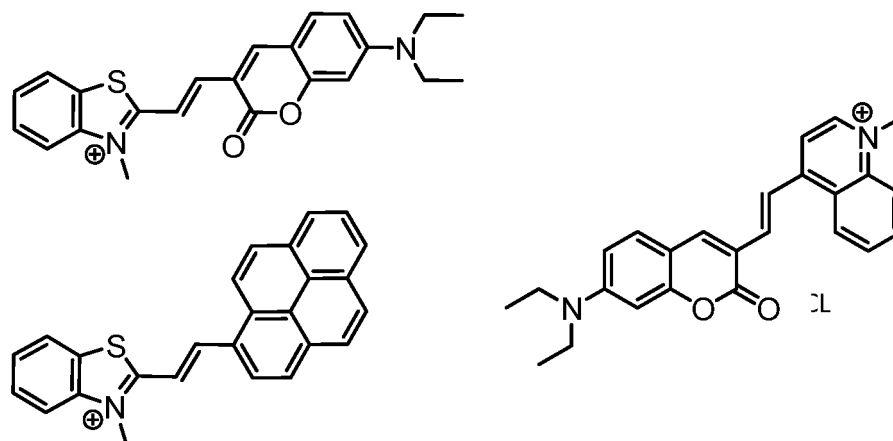




Code	DNA duplex	Sequence
(AT) ₁₀	dA ₁₀ -dT ₁₀	5'-AAAAAAAAAAAA-3' 3'-TTTTTTTTTTT-5'
(GC) ₁₀	dG ₁₀ -dC ₁₀	5'-GGGGGGGGGG-3 3'-CCCCCCCCC-5'
(AT) ₂₀	dA ₂₀ -dT ₂₀	5'-AAAAAAAAAAAAAAAAAAAA-3' 3'-TTTTTTTTTTTTTTTTTT-5'
d(AATT) ₅	d(AATT) ₅	5'-AATTAATTAATTAATT-3' 3'-TTAATTAATTAATTAA-5'
(D1) _{mix}	mixed DNA	5'- CGATAAGCGCTTATCG-3' 3'-GCTATTCGCGAATAGC-5'
(D2) _{mix}	mixed DNA	5'- CGGTACCGCGGTACCG -3' 3'-GCCATGGCGCCATGGC-5'

FIGURE 1

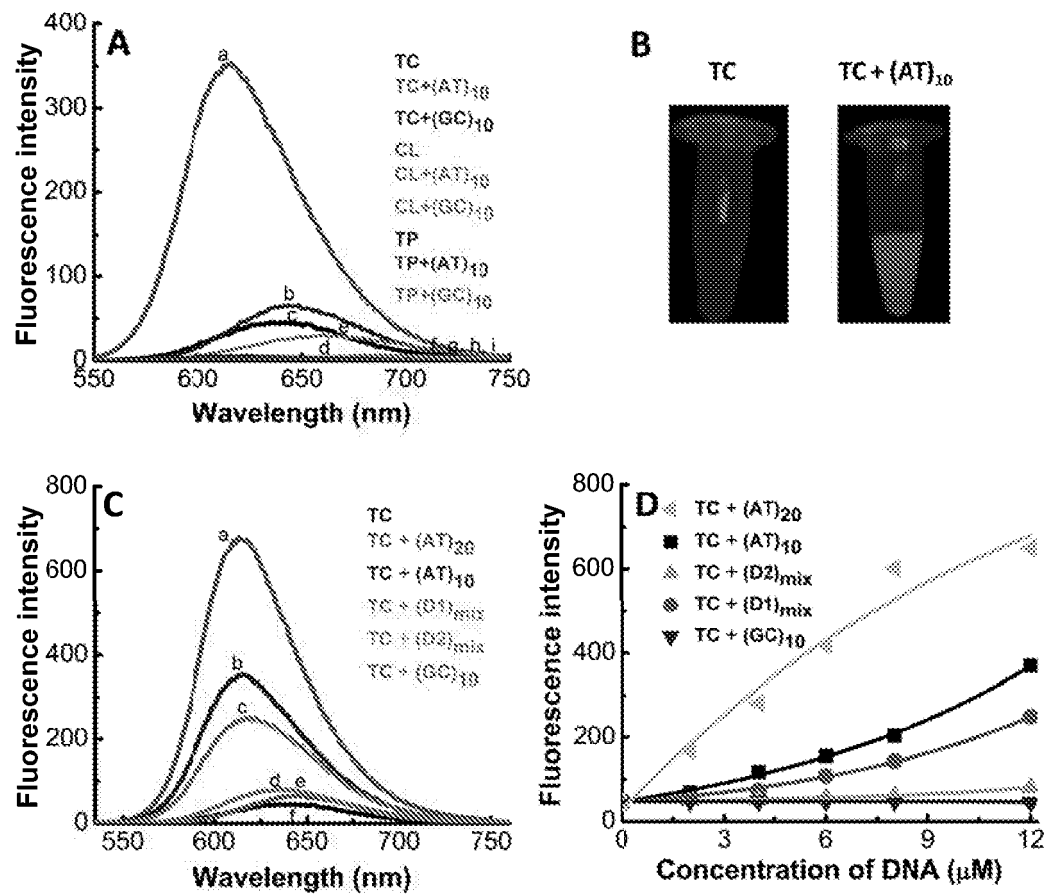


FIGURE 2

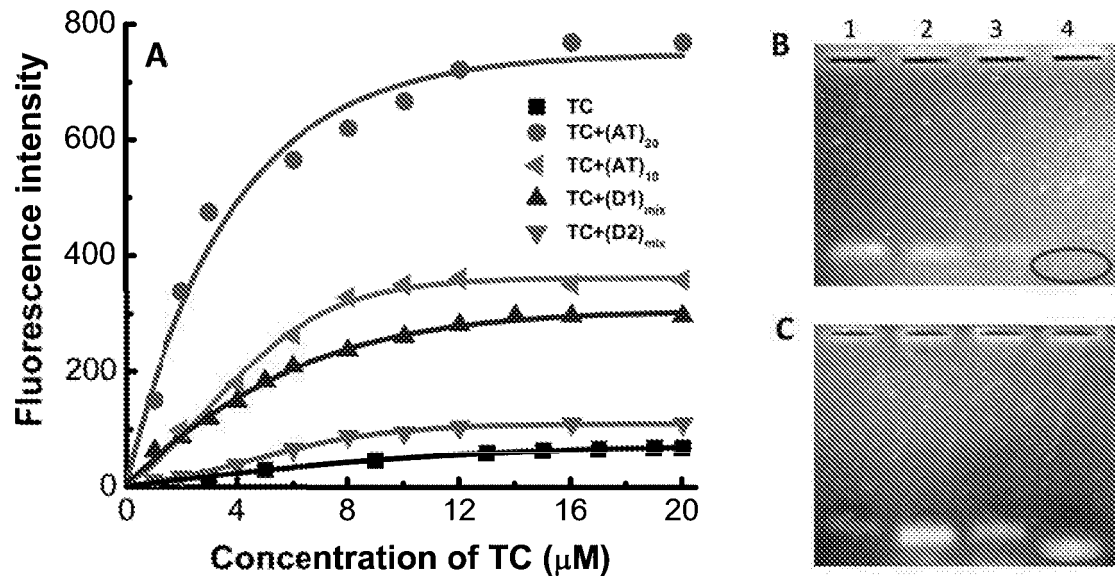
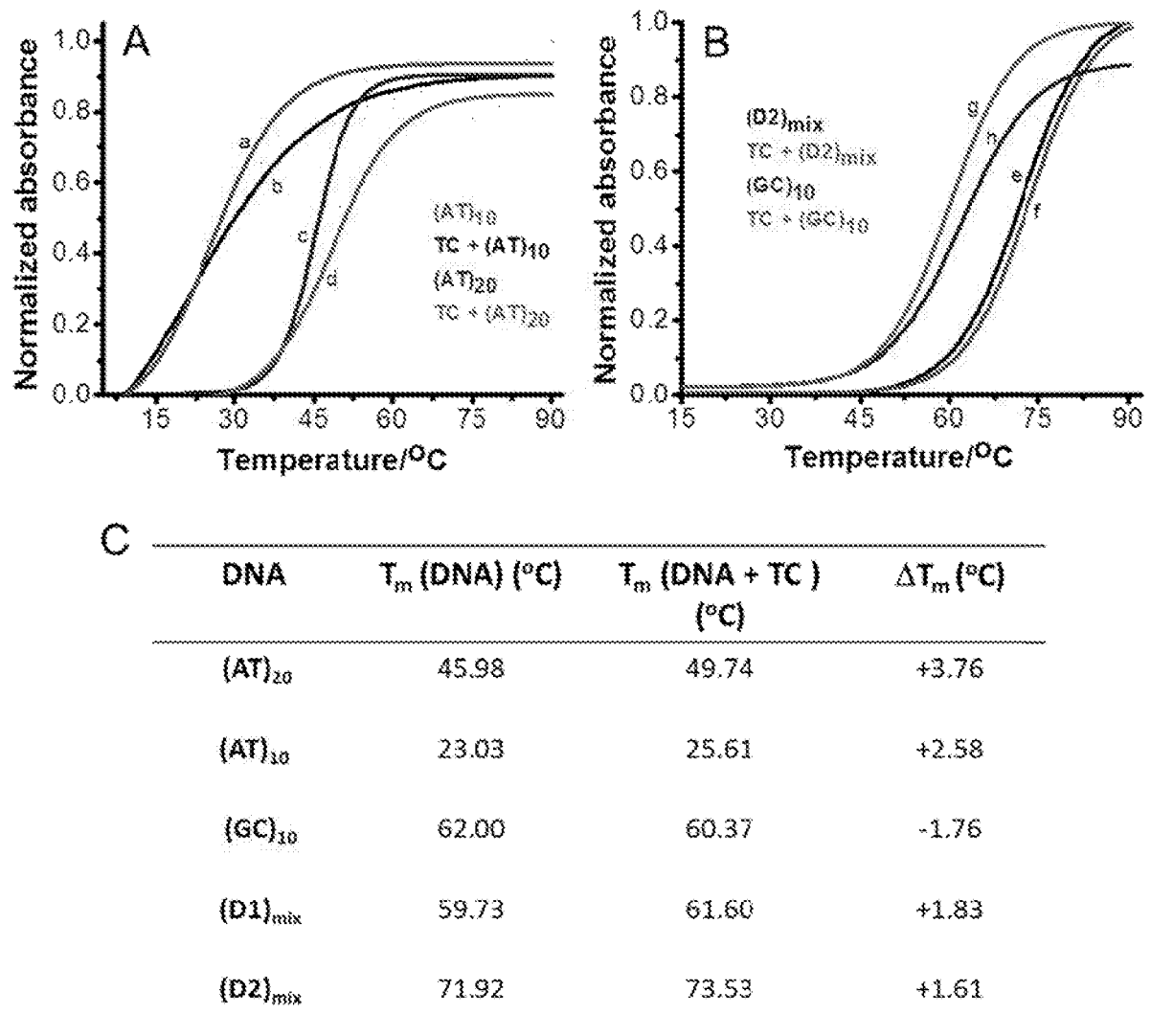


