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Syntheses and Properties of Trimethylaminophenoxy-substituted Zn(II)-Phthalocyanines

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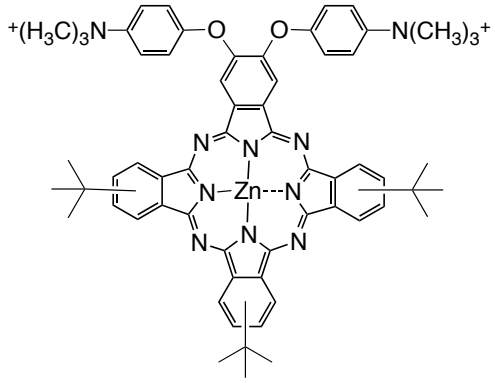

Structure-activity relationships (SAR) on a series of nine cationic ZnPcs are reported.

Electronic Supplementary Information (ESI)

Syntheses and Properties of Trimethylaminophenoxy-substituted Zn(II)-Phthalocyanines

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Table S1. Spectroscopic data for cationic Pcs in PBS (pH = 7.4)

Pc	Absorption λ_{max} (nm)	Emission[a] λ_{max} (nm)	Stokes' shift (nm)
4a	679	681	2
4b	677	680	3
6a	680	684	4
6b	678	681	3
8	679	682	3
12	678	681	3
13	682	685	3
14	680	684	4
17a	680	683	3
17b	677	679	2

[a] Excitation at 630 nm.

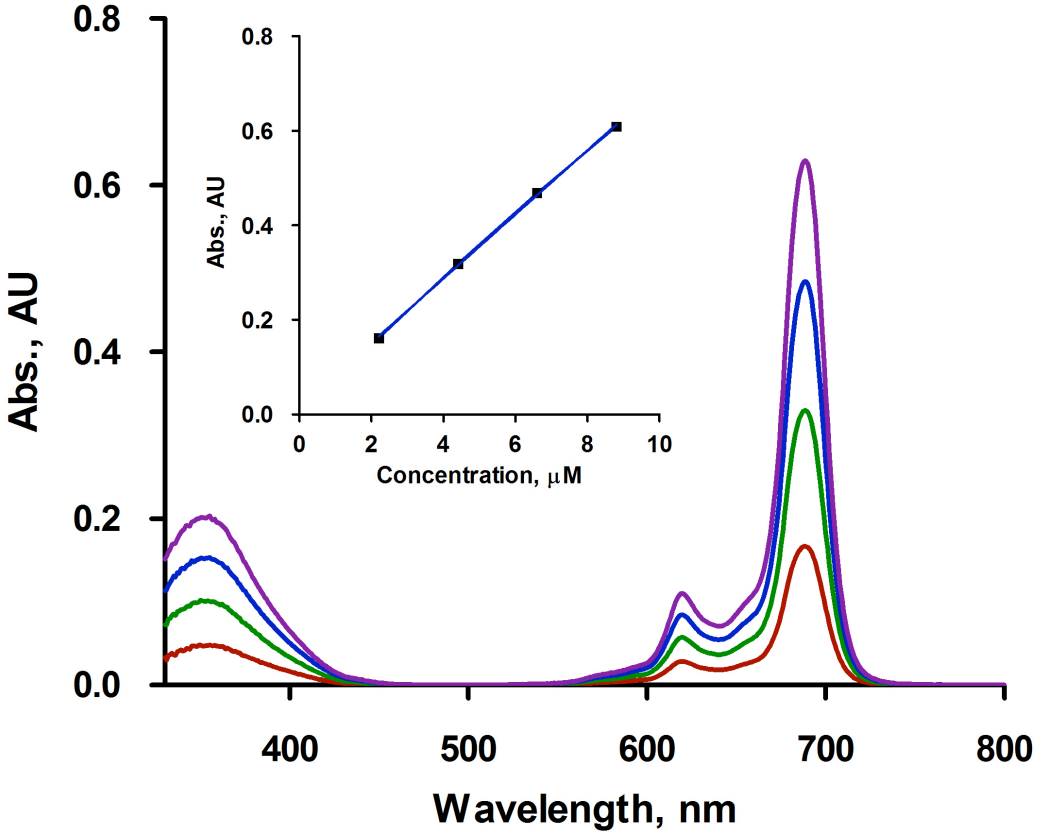

Figure S1. UV-Vis spectra for Pc **4a** in DMF: 2.2 μM (red), 4.4 μM (green), 6.6 μM (blue) and 8.8 μM (purple).

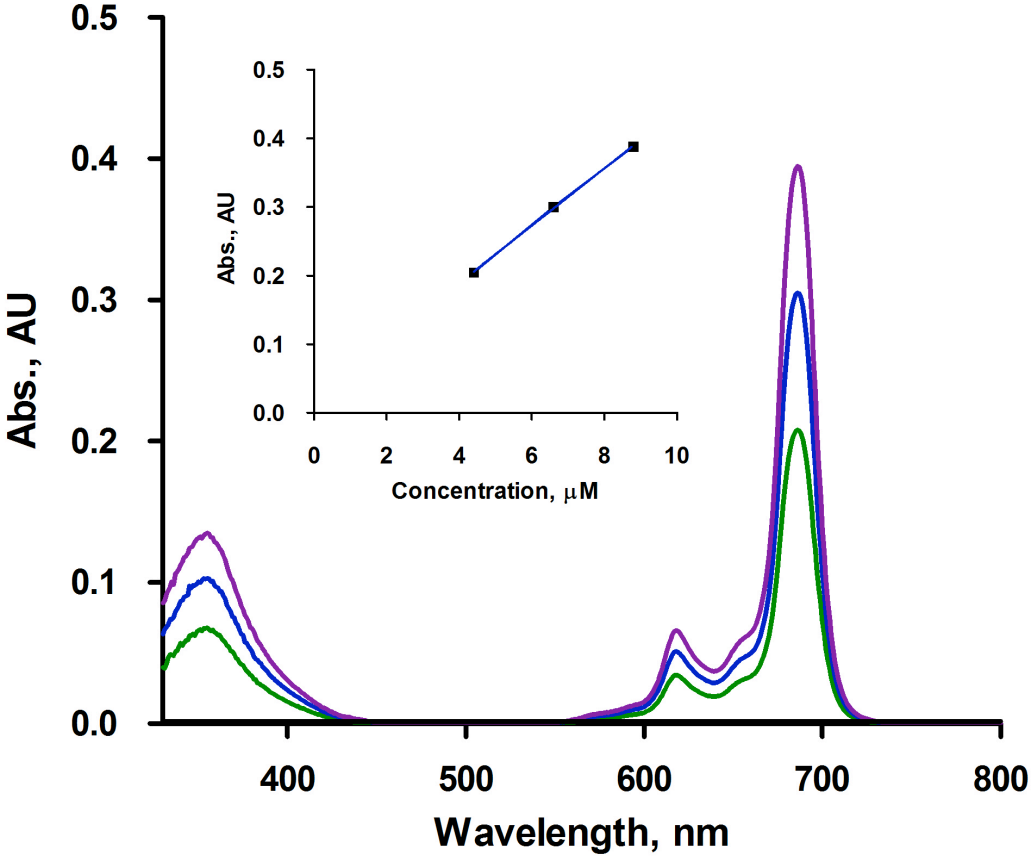

Figure S2. UV-Vis spectra for Pc **4b** in DMF: 4.4 µM (green), 6.6 µM (blue) and 8.8 µM (purple).

