



## FUNDAMENTALS OF ENZYME KINETICS

**CFU:** 2 (10 hours of theoretical and practical lectures)

**Teachers:** Prof. Francesco Malatesta & Dr. Serena Rinaldo

**Location:** lectures will be held in "Aula A" of the Department of Biochemical Sciences "A. Rossi Fanelli", Sapienza University of Rome (see map, building n. CU010, ground floor)

**Calendar:**

Tuesday November 21, 4-6 pm  
Thursday November 23, 4-6 pm  
Tuesday November 28, 4-6 pm  
Thursday November 30, 4-6 pm  
Tuesday December 5, 4-6 pm

**Application guidelines:**

The course is addressed to 1<sup>st</sup> & 2<sup>nd</sup> year students of the BeMM PhD School and is open to anybody who is interested.

Applications should be sent by e-mail to [francesco.malatesta@uniroma1.it](mailto:francesco.malatesta@uniroma1.it), not later than November 19<sup>th</sup> 2017. Please, indicate "Enzyme Kinetics Course" as the e-mail object, and your Surname and Name, as well as the title of your Ph.D. course, in the text body

**Aim of the Course:**

The goal of this short Course is to introduce cell biology, biotechnology, molecular biology and biochemistry Students to the kinetics of enzyme-catalyzed reactions, and to cover in detail the assumptions, derivation, and meaning of the Michaelis–Menten equation within a biological context. Special emphasis will also be given on the practical aspects of enzymology and its biological relevance as detailed by specific examples.

**Detailed program:**

Basic principles of chemical kinetics ❖ Introduction to enzyme kinetics ❖ Practical aspects of enzyme kinetics ❖ Derivation of steady-state rate equations ❖ Reversible inhibition ❖ Multisubstrate enzymes ❖ Frontiers in steady-state enzyme kinetics ❖ From theory to practice: the cases of phosphodiesterases and cyclases controlling biofilm formation

Logo Credits: Dr Giorgio Giardina