FIGURE 3

**FIGURE 4**

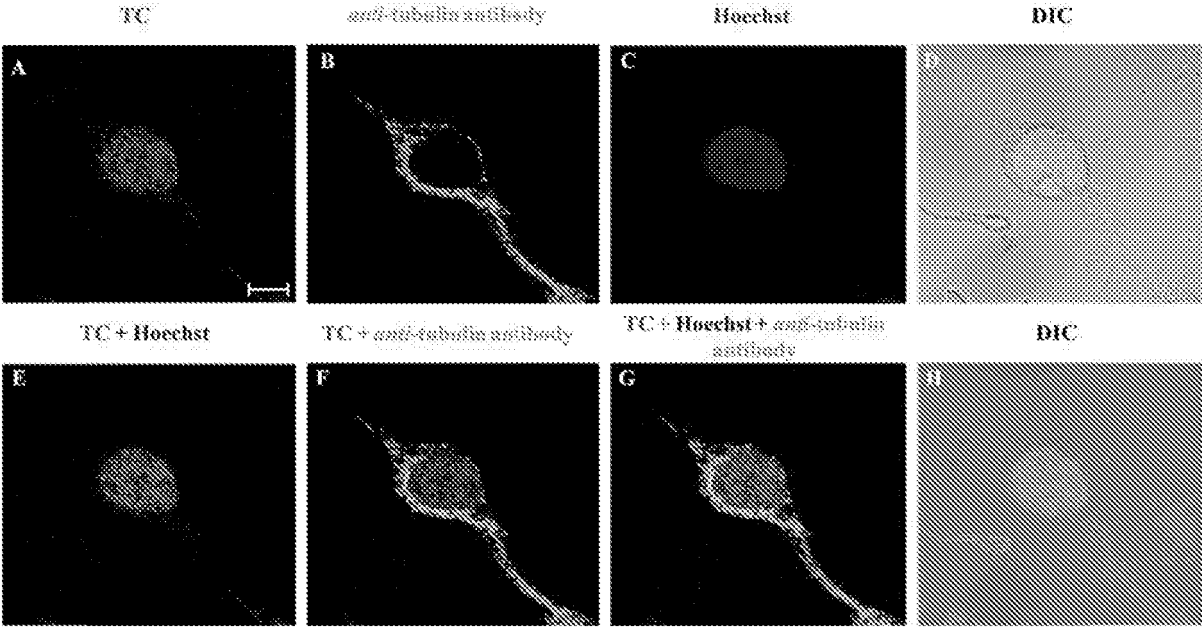


FIGURE 5

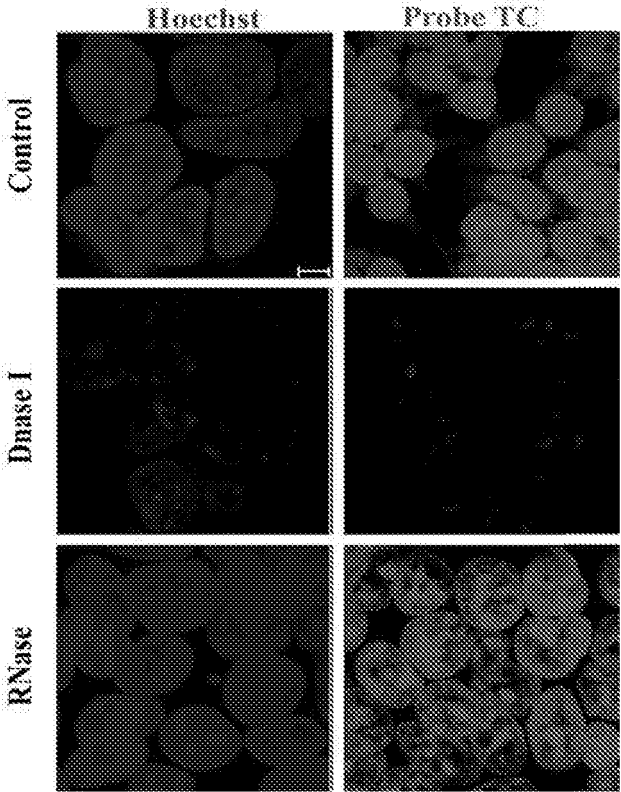
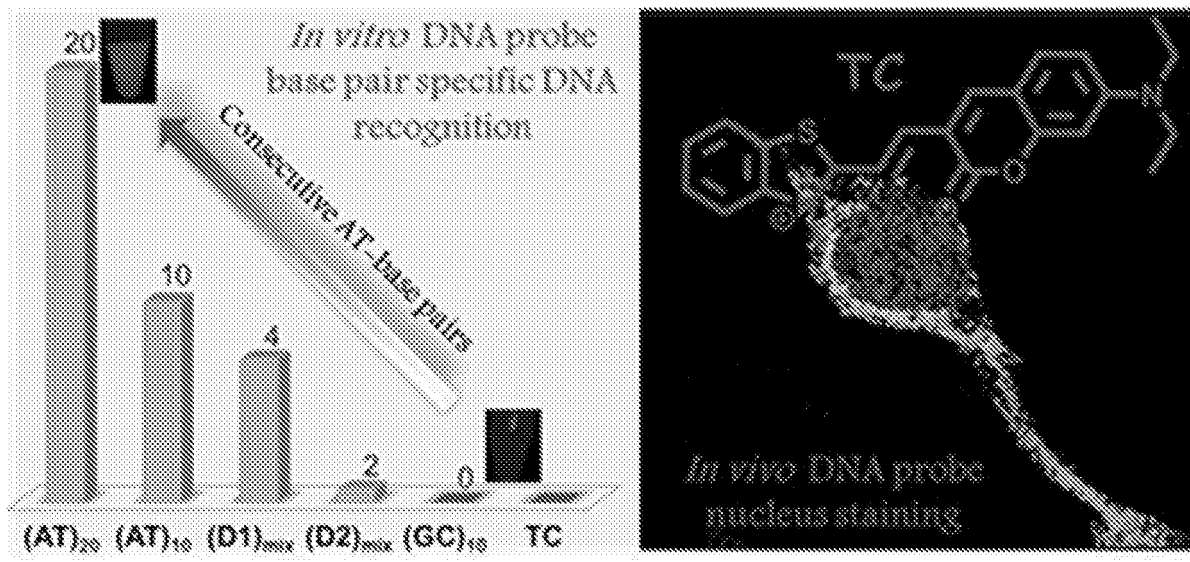
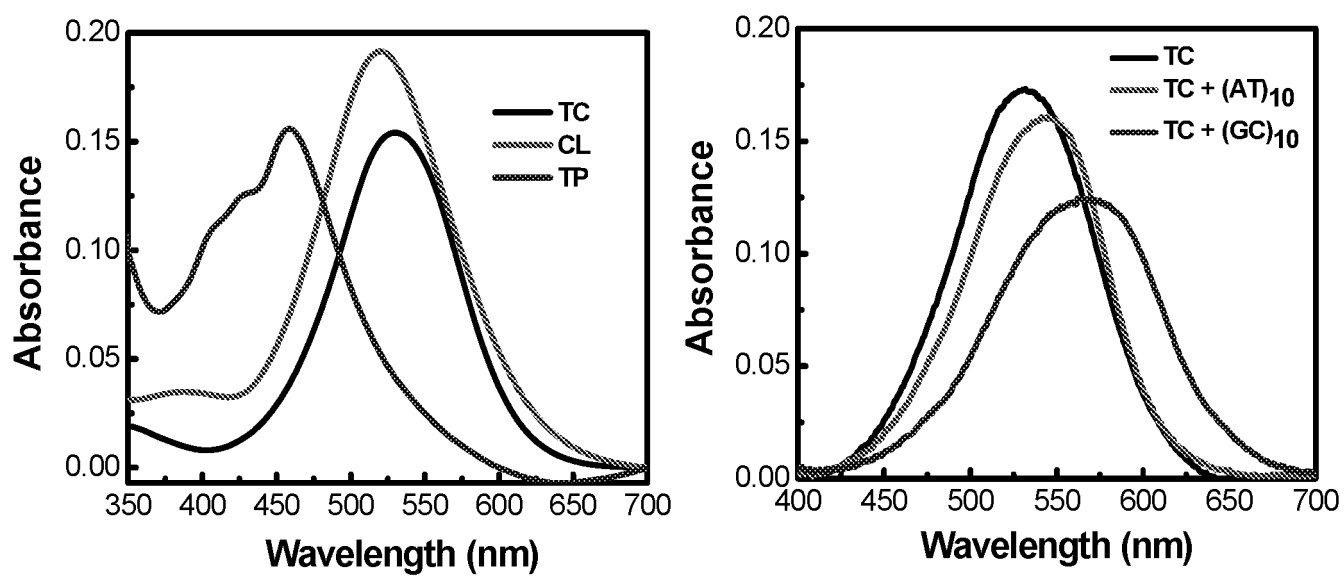