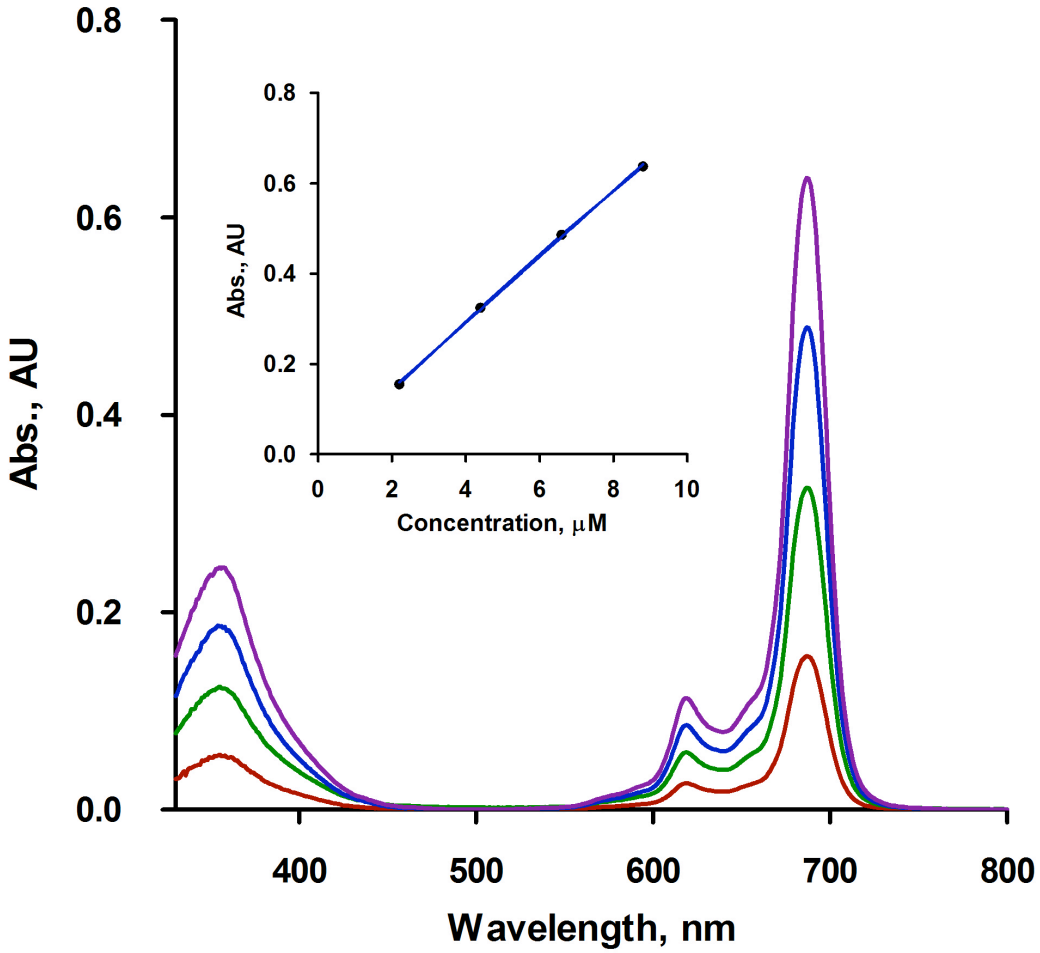

Figure S3. UV-Vis spectra for Pc **12** in DMF: 2.2 μM (red), 4.4 μM (green), 6.6 μM (blue) and 8.8 μM (purple).

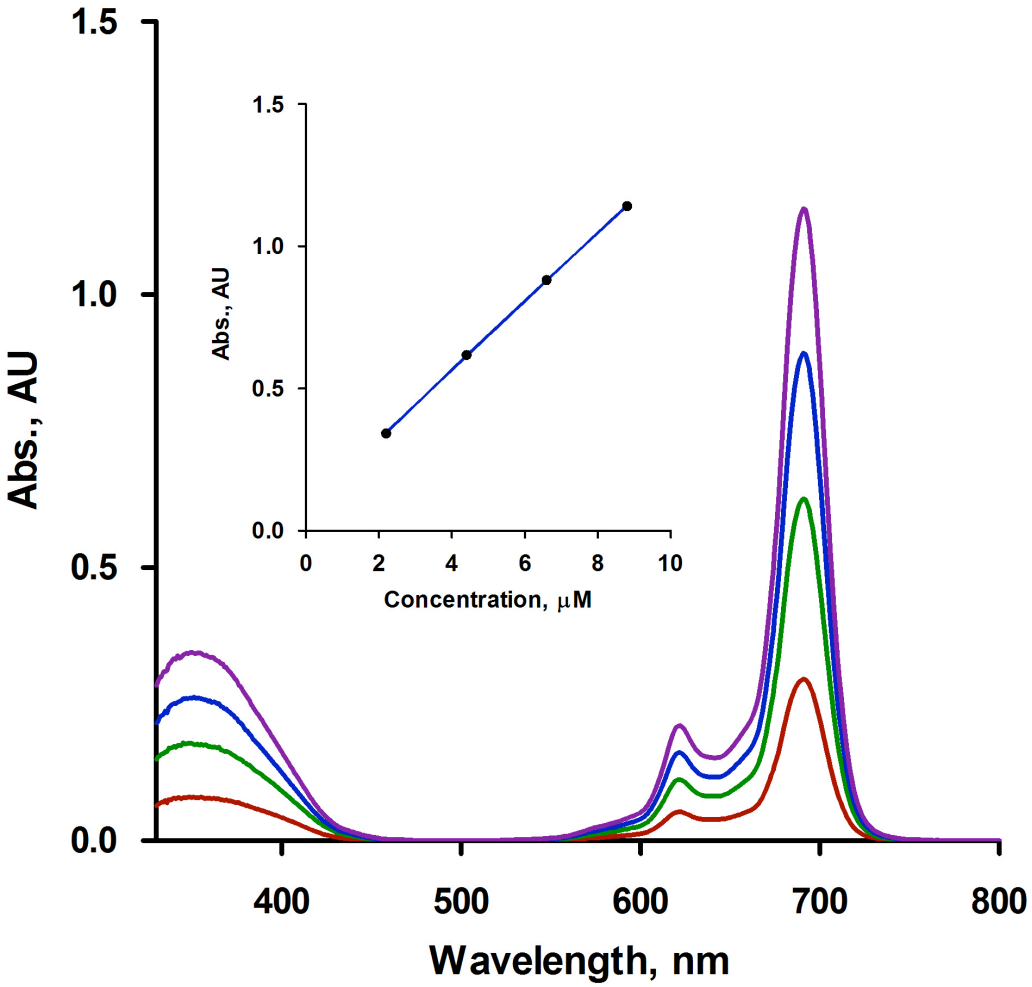

Figure S4. UV-Vis spectra for Pc **6a** in DMF: 2.2 μM (red), 4.4 μM (green), 6.6 μM (blue) and 8.8 μM (purple).

