

Electronic Supplementary Information
for

Synthesis, Structure, Electrochemical, DNA Interaction and Antimicrobial Studies of Fluorinated *Trans*-Dicationic Pyridinium Porphyrins

Jagadeesan Ramesh, Subramaniam Sujatha* and Chellaiah Arunkumar*

Bioinorganic Materials Research Laboratory, Department of Chemistry, National Institute of Technology Calicut, Kozhikode, Kerala, India - 673 601.

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Figure S2. Fluorescence emission spectra of porphyrins, (a) **4c**, (b) **5a**, (c) **5c** and (d) **6c** with increasing concentration of CT DNA. [porphyrin] = 3 μ M, [DNA] = 0-1 μ M. λ_{ex} = 480 nm.

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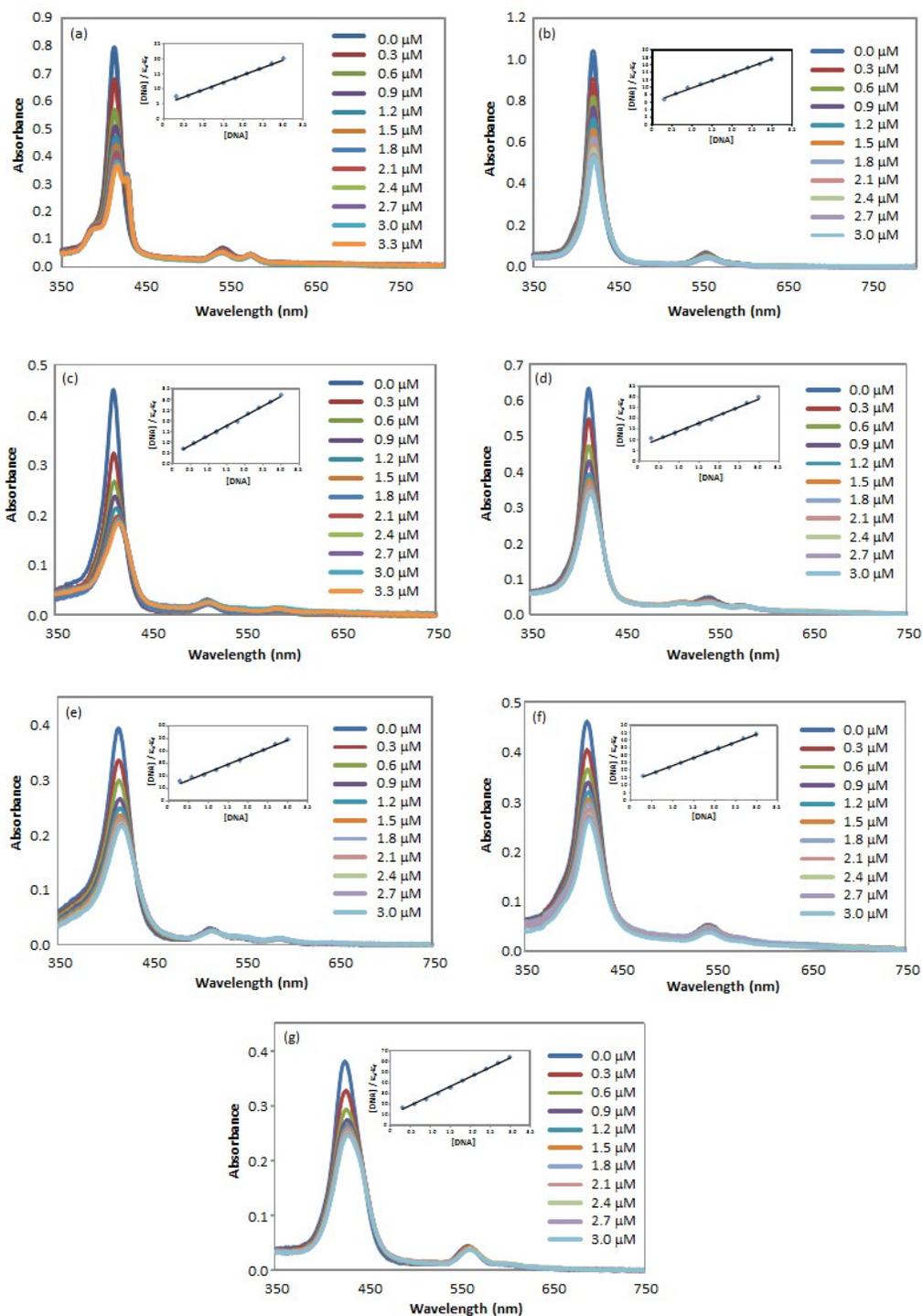