FIGURE 6

**FIGURE 7****FIGURE 8**

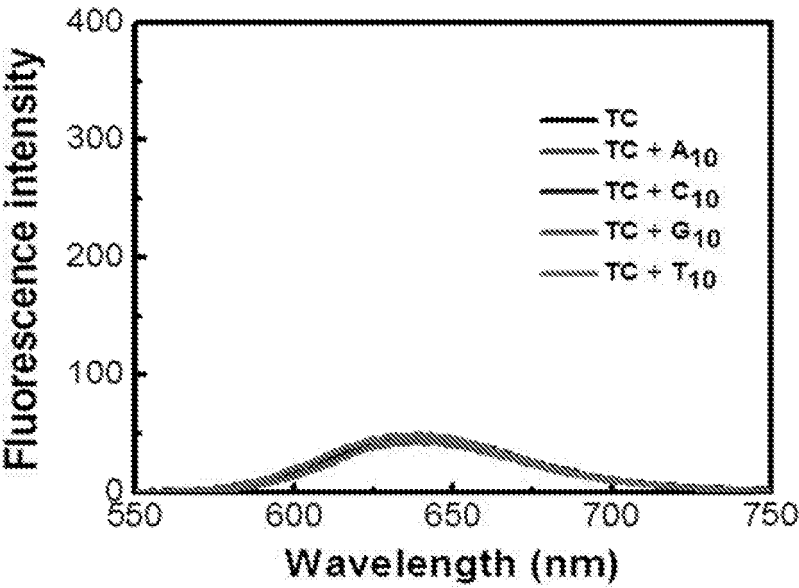


FIGURE 9

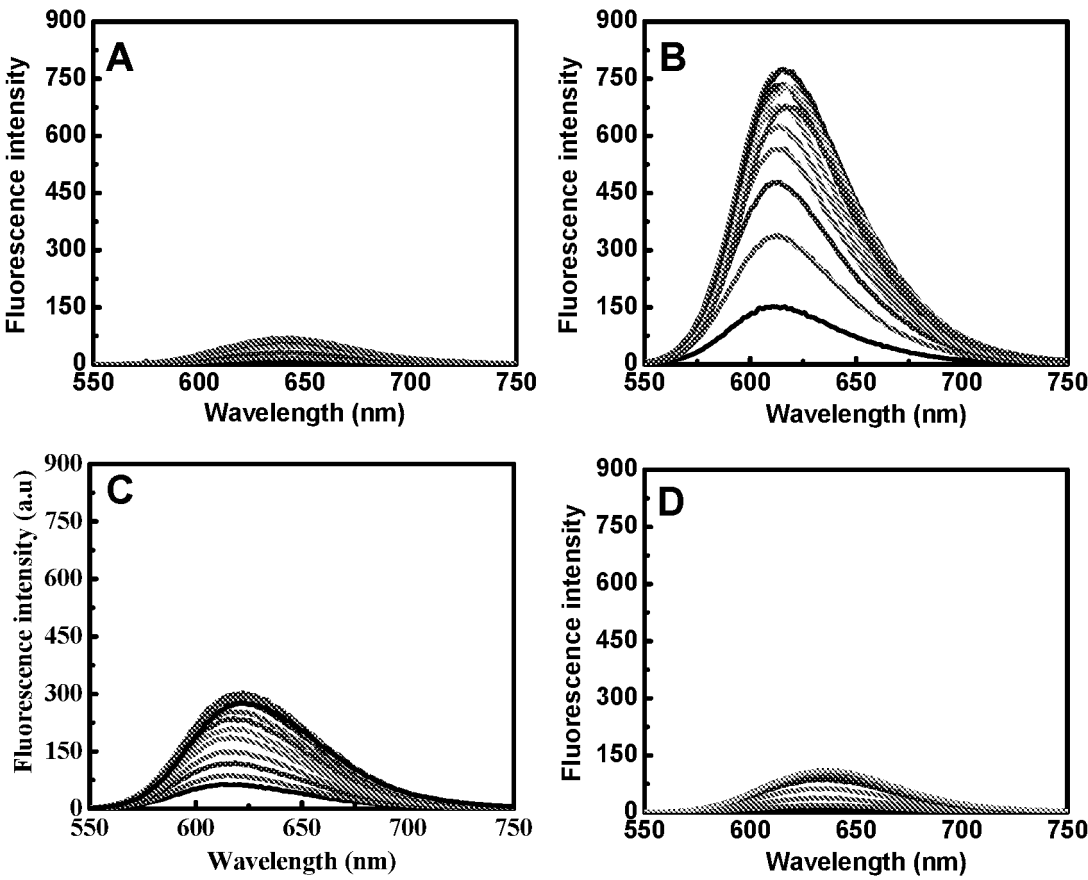
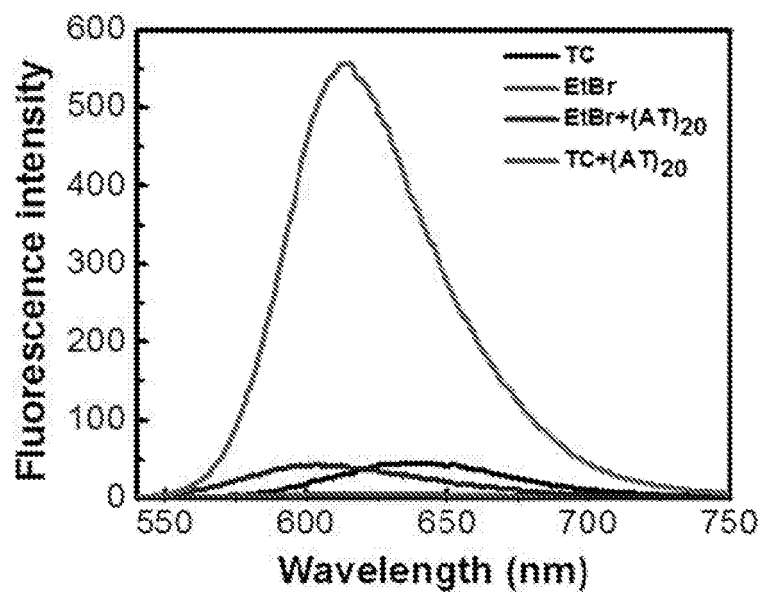
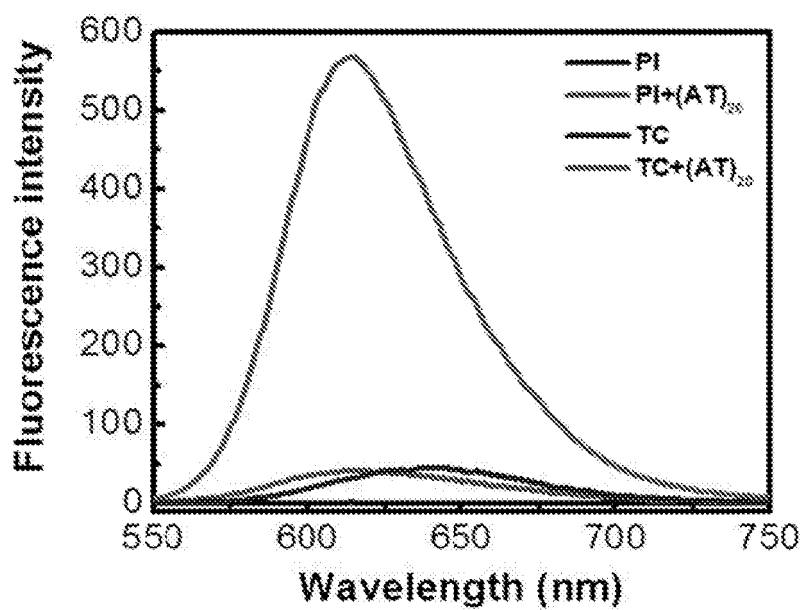
