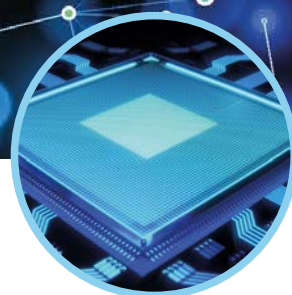


# Crossing Boundaries from Life Science to Physics and Engineering



**Friday 7<sup>th</sup> February 2020 - 9:00 to 13:30**  
**Politecnico di Milano - AUDITORIUM**  
**Via Giovanni Pascoli 53, Milano**

Merging diverse areas of expertise stimulates innovation from **fundamental science** discovery to **translational application**. As scientific community, we are now called to integrate **knowledge, tools, and ways of thinking** from **life sciences, physical sciences** and **engineering disciplines**, to form a solid framework to tackle current scientific and societal challenges.

The **Physics Department of Politecnico di Milano** is pleased to welcome as keynote speaker **Prof. Guido Kroemer**, cell biologist who has made contributions to the understanding of the mechanism of autophagy.

This event is dedicated to the memory of Prof. Luigi Maiuri, suddenly disappeared on February 2019, to honor his memory and to cherish the beauty of transdisciplinary science, as he always strived to pursue.



*“Luigi was rather small in stature and thin in complexion, nervous in his gesticulation and baroque in his expression, and he was a “Grand Homme”, a Great Spirit, a scientist and paediatrician with exquisite manners, irradiating an exceptional kindness, complete dedication to translational research, and an incisive intellectual curiosity.”*

M. Piacentini and G. Kroemer, *Cell Death & Disease*, 10, (2019).



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# Programme

<b>9:00 - 9:10</b>	<b>Opening Remarks</b>	<b>Sandro De Silvestri</b> Politecnico di Milano Physics Dept.
<b>I Session</b>	<i>Chaired by Mauro Piacentini - Tor Vergata University, Rome</i>	
<b>9:10 - 9:55</b>	<b>Therapeutic autophagy induction</b>	<b>Guido Kroemer</b> - Keynote Speaker Université Paris Descartes
<b>9:55 - 10:15</b>	<b>Three-dimensional imaging of entire murine intestines with Light Sheet Microscopy</b>	<b>Gianluca Valentini</b> Politecnico di Milano Physics Dept.
<b>10.15-10.30</b>	<b>Coffee Break</b>	
<b>II Session</b>	<i>Chaired by Gianluca Valentini - Politecnico di Milano</i>	
<b>10:30 - 10:50</b>	<b>Data-Driven Genomic Computing: Making Sense of the Signals from the Genome</b>	<b>Stefano Ceri</b> Politecnico di Milano DEIB
<b>10:50 - 11:10</b>	<b>Multi-organ-on-a-chip devices: innovative in vitro strategies for clinical and biological challenges</b>	<b>Carmen Giordano</b> Politecnico di Milano Chemistry Dept.
<b>11:10 - 11:30</b>	<b>New frontier tools for cell modeling in drug discovery and biological research</b>	<b>Manuela Raimondi</b> Politecnico di Milano Chemistry Dept.
<b>11:30 - 11:50</b>	<b>Watching primary photoinduced processes in biomolecules with ultrashort light flashes</b>	<b>Giulio Cerullo</b> Politecnico di Milano Physics Dept.
<b>III Session</b>	<i>In Memory of Luigi Maiuri - Chaired by Valeria Raia - Univeristà di Napoli Federico II</i>	
<b>11:50 - 12:30</b>	<b>Generoso Andria, Raffaele Badolato, Gianni Bona, Giorgio Del Mare, Gianna Puppo Fornaro, Stefano Guido, Gianluigi Marseglia, Armido Rubino, Valeria Vilella</b>	
<b>12:30 - 14:00</b>	<b>Refreshment</b>	