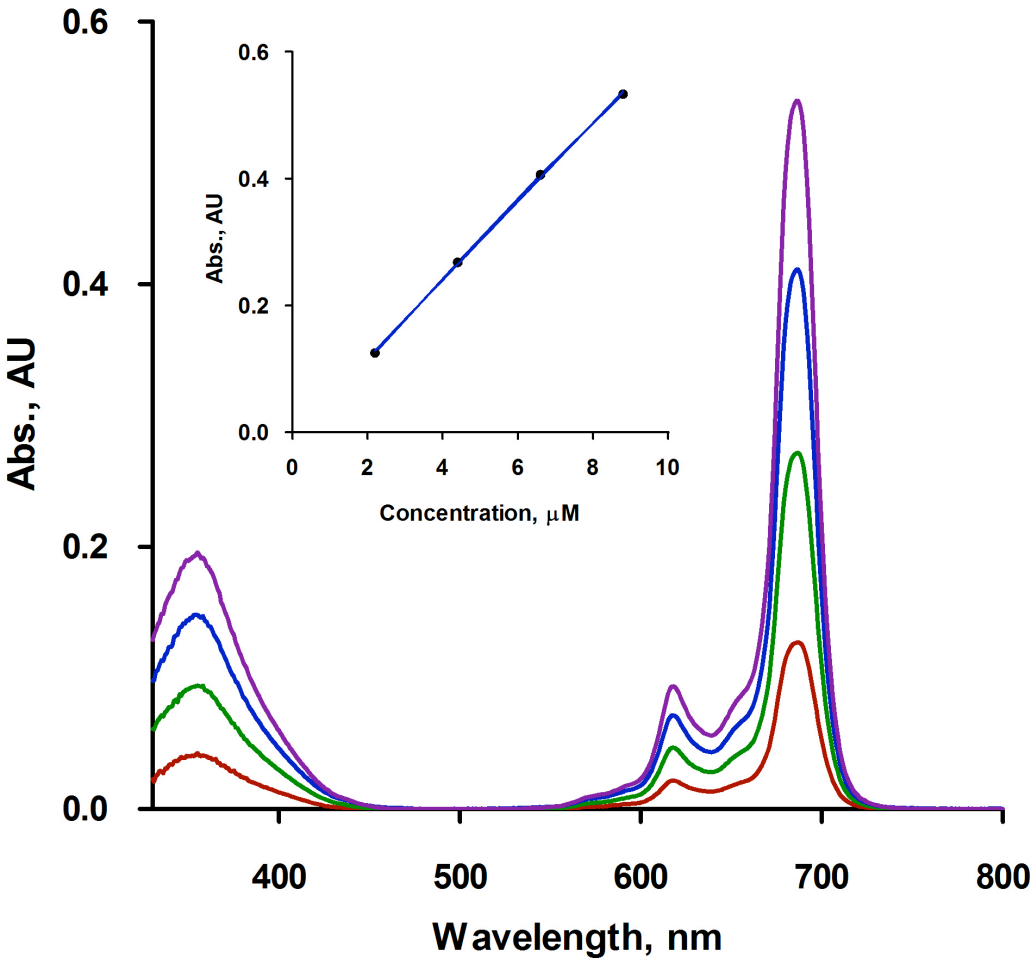

Figure S5. UV-Vis spectra for Pc **6b** in DMF: 2.2 μM (red), 4.4 μM (green), 6.6 μM (blue) and 8.8 μM (purple).

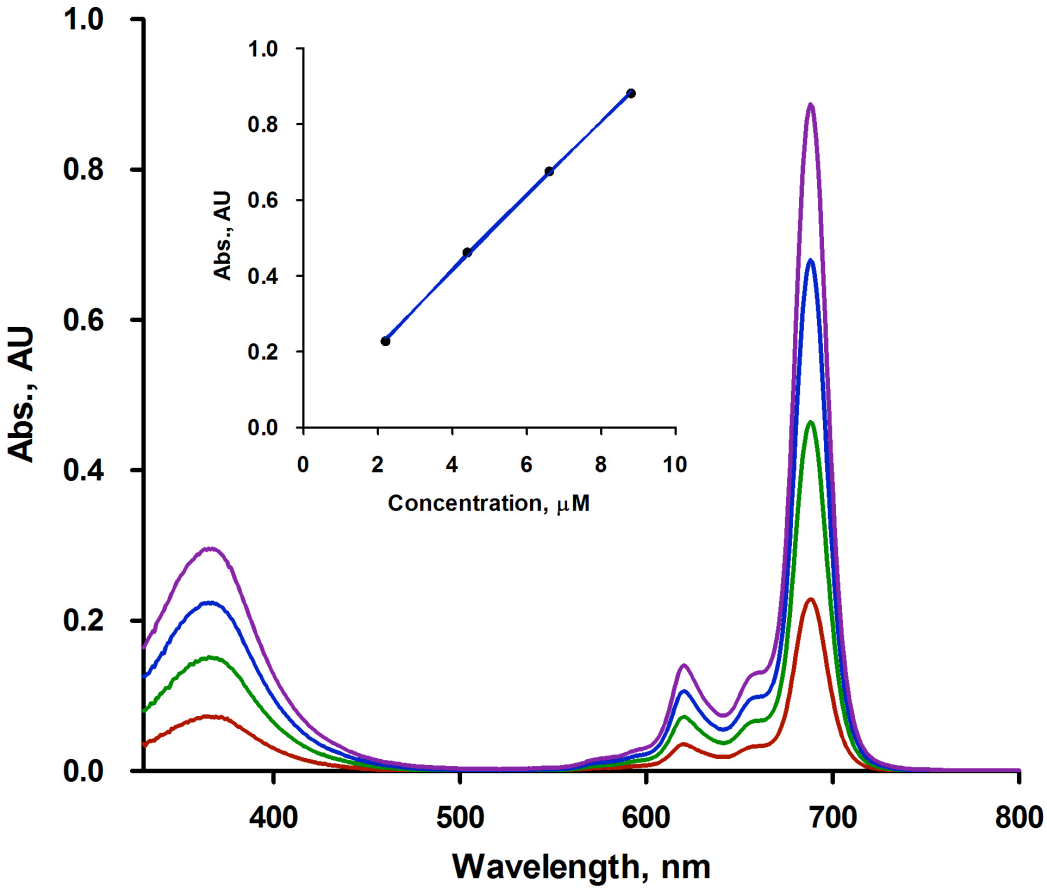

Figure S6. UV-Vis spectra for Pc **14** in DMF: 2.2 μM (red), 4.4 μM (green), 6.6 μM (blue) and 8.8 μM (purple).

