

9th International THz-Bio Workshop



Contribution ID: 48

Type: not specified

Terahertz perturbation of the nanoscale biomembrane landscape

Interfacial water is the primary transducer of stress induced in biological membranes by electromagnetic fields. Picosecond resolution molecular simulations of lipid bilayers in moderate to intense electric fields help to define the physical boundaries of potentially significant terahertz radiation-induced modifications and modulations of water-lipid and water-protein configurations in cell membrane structures and functions.

type of presentation

invited

Primary author: VERNIER, P. Thomas (Center for Bioelectrics)

Presenter: VERNIER, P. Thomas (Center for Bioelectrics)

Session Classification: Session 4.1 Mechanisms of Interaction I

Track Classification: THZ BIO Abstracts