

Beyond the dichotomy in vivo - in vitro: in silico

Garcia, Pio (2006) Beyond the dichotomy in vivo - in vitro: in silico. In *Proceedings (Models and Simulations, London, 2006)*.

Full text available as:

[PDF](#) - Requires a viewer, such as [Adobe Acrobat Reader](#) or other PDF viewer.

Abstract

From the beginnings of the biochemistry as discipline, the dichotomy between in vivo- in vitro conditions has been in the center of their methodological discussions. With the growing influence of computer simulations - sometimes called "in silico" conditions-, a new methodological problem is added to biochemistry. However, "simulation" could be seen as a core concept that is in fact used in the in vivo - in vitro dichotomy. In this sense, in silico dimension could be considered as a natural extension of the classical dichotomy. From the way in which simulation is used on in vivo-in vitro dichotomy, we also suggest that the general idea of simulation proposed by Hartmann have to be redefined. The intuitive idea of simulation resting on " imitation" relationship, as a " process that imitates another process" (Hartmann 1996), has to be complemented by others methodological concepts like " isolation" or " disruption" .

Keywords: Simulation, Biochemistry

Subjects: [General Issues: Models and Idealization](#)

Conferences and Volumes: [\(Models and Simulations, London, 2006\)](#)

ID Code: 2777

Deposited By: [Garcia, Pio](#)

Deposited On: 08 June 2006