DII Director

Prof. Fabrizio Dughiero
*Vice Rector of Innovation
and Business Relations*

15:15 Perspective Lecture

Optical Tools for Analyzing and Repairing Biological Systems

Prof. Ed Boyden

16:15 Discussion

16:45 Coffee

Participation is free, subject to
prior on-line registration at
<https://www.dii.unipd.it>
by **March 15th, 2023**

*This initiative is part of a series of
Perspective Lectures organized by the
Department of Industrial Engineering with
the aim to foster the development and
exchange of knowledge in the academic,
research and entrepreneurial fields.*

Prof. Boyden will discuss the technologies
required to observe, control and
understand complex biological systems,
such as the brain, with great precision,
across extended spatial and temporal
scales. His research has led to the
discovery of new molecular principles that
have led to the development of new
technologies such as Expansion
Microscopy and Optogenetic tools.



Ed Boyden, Ph.D.

*Y. Eva Tan Professor in
Neurotechnology at MIT
Howard Hughes
Medical Institute*

*McGovern Institute
Professor, Departments
of Brain and Cognitive
Sciences, Media Arts*

and Sciences, and Biological Engineering

*Co-Director, Center for Neurobiological
Engineering, MIT*

*Co-Director, K. Lisa Yang Center for
Bionics, MIT*

*Member, MIT Center for Environmental
Health Sciences, Computational &
Systems Biology Initiative,
and Koch Institute*

*Leader, Synthetic Neurobiology Group
Massachusetts Institute of Technology.*

Organizing Committee:

Prof. Elisa Cimetta, Prof. Stefania Bruschi
and Prof. Patrizia Garengo

in partnership with



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PEDIATRICA**