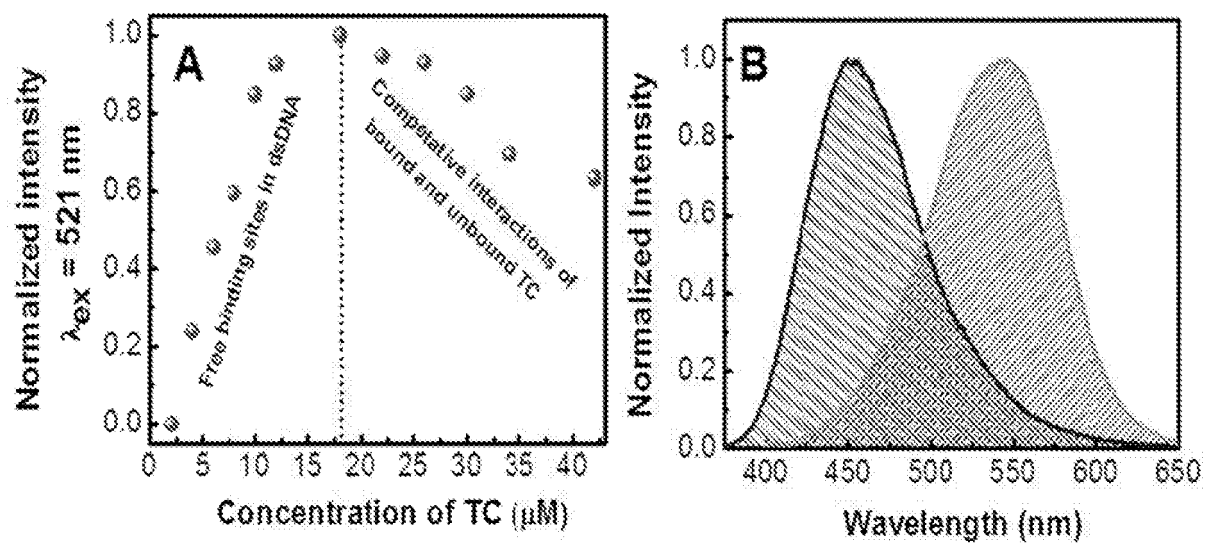
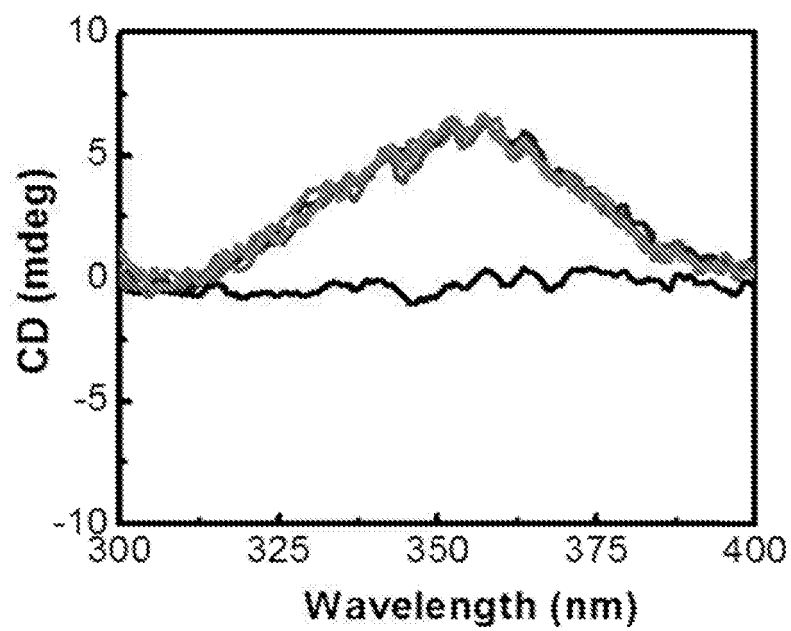
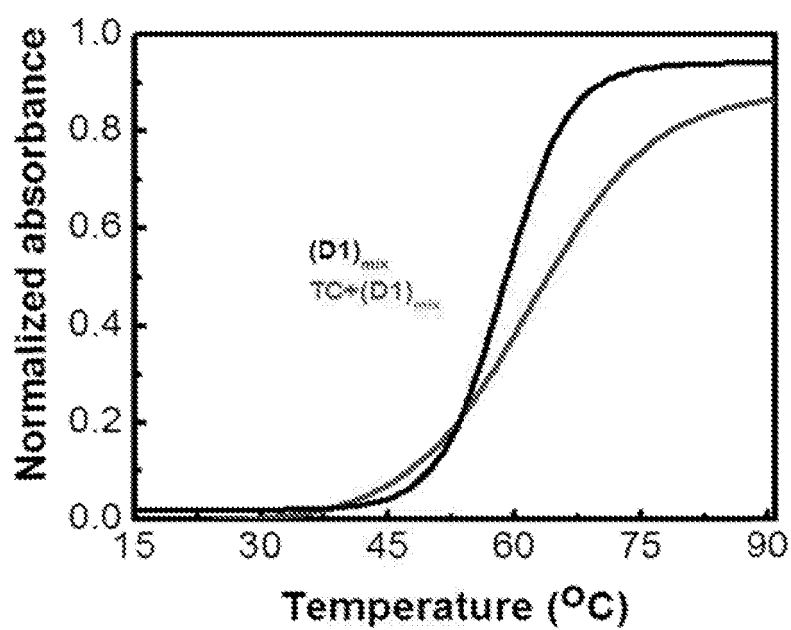
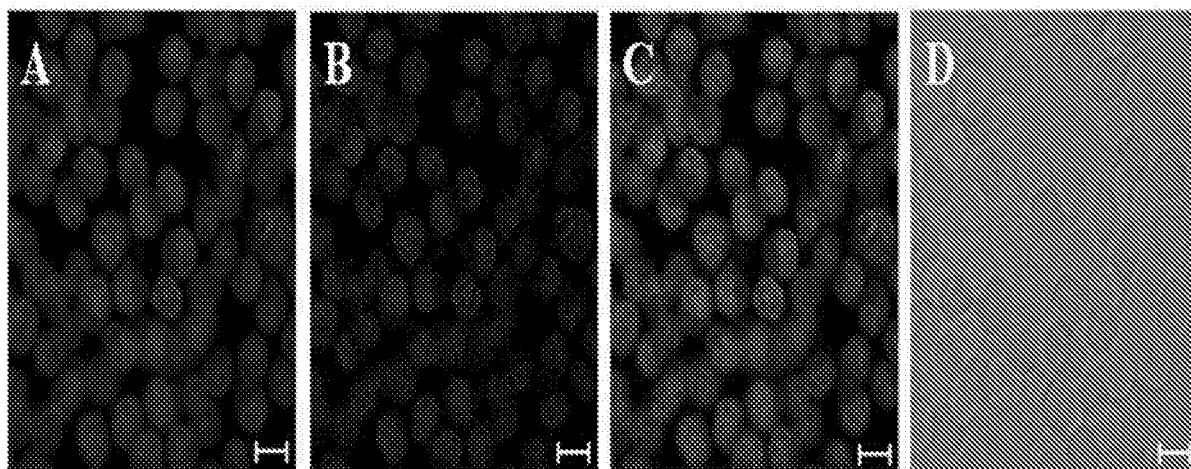
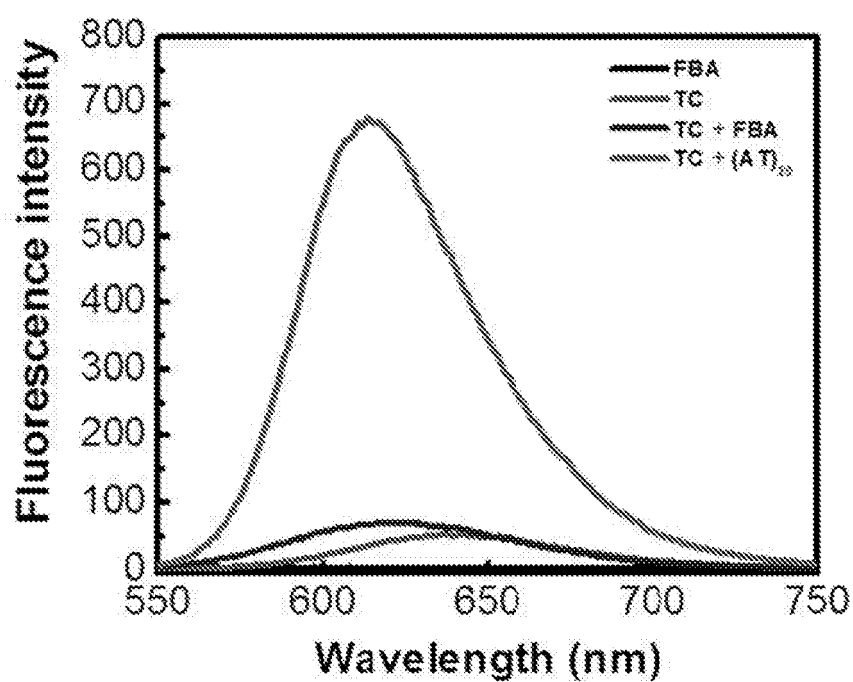
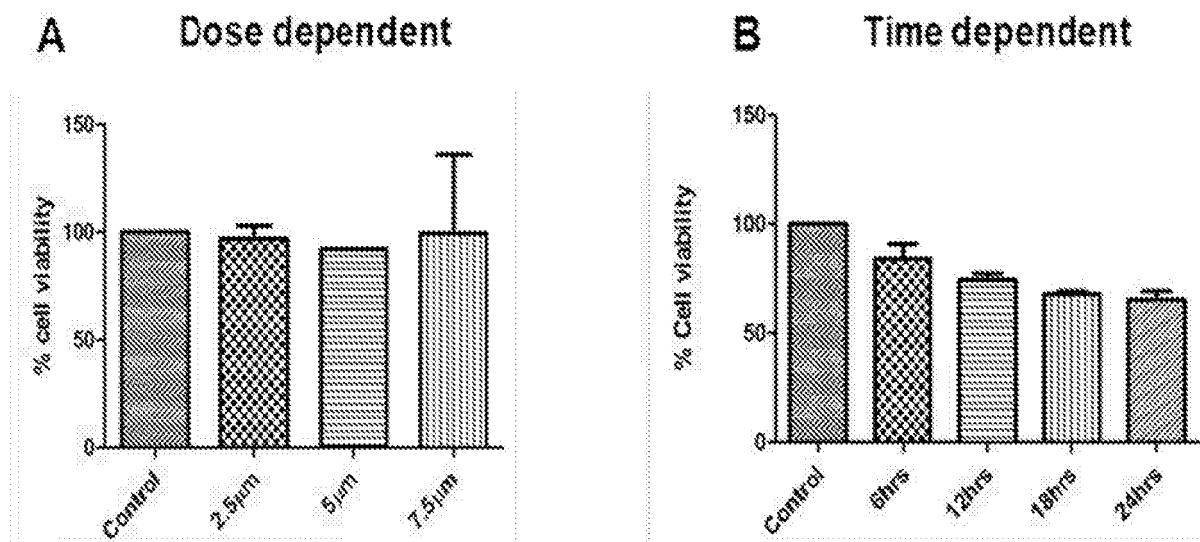


