



CoffeeTalk@ISOF

Property tuning of oligo- and polythiophenes and their organization into nano/microsized supramolecular structures for application in biology and organic electronics

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Owing to their multiple functional properties, chemical robustness and versatility, thiophene-based materials play a preminent role in nanoscience and nanotechnology. Here, I show the synthesis and the characterization of novel thiophene-based oligomers and polymers for the preparation via self-assembly of polythiophene nanoparticles (NPs) and oligothiophene microfibers. I show that NPs may act as phototransducers in living cells (Hek-293) and organisms (*Hydra vulgaris*). I also show that a class of structurally comparable oligothiophene microfibers with functional properties varying over a broad range can be prepared by using an appropriately designed building block favoring specific non bonding interactions hence promoting the formation of the targeted supramolecular structures.

Tuesday 17 April 2018, 14:30
ISOF 12 – Meeting Room (1st floor)
CNR Research Area
Via Gobetti 101, Bologna



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