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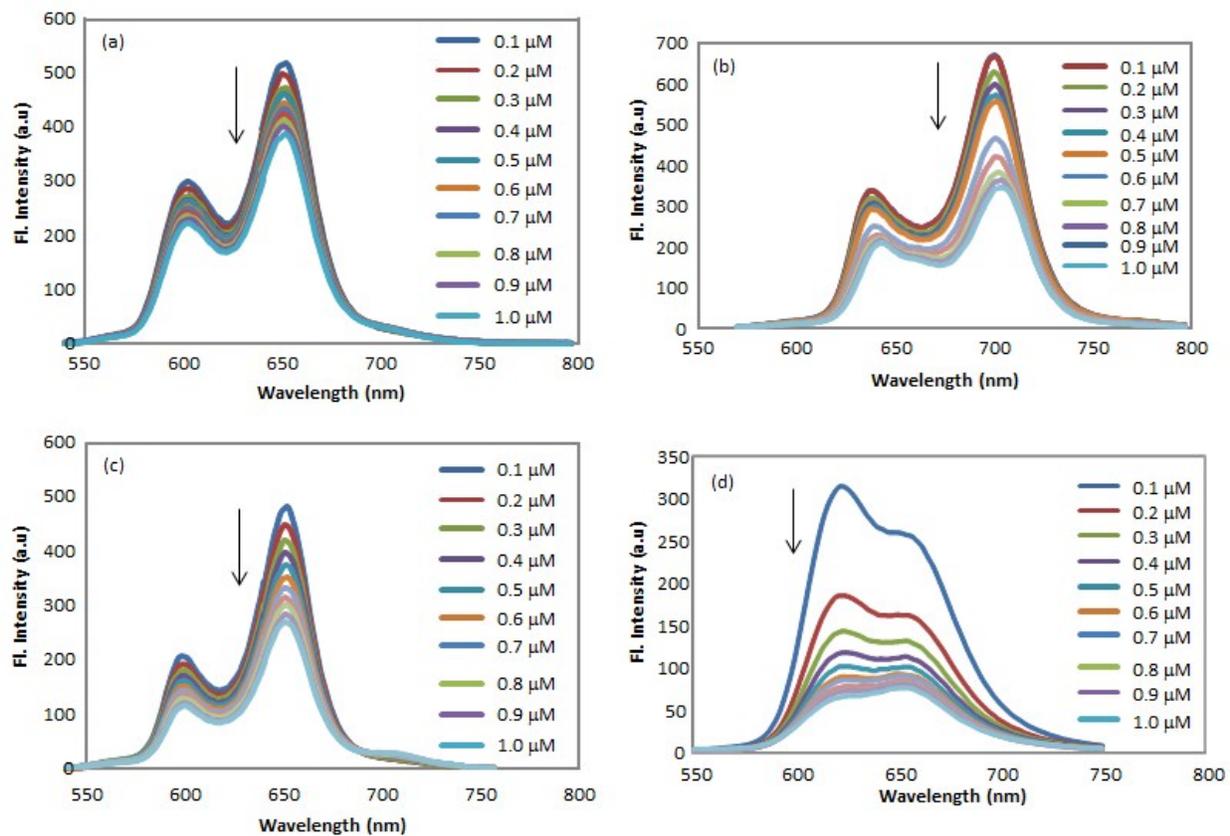


