

ItPS
Seminars

21st June
3pm CEST
2024



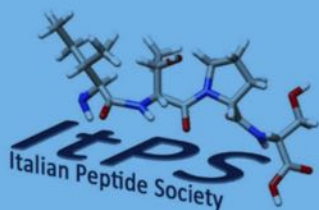
BEATRIU ESCUDER
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INAM Universitat Jaume I

**MULTICOMPONENT
MATERIALS BASED ON
SHORT PEPTIDES**



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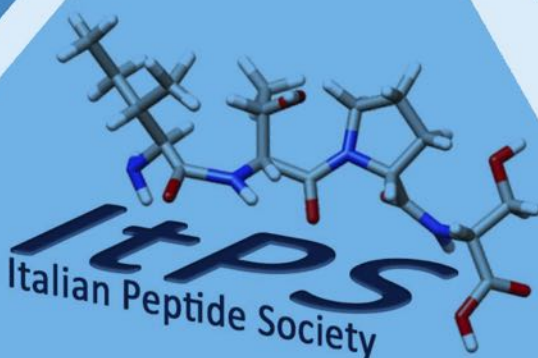
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MULTICOMPONENT MATERIALS BASED ON SHORT PEPTIDES

Short peptides have been revealed as fascinating materials that, despite their low molecular weight, are able to mimic structural and functional features of their bigger counterparts, peptides and proteins. In particular, very simple self-assembling peptides have been shown to produce a diversity of nanostructures as a result of pathway-dependent aggregation mechanisms. On the other hand, amino acid side chains contain diverse functional groups which can play an important role not only for structural but also for functional abilities of those materials. Here we will present the rich self-assembly behavior of short peptides as single component aggregates and hydrogels as well as a part of functional multicomponent materials.



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