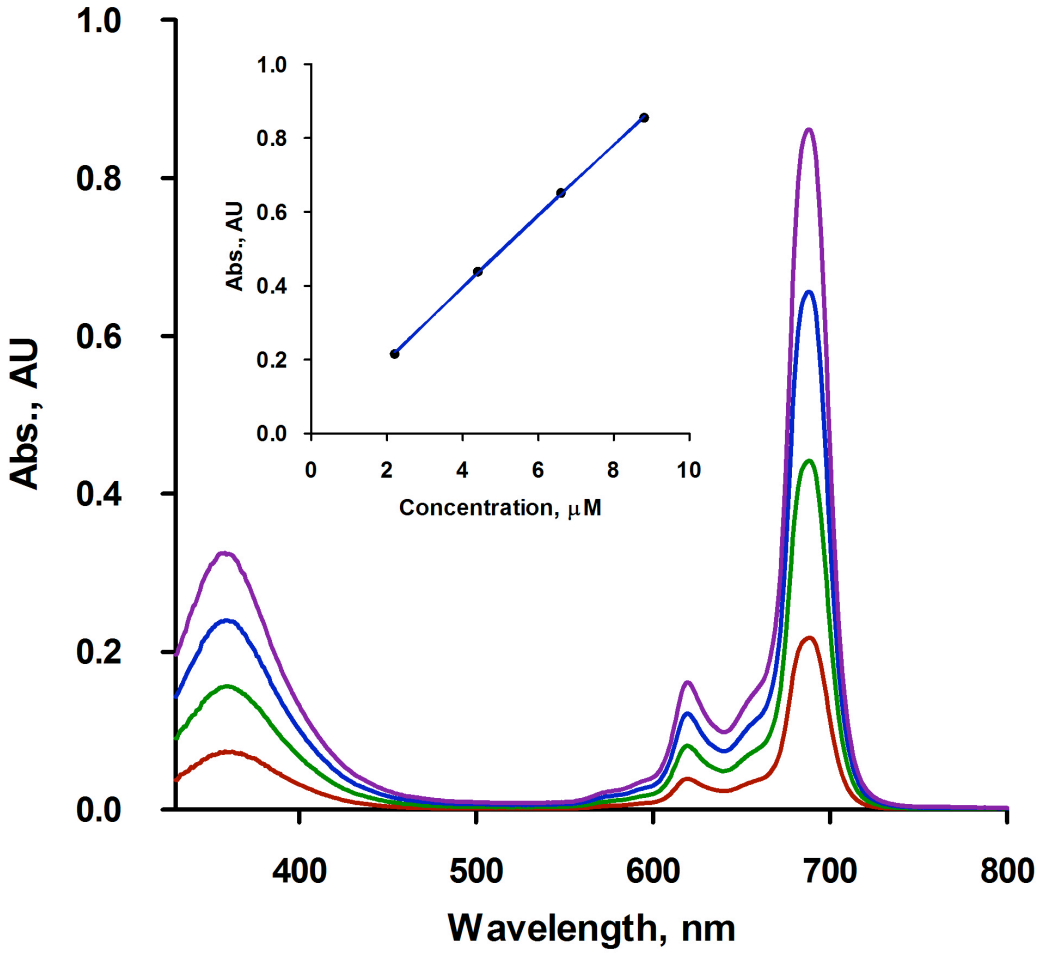

Figure S7. UV-Vis spectra for Pc **8** in DMF: 2.2 μM (red), 4.4 μM (green), 6.6 μM (blue) and 8.8 μM (purple).

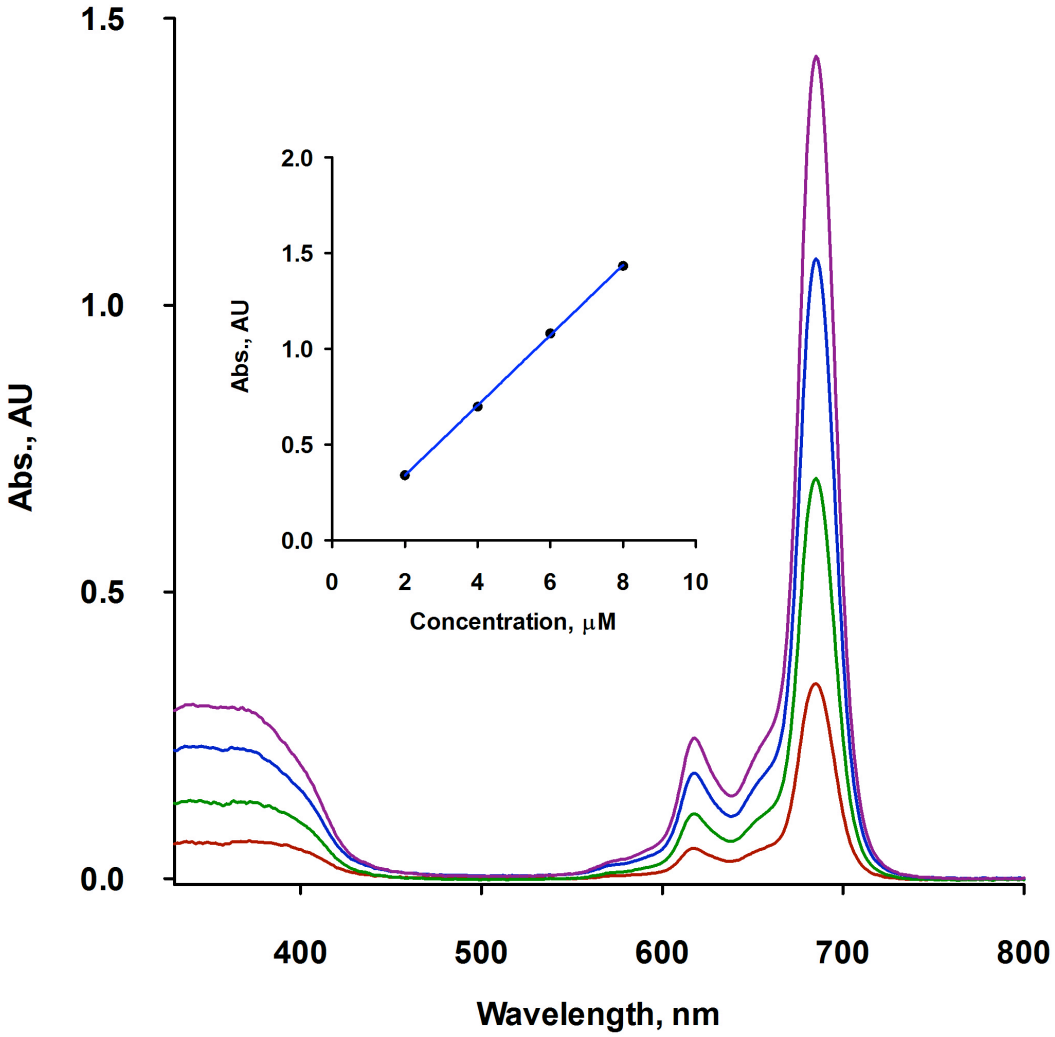

Figure S8. UV-Vis spectra for Pc **17a** in DMF: 2.0 μM (red), 4.0 μM (green), 6.0 μM (blue) and 8.0 μM (purple).