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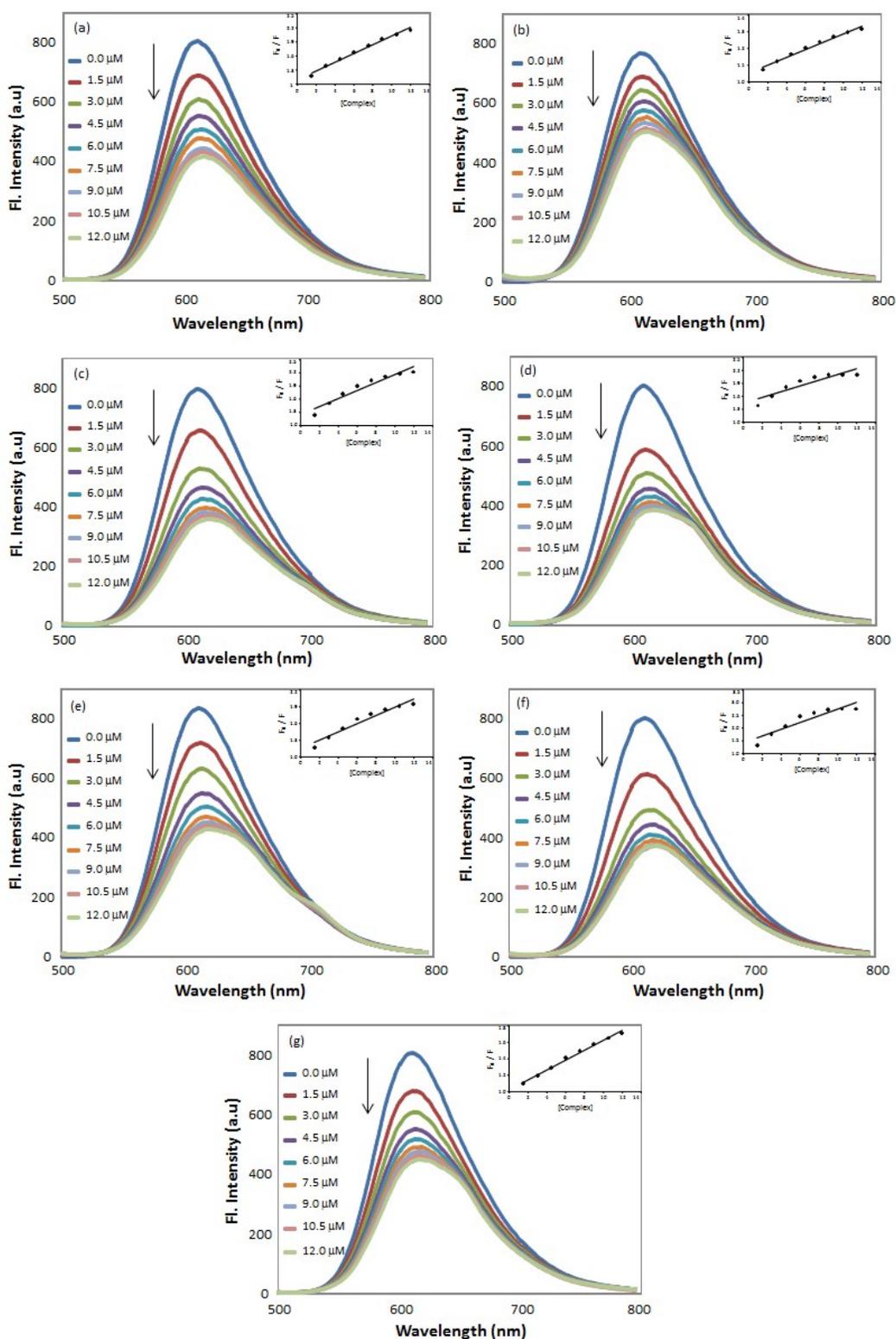


