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The Mathematical Theory of Integrative Physiology: Application to hippocampus for drug discovery

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Résumé en anglais	The modeling and the simulation of biological structure needs a united formalism for all parts of a living system. For this purpose the MTIP (Mathematical Theory of Integrative Physiology) has been developed, by Pr Gilbert Chauvet, to offer an integrated description of a living system. In this paper we will present mainly the passage from a mathematical view of a living subsystem (CA1 circuit of the hippocampus) to its computational implementation and the development of the simulator that goes with in the aim to use and validate the MTIP.
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[1] http://okina.univ-angers.fr/publications?f[author]=1895
[2] http://okina.univ-angers.fr/pierre.chauvet/publications
[3] http://okina.univ-angers.fr/publications?f[author]=1898
[4] http://okina.univ-angers.fr/publications?f[keyword]=6488

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