

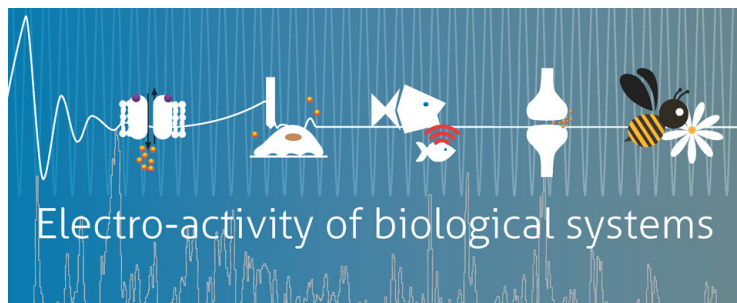
ELECTRO-ACTIVITY OF BIOLOGICAL SYSTEMS

Introduction

In every living organism or cell, a large number of electric and ionic phenomena occur simultaneously. These are often complex processes, where several elementary chemical reactions can lead to a global response of entire systems, which can then affect their interactions with their environment. The interplay between the different processes is, in essence, multiscale, while their investigation is usually sequentially performed at each scale by different research teams. This EABS workshop aimed at gathering different groups dealing with the electro-activity of biological systems in order to benefit from their methods and results. In turn, it provided a multiscale point of view of the problems associated with the generation, reception and propagation of electric fields, electrons and ions within biological systems.

This international and multidisciplinary workshop , EABS_2015, brought together scientists and students (master and PhD) not only to learn how living systems integrate, take advantage and combine electric and ionic activities to their issues, but also to exchange recent results and to stimulate further interactions.

Each day, four sessions across scales (submicron systems, cells, multicellular systems, animals) were organized with plenary lectures of leading scientists in the different fields, selected talks of young researchers and a poster session.



2015 November 18-19th

Paris (Orsay), France

<http://eabs2015.sciencesconf.org/>