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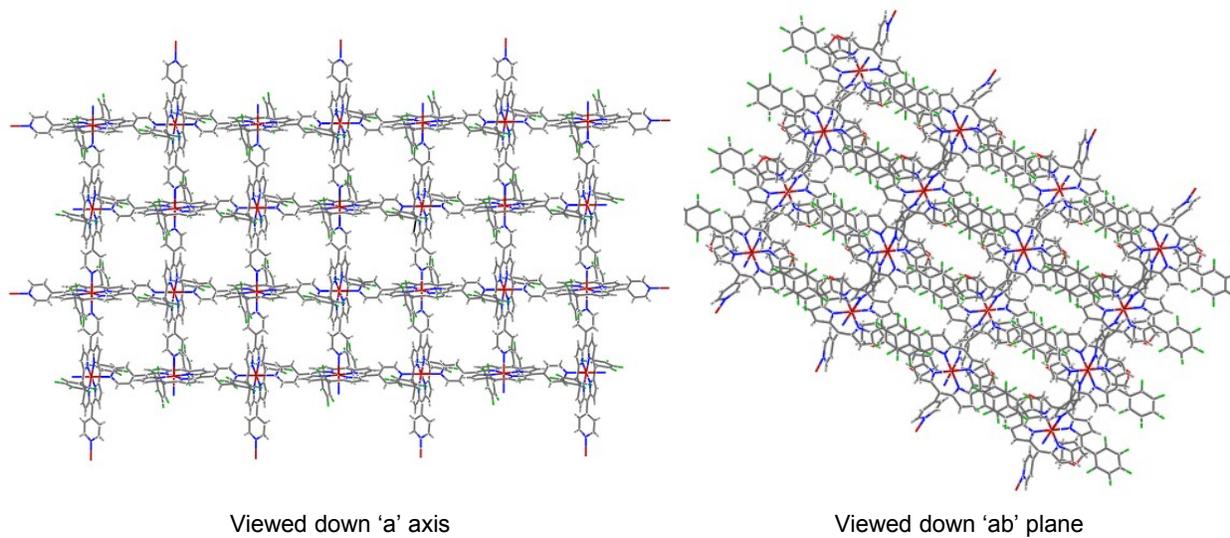


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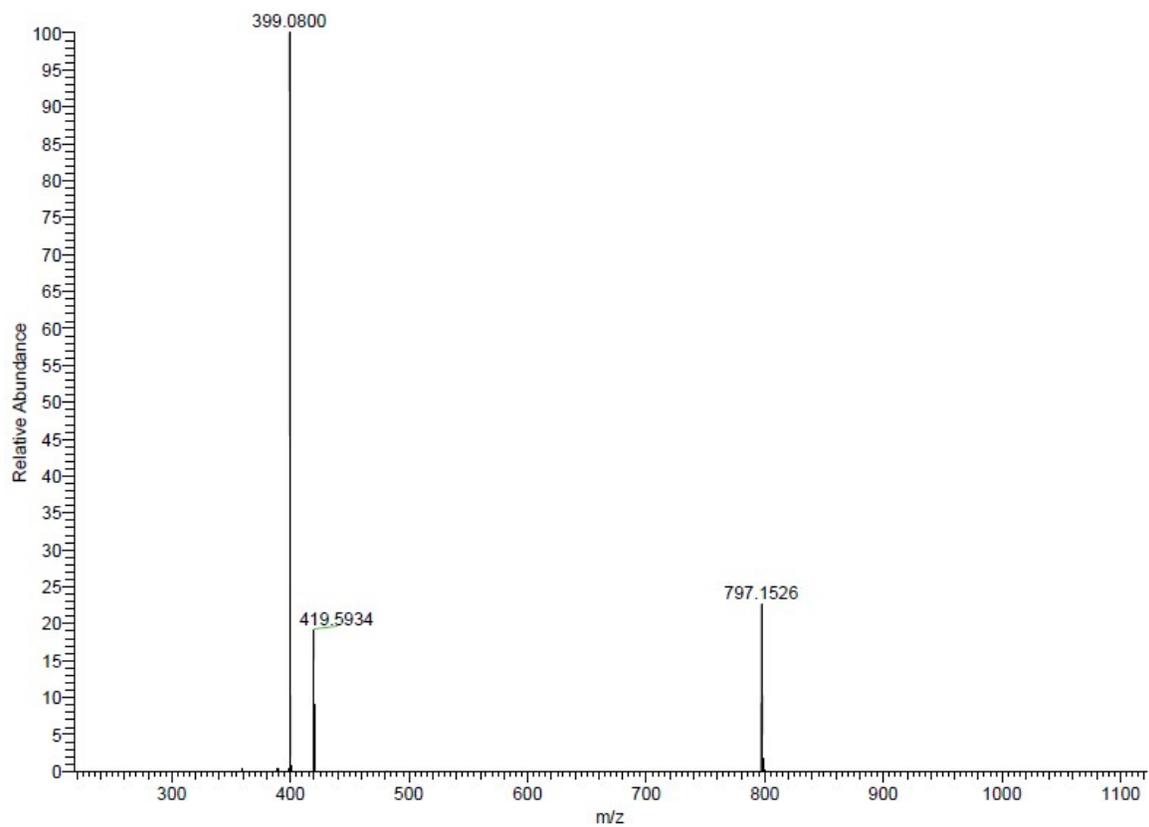


