Medication non-adherence (non-compliance) represents a major barrier to effective clinical care. In developed nations, only 50% of patients take their medications as prescribed, manifesting in more than $100 billion in avoidable hospitalizations every year in the United States alone and the numbers are far worse in the developing world. In his seminar, Prof. Traverso will present a series of novel technologies being developed with the goal to enhance and facilitate medication administration. Specifically, Prof. Traverso will discuss the development of new technologies for the delivery of a broad set of drugs including macromolecules through the oral route.