

19. A nanofiber comprising the peptide amphiphiles of one of claims 1-18.
20. An aqueous solution comprising the nanofibers of claim 19.
21. A supramolecular structure comprising a peptide amphiphile of one of claims 1-20 and a lipid molecule.
22. The supramolecular structure of claim 21, wherein the lipid molecule is a fatty acid.
23. The supramolecular structure of claim 22, wherein the fatty acid comprises 6-24 carbons.
24. The supramolecular structure of claim 23, wherein the fatty acid and the non-peptide hydrophobic tail have equal number of carbons.
25. The supramolecular structure of claim 21, wherein interaction between the lipid and the peptide amphiphile is driven by lone pair- π interactions between the fatty acid and the pentafluorophenylalanine and anion- π interactions.
26. The supramolecular structure of one of claims 21 to 25 for use in therapy.
27. Use of a supramolecular structure of one of claims 21 to 25 in the preparation of a medicament for treating a microbial infection, wherein the supramolecular structure is to be administered to a subject.
28. The use of claim 27, wherein the microbial infection is a bacterial infection.
29. The use of claim 28, wherein the bacteria is antibiotic resistant.
30. The use of one of claims 27-29 wherein the supramolecular structure is to be administered with an antibiotic agent.

31. Use of a supramolecular structure of one of claims 21-25 in the preparation of a medicament for treating an infection.