Figure S5. ESI mass spectrum of porphyrin ligand, **3a**.

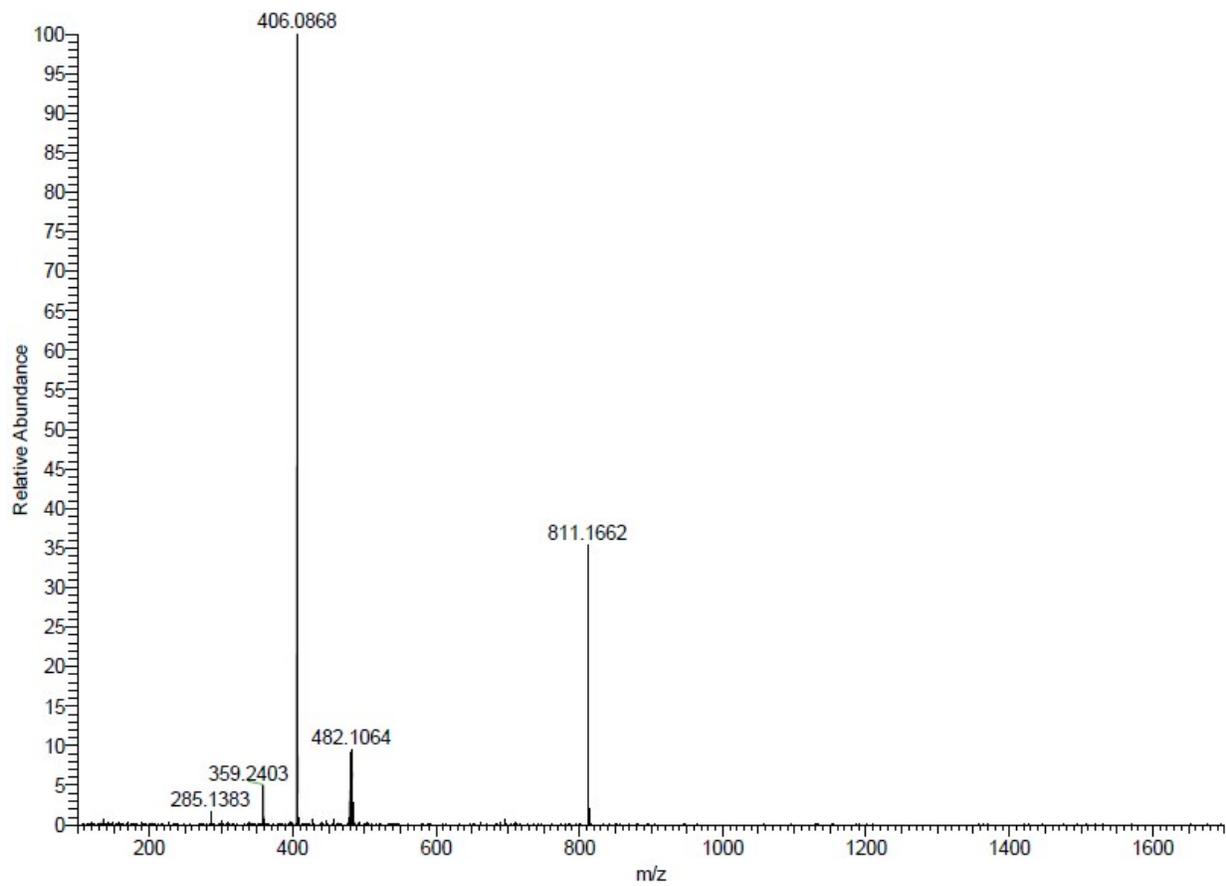


Figure S6. ESI mass spectrum of porphyrin ligand, **6a**.