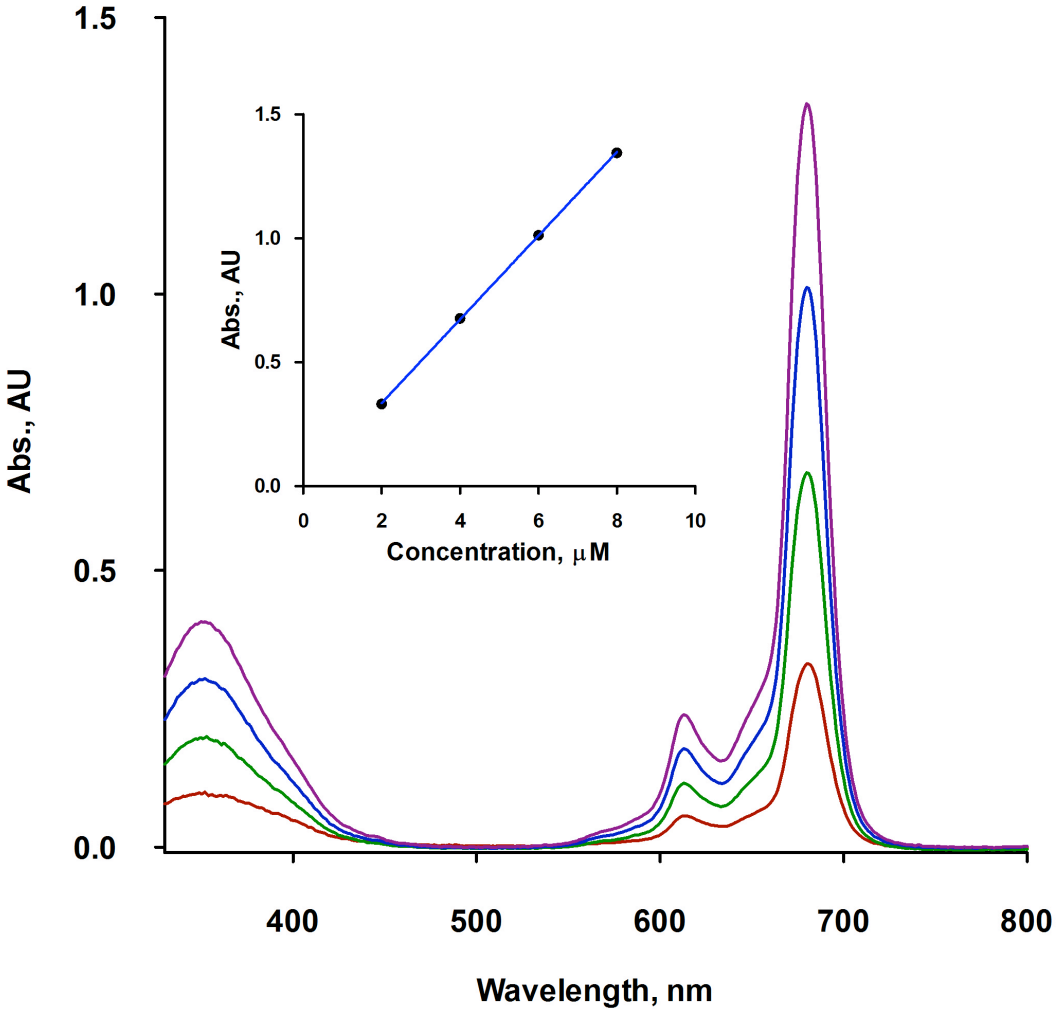

Figure S9. UV-Vis spectra for Pc **17b** in DMF: 2.0 μM (red), 4.0 μM (green), 6.0 μM (blue) and 8.0 μM (purple).

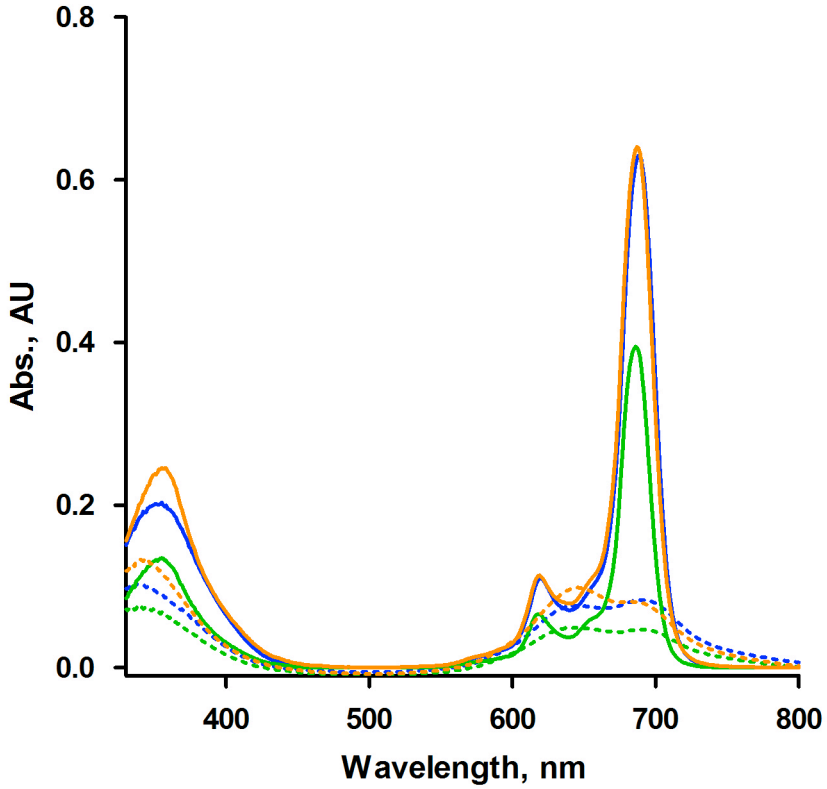

Figure S10. UV-Vis spectra for Pc **4a** (blue), **4b** (green), and **12** (orange) at 8.8 μM in DMF; **4a** (dotted blue), **4b** (dotted green), and **12** (dotted orange) at 8.8 μM in PBS, pH 7.4.

