

Torvergata Oncoscience Research

Centre of Excellence "TOR" PhD degree "Biochemistry & Molecular Biology

Tor Vergata University of Rome Tor Vergata - Faculty of Medicine

Rector's Award Lecture

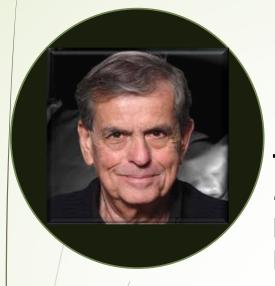
in Cancer Biology

Introduced by the Rector,

Giuseppe Novelli Ofer Sachs

Israel Ambassador

& by Gerry Melino



The Ubiquitin Proteolytic System
- From Basic Mechanisms thru
Human Diseases and on to
Drug Development

Aaron Ciechanover

MD, PhD, Nobel Prize 2004 (Chemistry)

Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel

> 15:30 29 May 2018

Aula Fleming Faculty of Medicine

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Between the 50s and 80s, protein degradation was nealected area. While it was recognized that proteins turn over, the high specificity of the process - where distinct proteins are degraded when they are damaged or completed their function, was not appreciated. The discovery of the lysosome that degrades proteins in bulk did not solve the enigma that was solved only with the discovery of the ubiquitin system. Degradation of cellular proteins via this system is highly regulated and plays major roles in all cellular With multitude processes. substrates targeted, aberrations in the pathway have been implicated in the pathogenesis of many diseases, malignancies and neurodegenerative disorders among them, system has become a major platform for drug development.