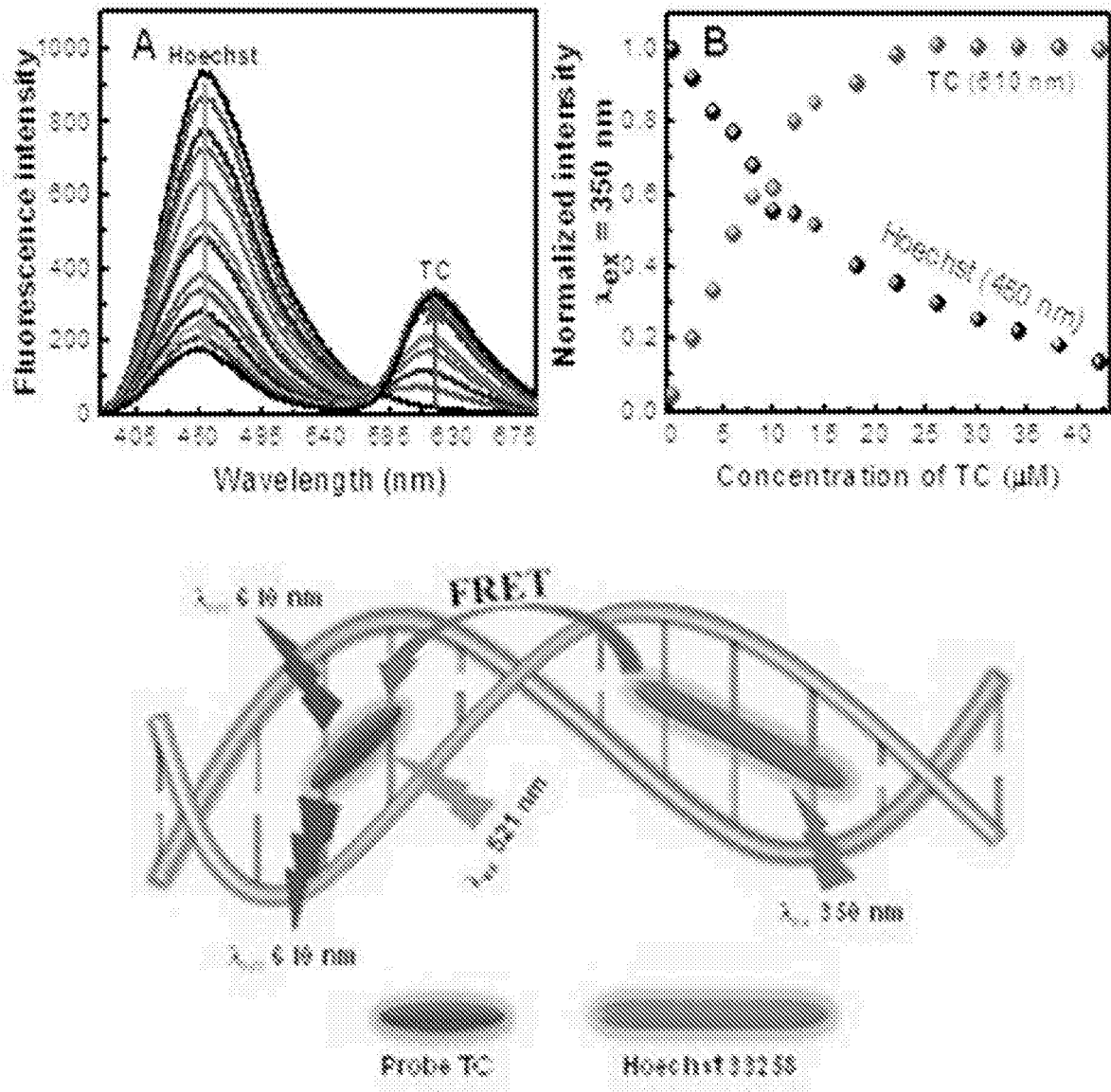
FIGURE 10

**FIGURE 11****FIGURE 12**

**FIGURE 13****FIGURE 14**

**FIGURE 15****FIGURE 16**

**FIGURE 17****FIGURE 18**

**FIGURE 19**

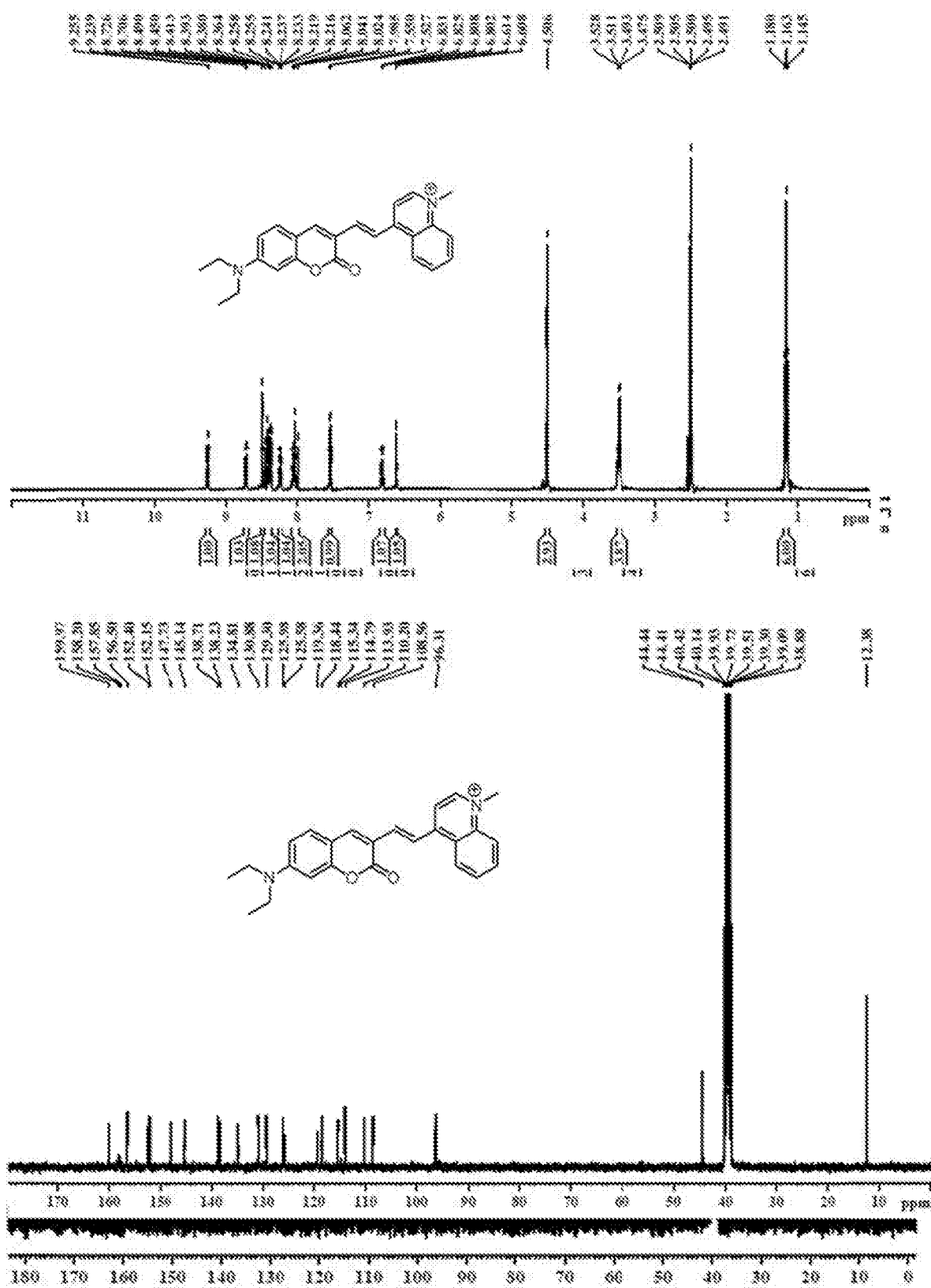


FIGURE 20

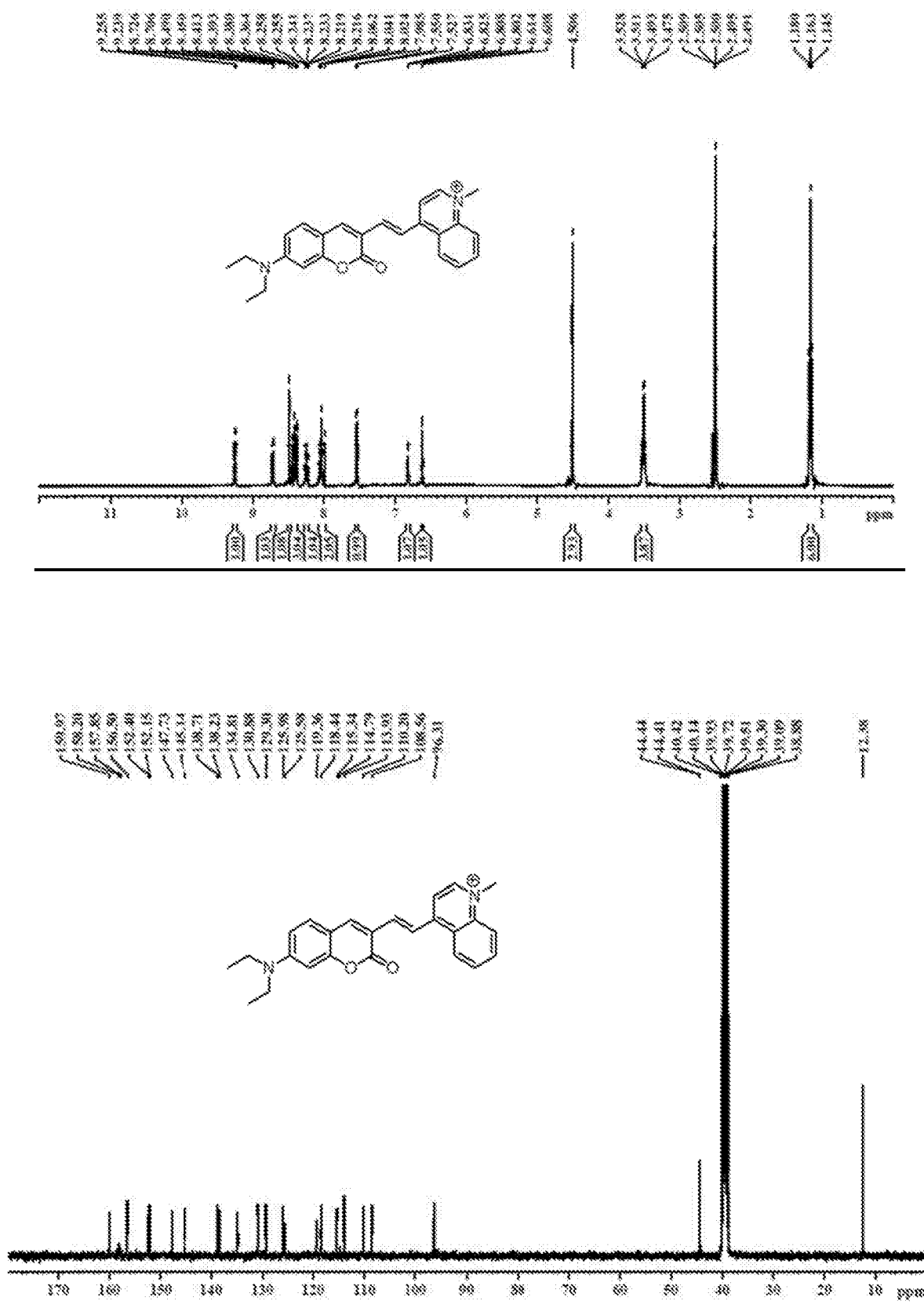
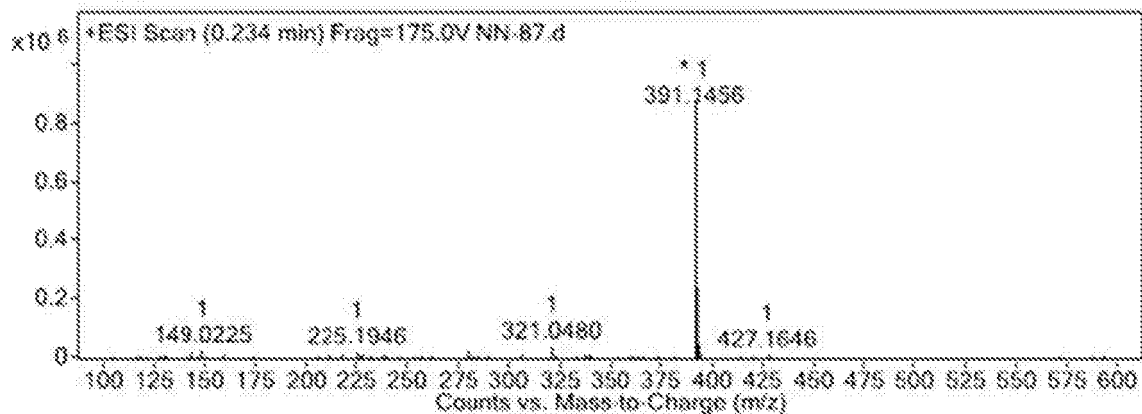
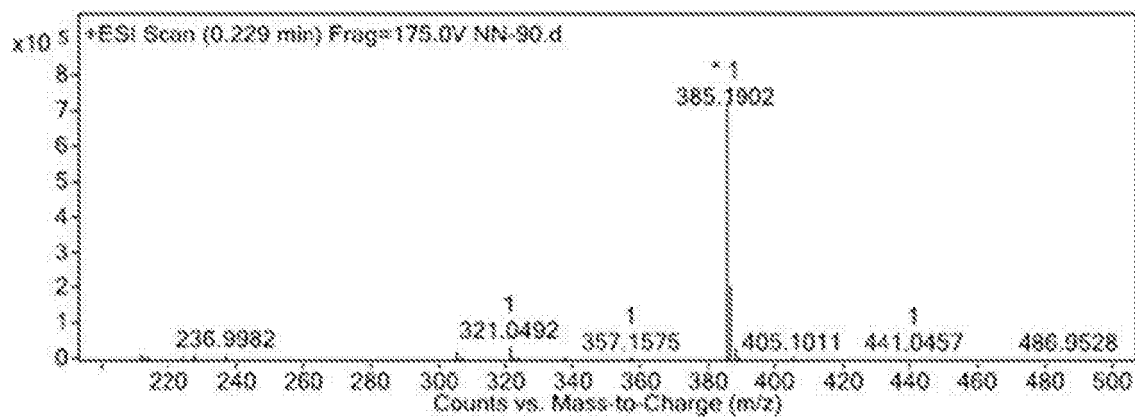
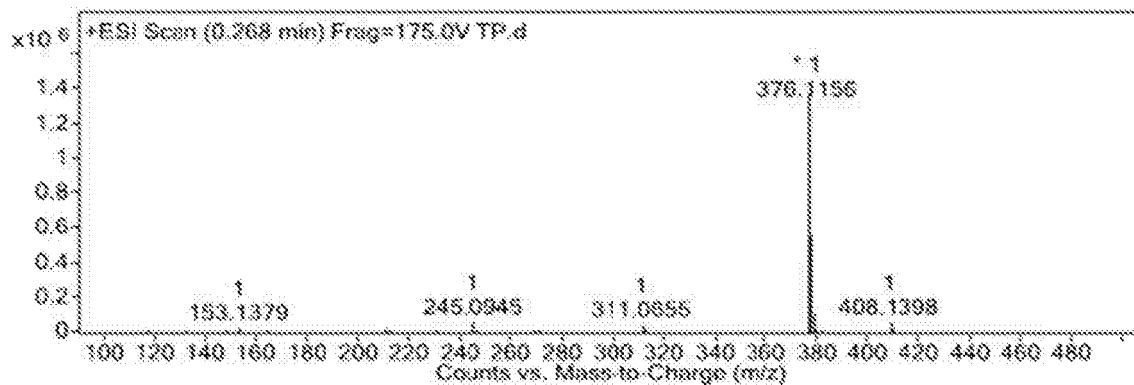