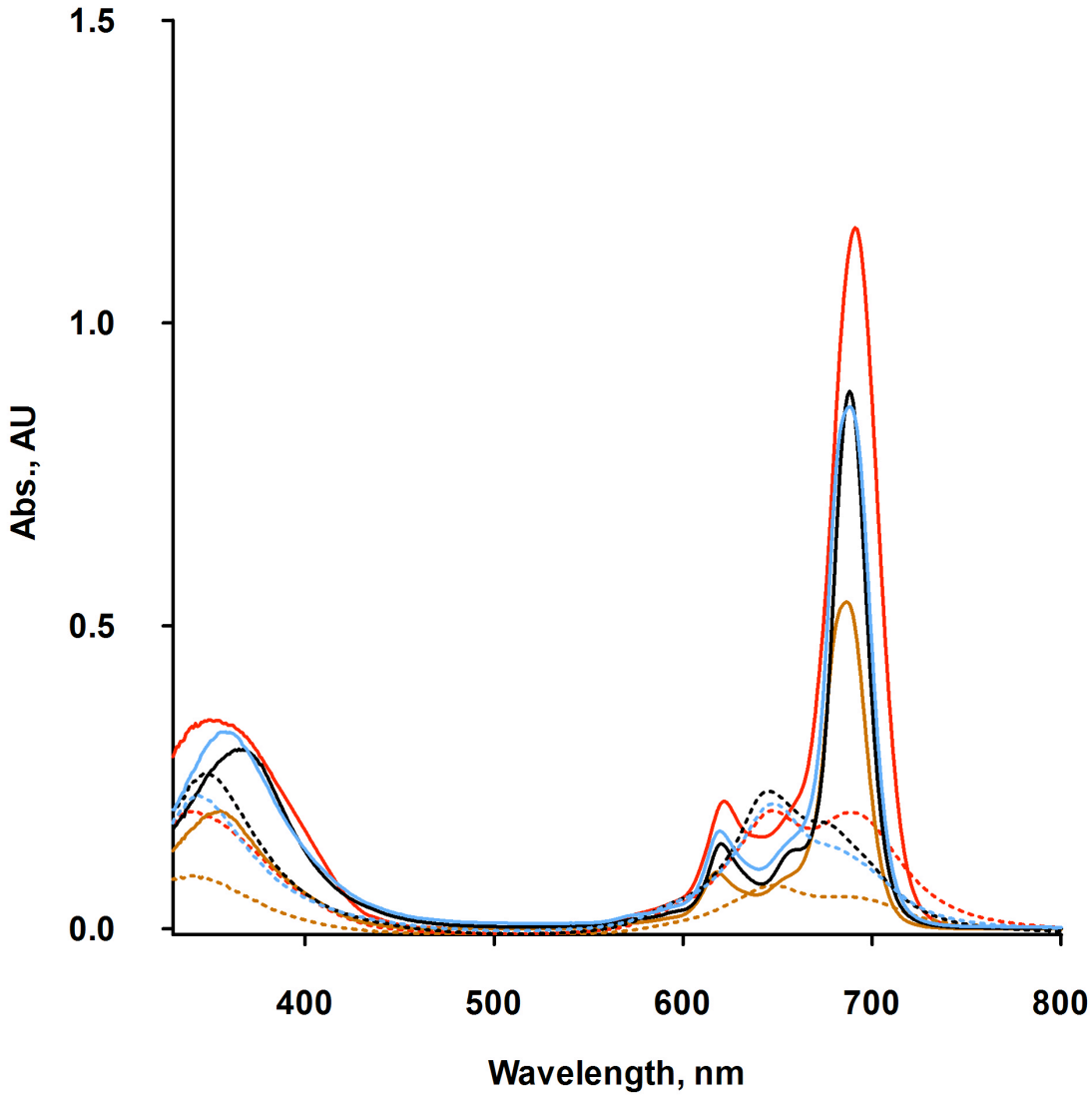

Figure S11. UV-Vis spectra for Pc **6a** (red), **6b** (brown), **8** (violet) and **14** (black) at 8.8 μM in DMF; **6a** (dotted red), **6b** (dotted brown), **8** (dotted violet) and **14** (dotted black) at 8.8 μM in PBS, pH 7.4.

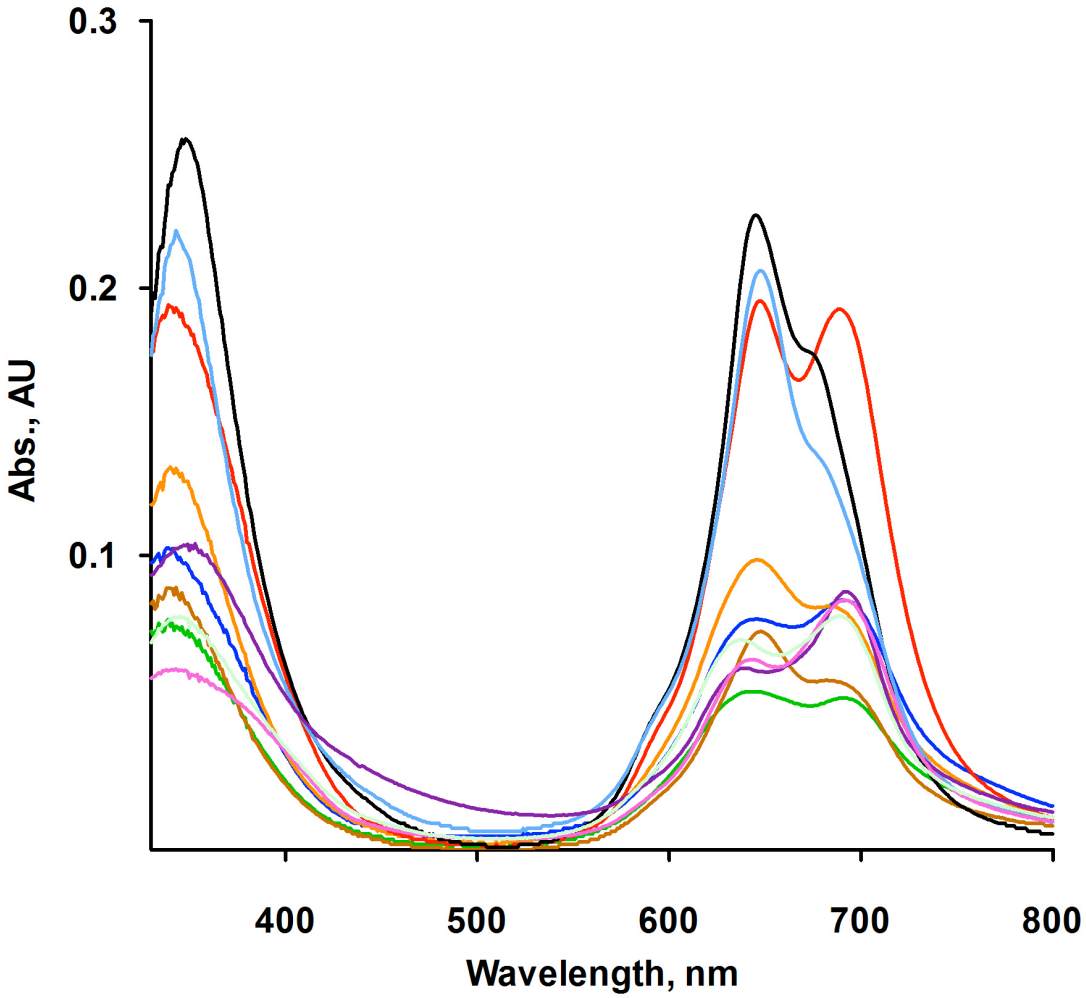

Figure S12. UV-Vis spectra for Pc **4a** (blue), **4b** (green), **6a** (red), **6b** (brown), **8** (light blue), **12** (orange), **13** (purple), **14** (black), **17a** (pink) and **17b** (light green) at 8.8 μM in PBS, pH 7.4.

