Martedì 29 maggio 2018 alle ore 11:00 presso l’aula MIOLATI

la Dr.ssa VICTORIA N. SYRYAMINA

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terrà il seminario dal titolo:

**PEPTIDES TOPOLOGY AND INTERACTION WITH BIOMEMBRANES BY ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY**

Several natural and synthetic peptides possess antitumor and/or antimicrobial activity. Among them, membrane-active peptides are able to delay the onset of antimicrobial resistance. This feature makes them promising as novel drugs. It is now acknowledged that channel formation is often required for cell membrane leakage, although details on channel structure and formation are not yet completely known. Recent studies suggest that structural changes in the membrane occur before channel formation. The interaction between peptides at this stage is weak, while peptide influence on lipid arrangement in membrane might be relevant. In this talk the advantage of Electron Paramagnetic Resonance (EPR) spectroscopy for structural studies on both short- and long-term scales (up to 8 nm and up to 30 nm, respectively) will be discussed. Our results on the use of EPR spectroscopy - in combination with site-directing spin labeling - for elucidating the peptide-peptide and peptide-lipid interactions will also be presented.

La presenza della S. V. sarà molto gradita

Marta De Zotti

Il Direttore del Dipartimento
Michele Maggini