FIGURE 21

**FIGURE 23****FIGURE 24****FIGURE 25**

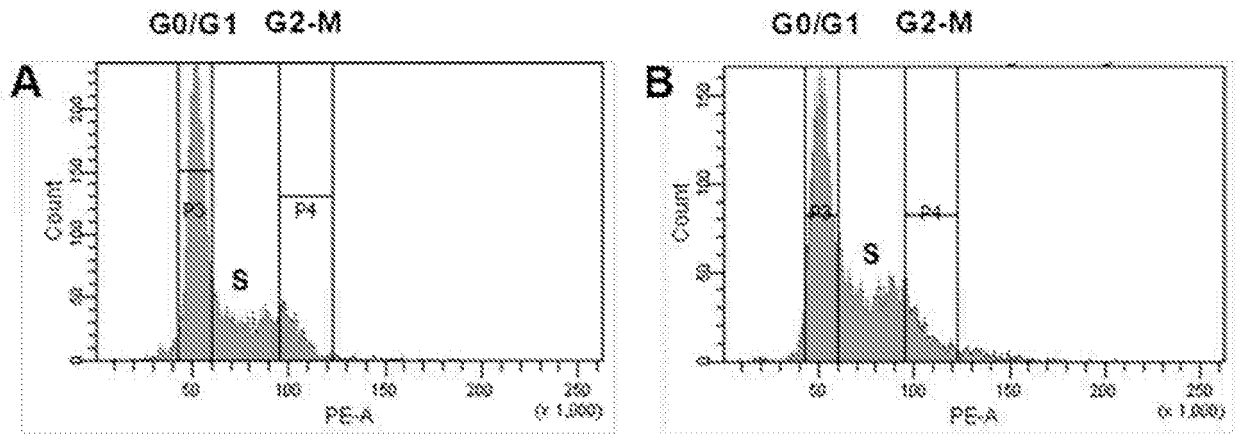


FIGURE 26

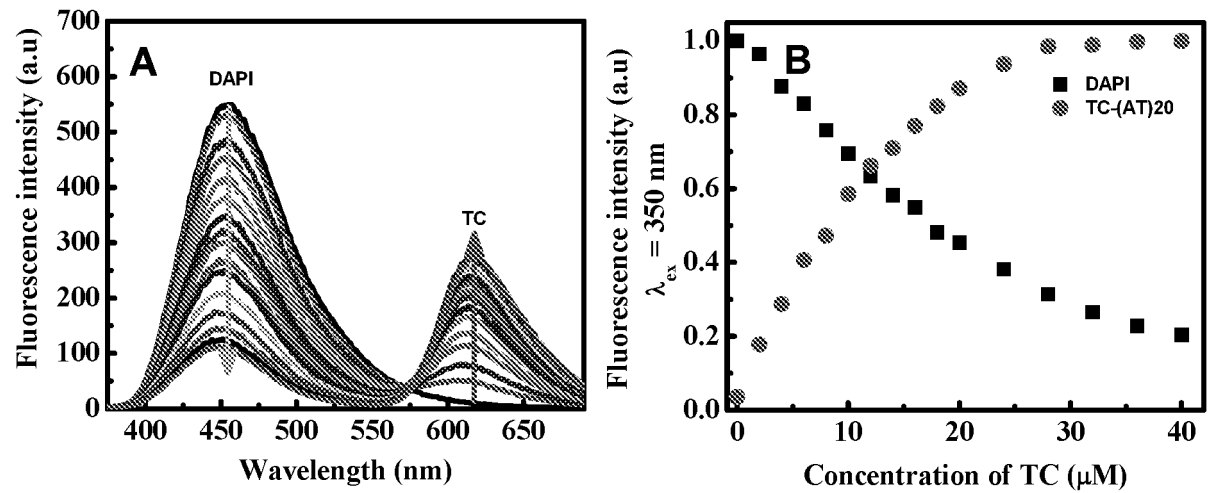
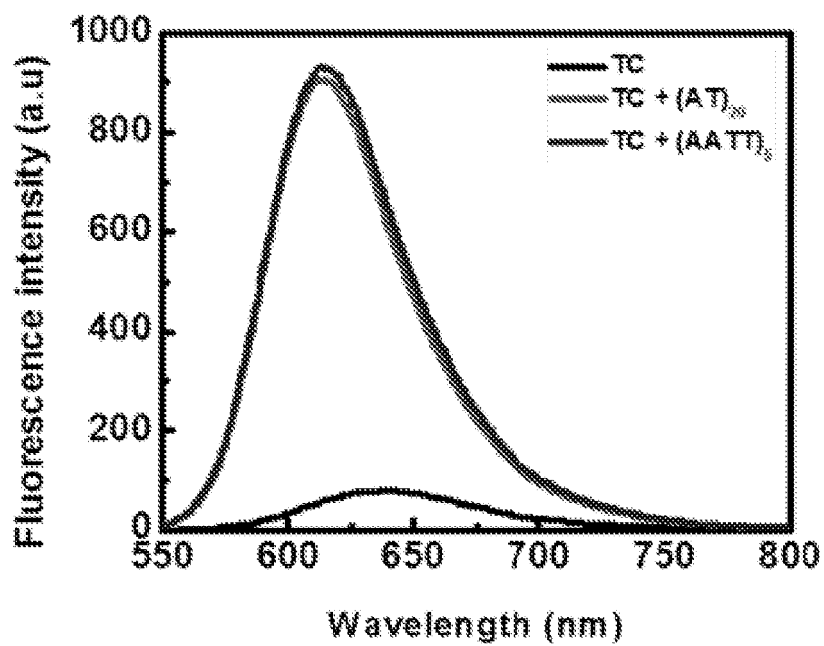
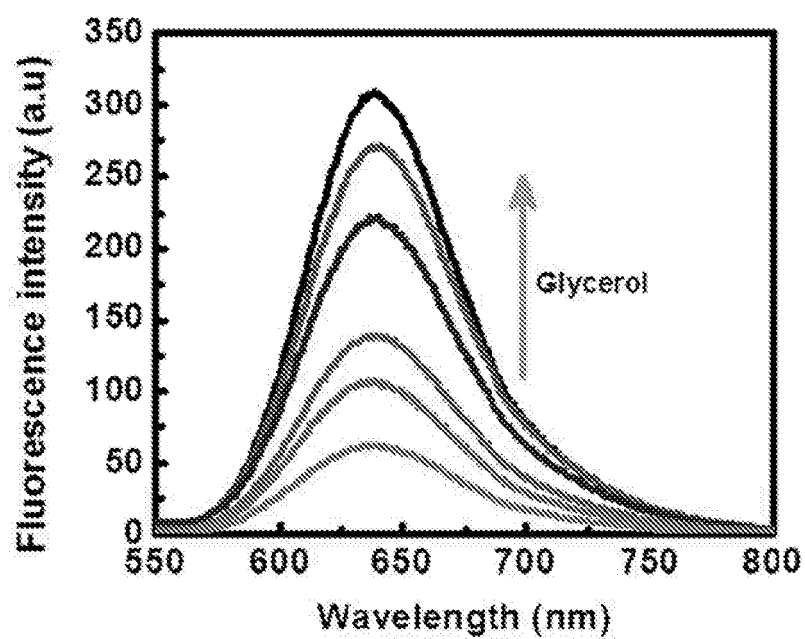