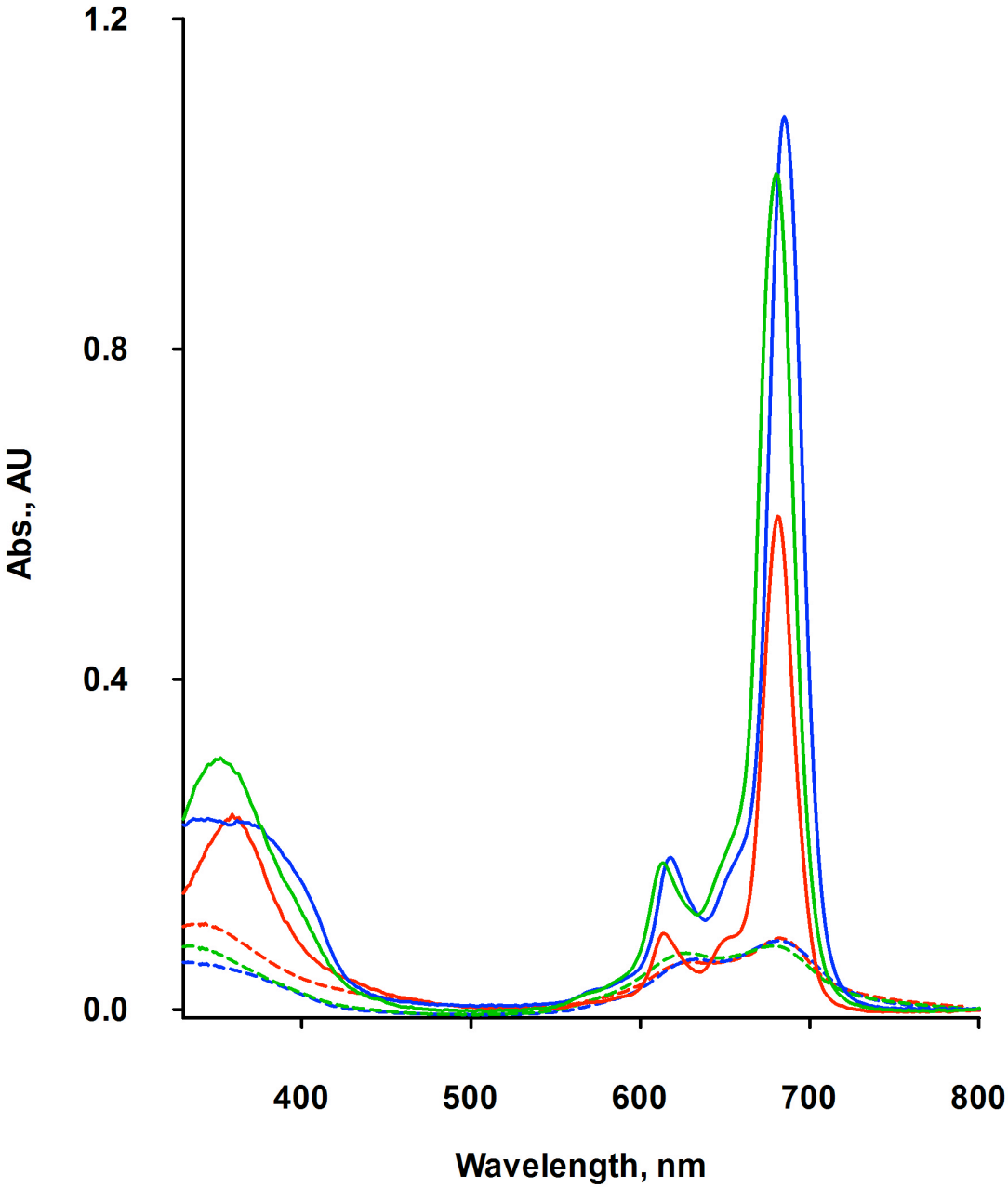

Figure S13. UV-Vis spectra for Pc **13** (red), **17a** (blue) and **17b** (green) at 6.0 μM in DMF; **13** (dotted red), **17a** (dotted blue), **17b** (dotted green) at 6.0 μM in PBS, pH 7.4.

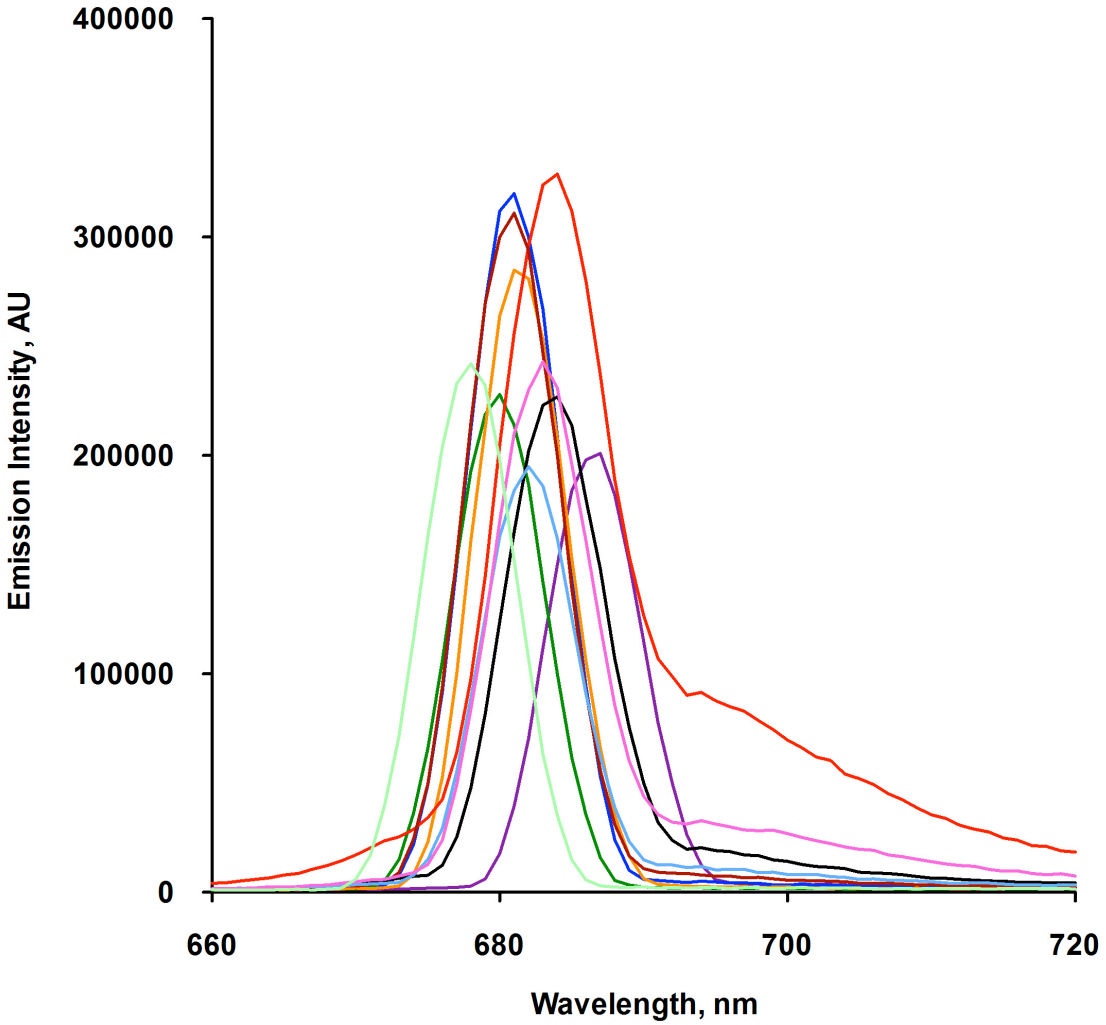

Figure S14. Emission spectra for Pc **4a** (blue), **4b** (green), **6a** (red), **6b** (brown), **8** (light blue), **12** (orange), **13** (violet), **14** (black), **17a** (pink) and **17b** (light green) at 6.0 μM in PBS, pH 7.4.