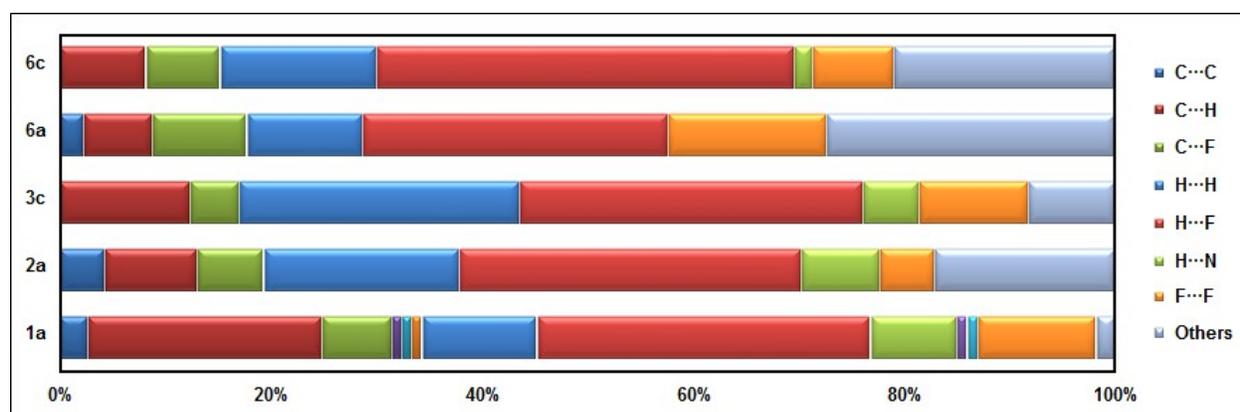


Figure S7. Percentage contribution of non-covalent interactions in porphyrins, **1a**, **2a**, **3c**, **6a** and **6c** on the basis of HSs.



C. albicans

B. subtilis

P. aeruginosa

S. aureus

E. coli

Figure S8. *In vitro* antimicrobial studies of 6c towards five pathogens.

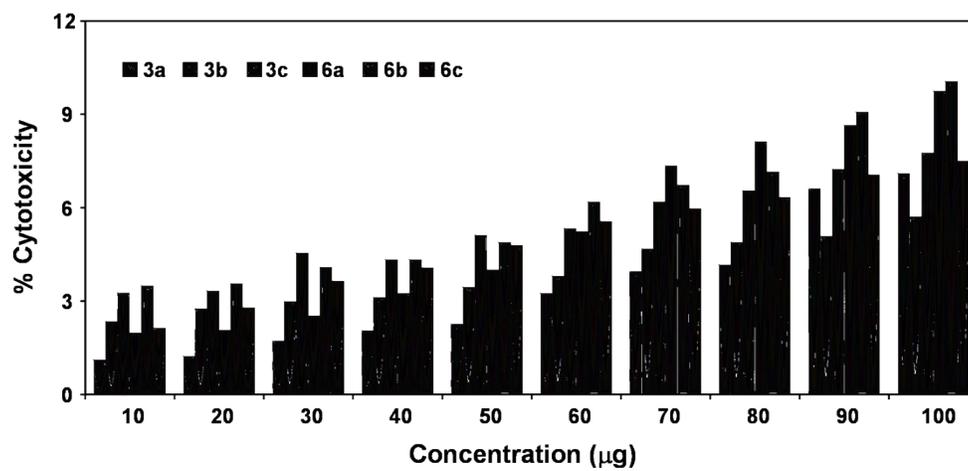


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Porphyrin	4a	4b	4c	5a	5b	5c	6a	6b	6c
Singlet Oxygen Quantum Yield, ϕ_{Δ}	0.85	0.13	0.90	0.68	0.14	0.93	0.90	0.13	0.85
Life time τ (ns)	13.26	6.07	1.76	10.27	12.17	7.18	11.44	9.26	1.47