FIGURE 27

**FIGURE 28****FIGURE 29**

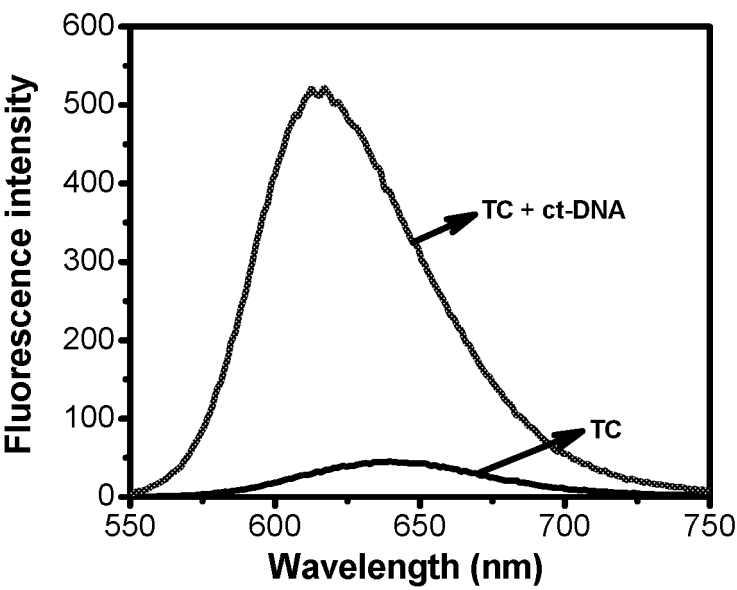


FIGURE 30

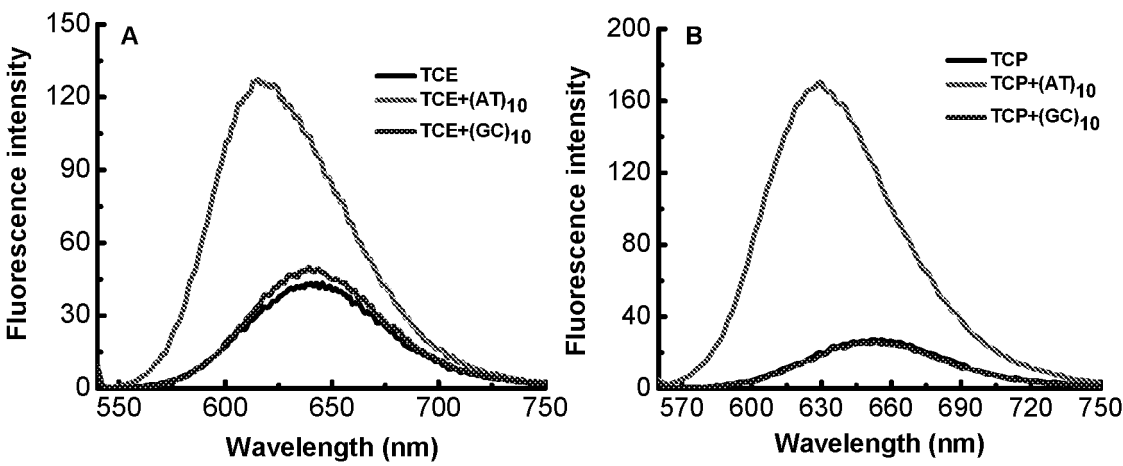
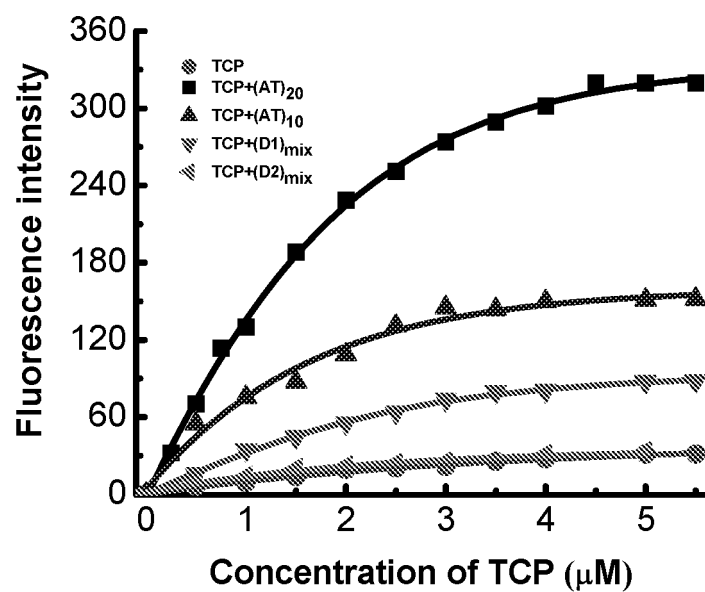
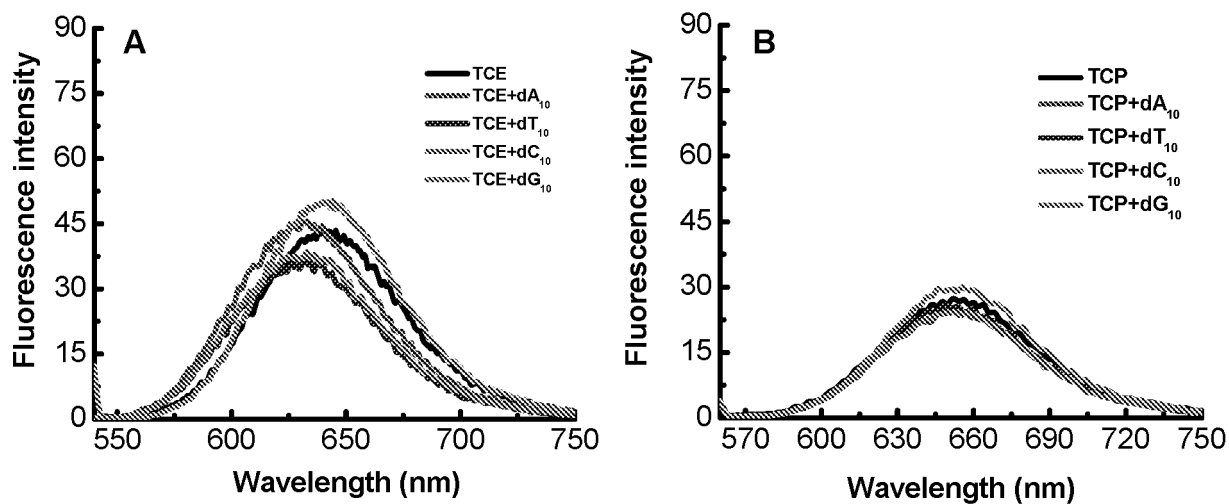
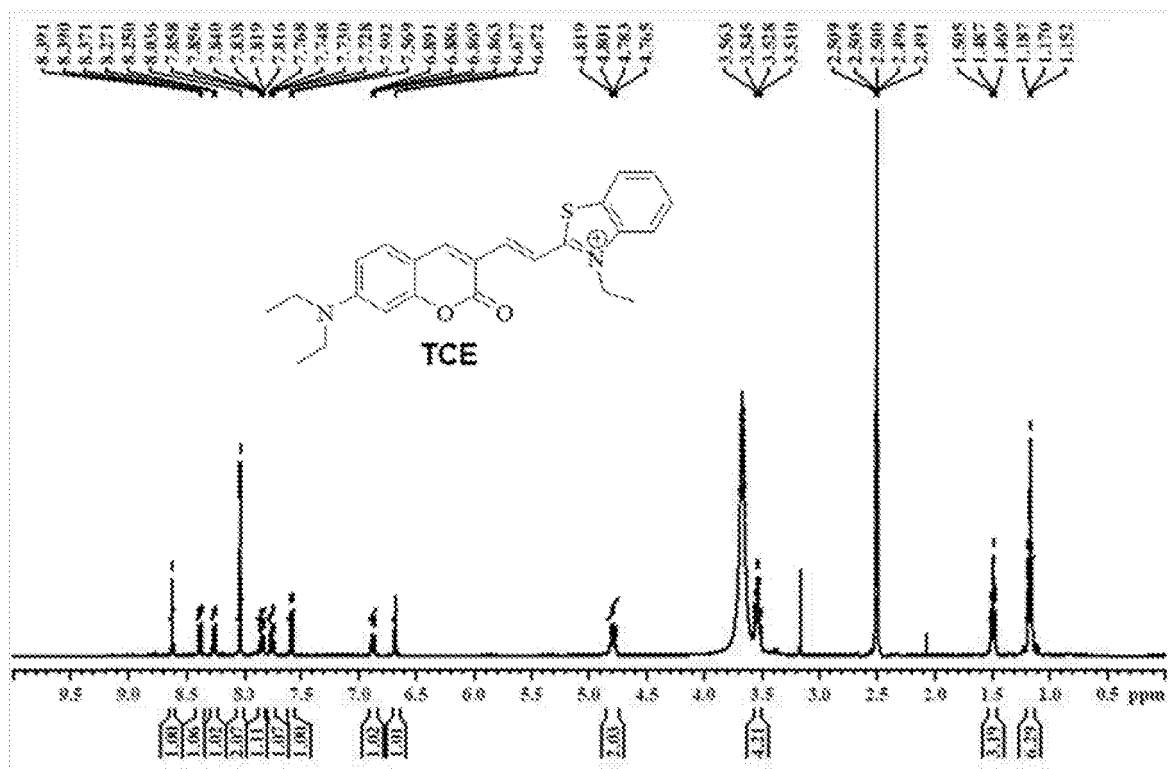
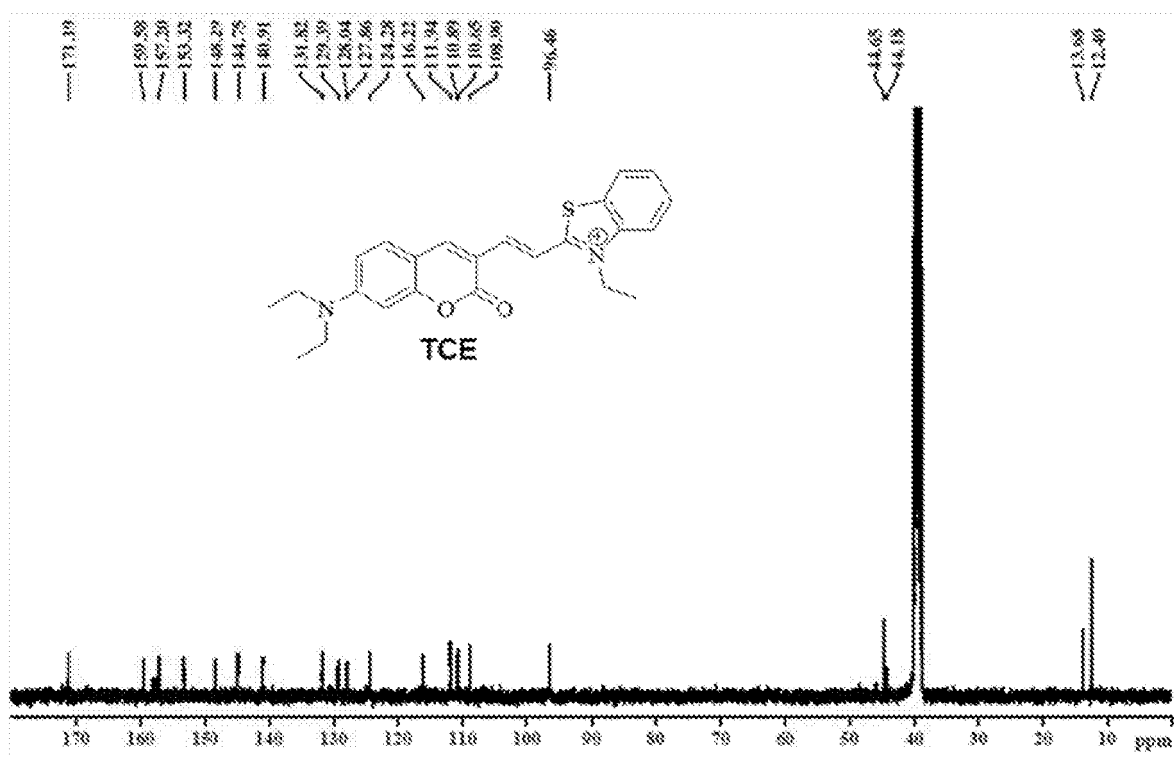