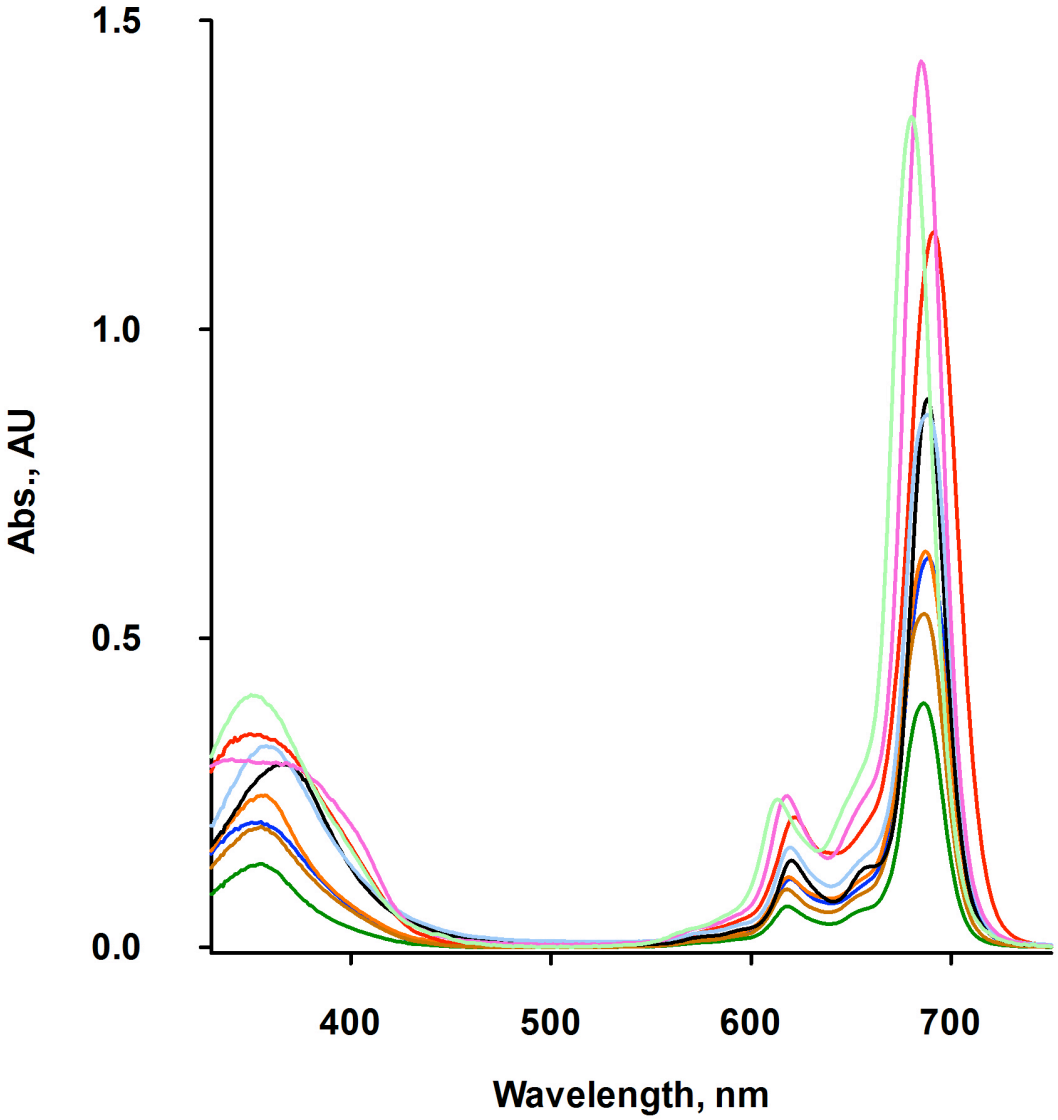

Figure S15. UV-Vis spectra for Pc **4a** (blue), **4b** (green), **6a** (red), **6b** (brown), **8** (light blue), **12** (orange), **14** (black), **17a** (pink) and **17b** (light green) at 8.0 μM in DMF.

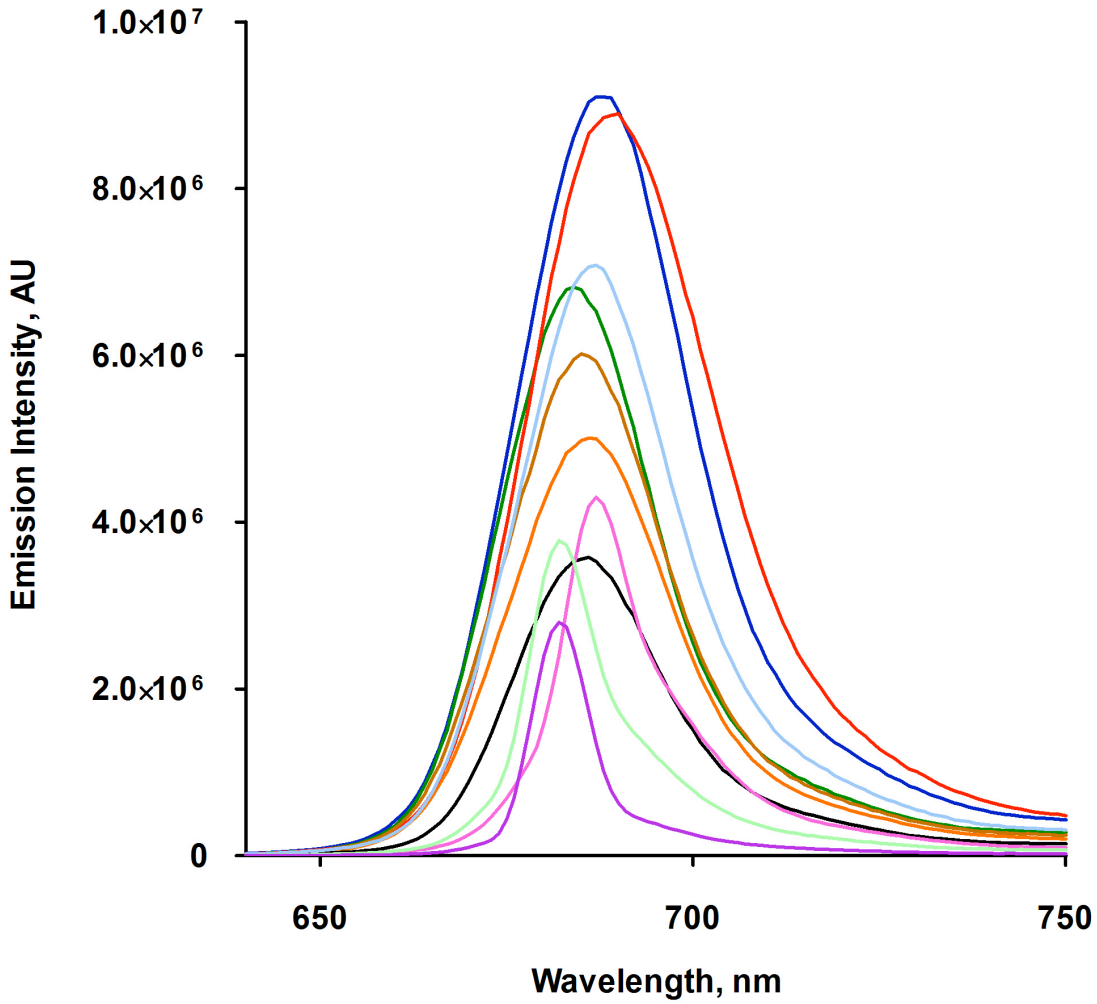

Figure S16. Emission spectra for Pc **4a** (blue), **4b** (green), **6a** (red), **6b** (brown), **8** (light blue), **12** (orange), **13** (violet), **14** (black), **17a** (pink) and **17b** (light green) in DMF.