FIGURE 31

**FIGURE 32****FIGURE 33**

**FIGURE 34****FIGURE 35**

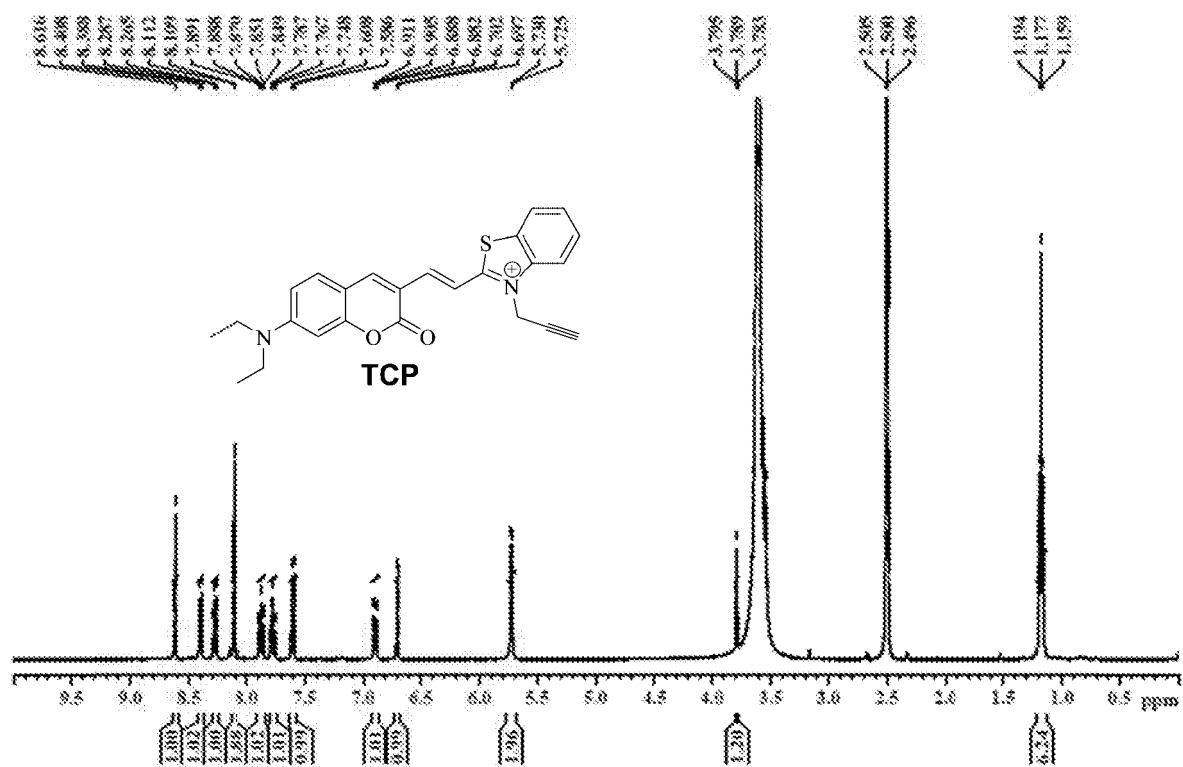


FIGURE 36

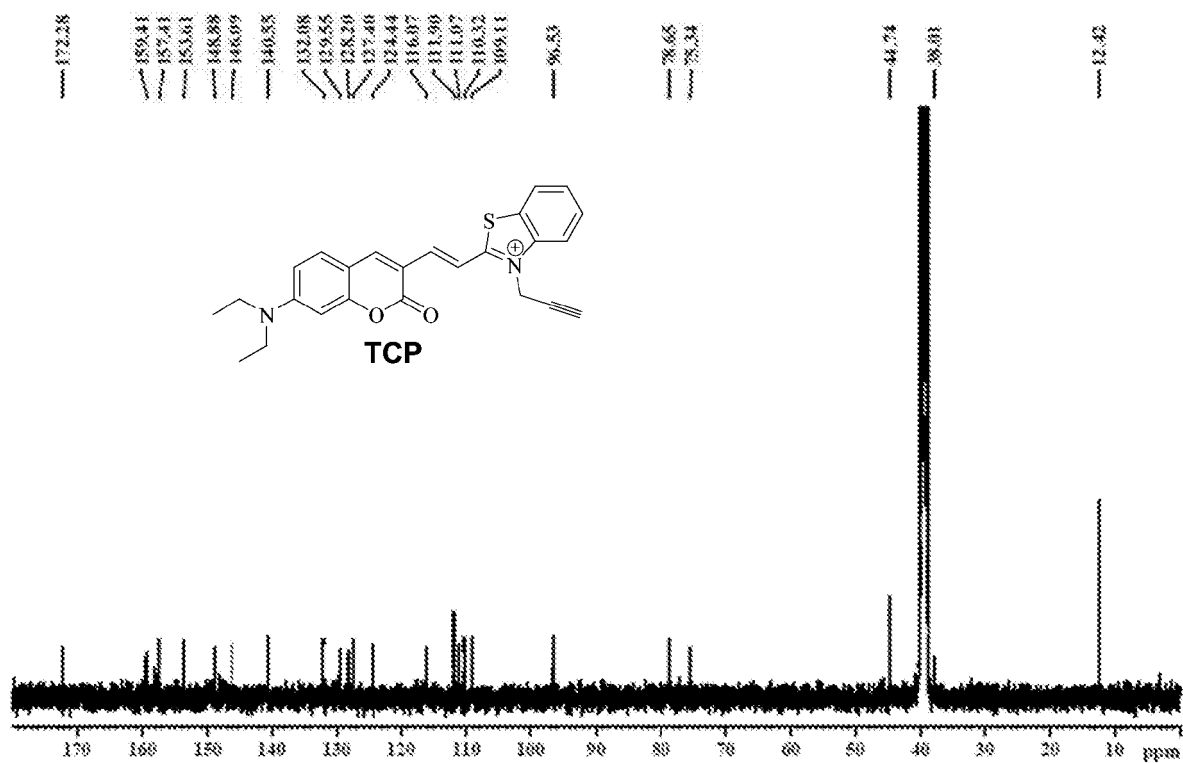


FIGURE 37

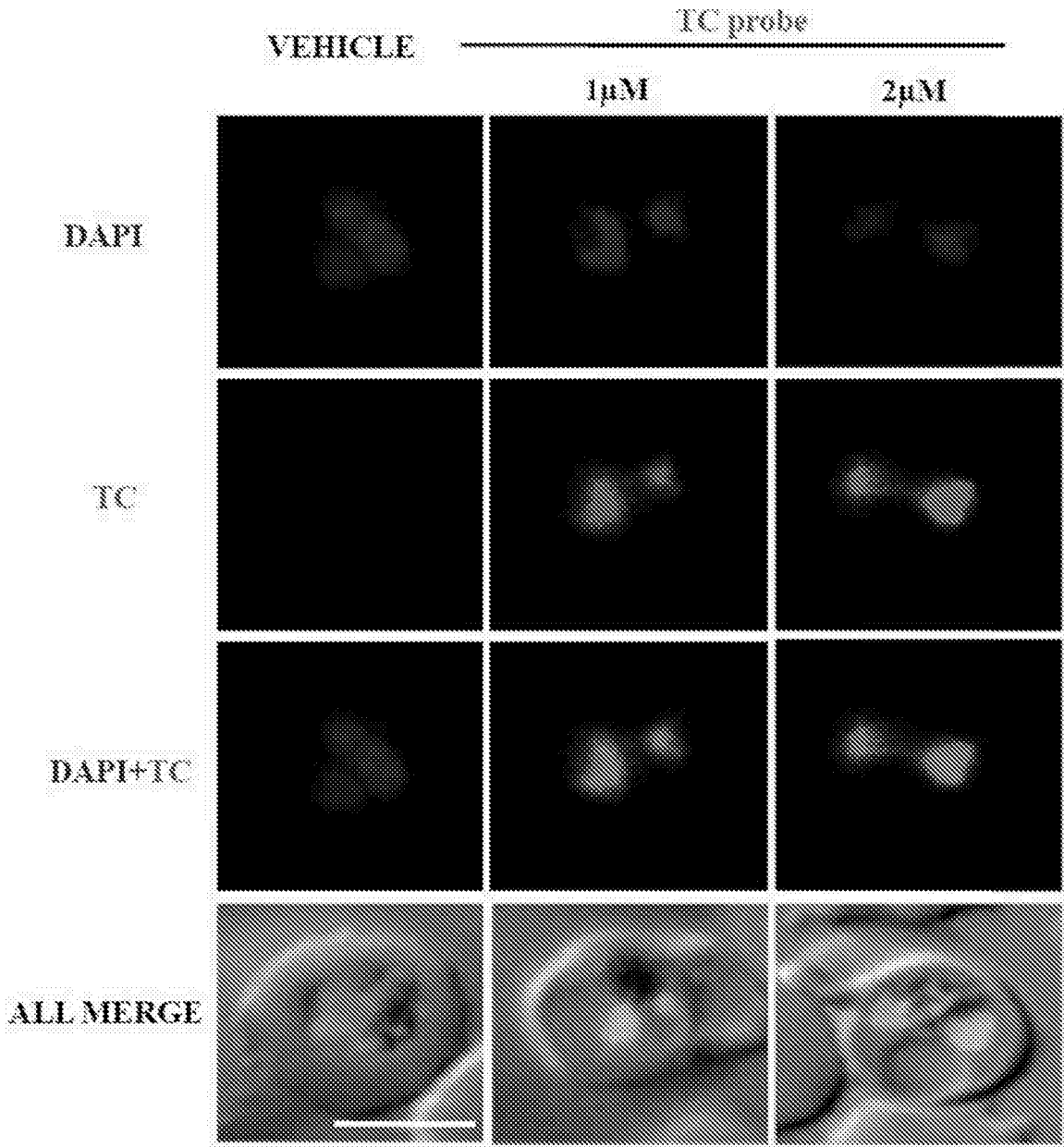
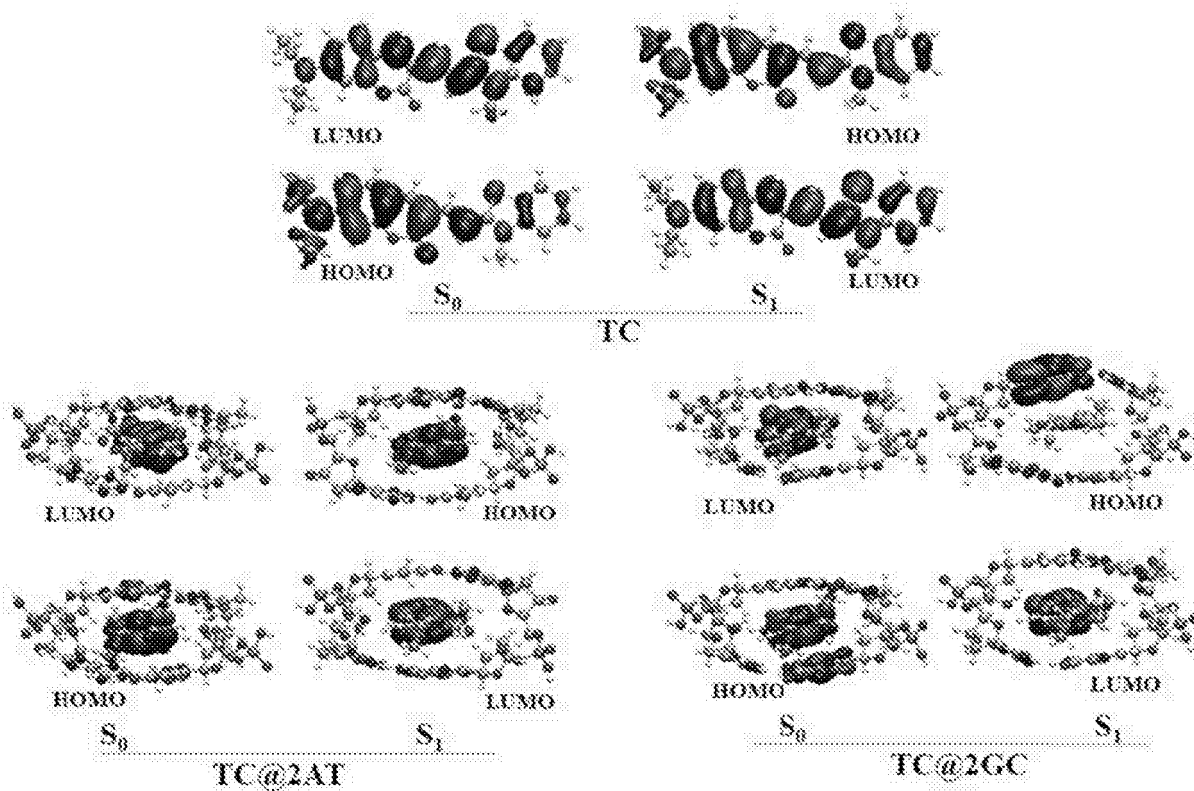
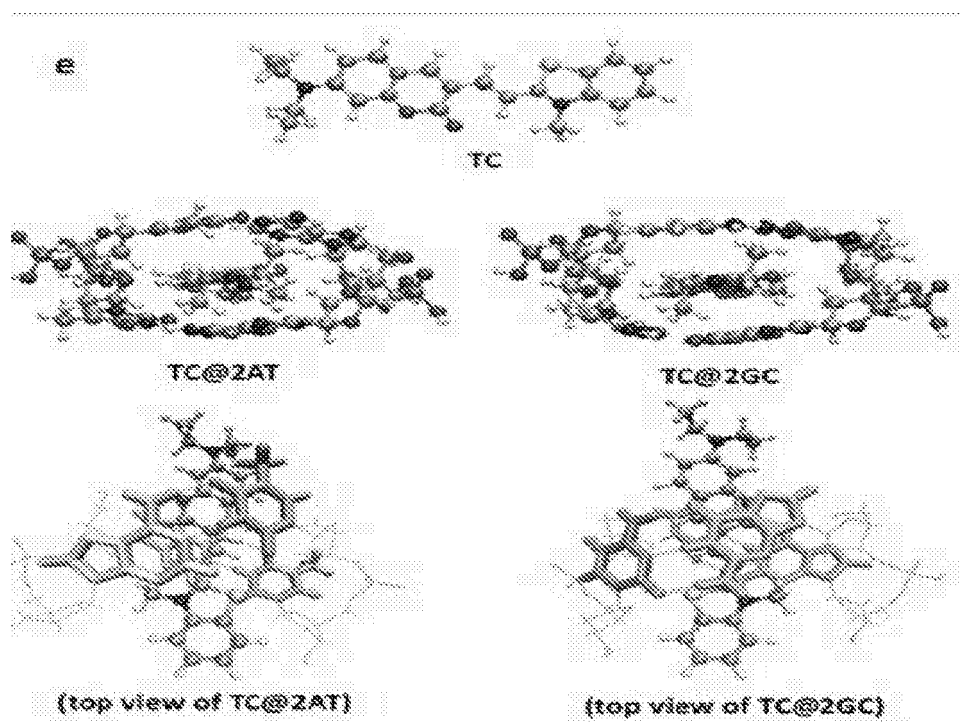
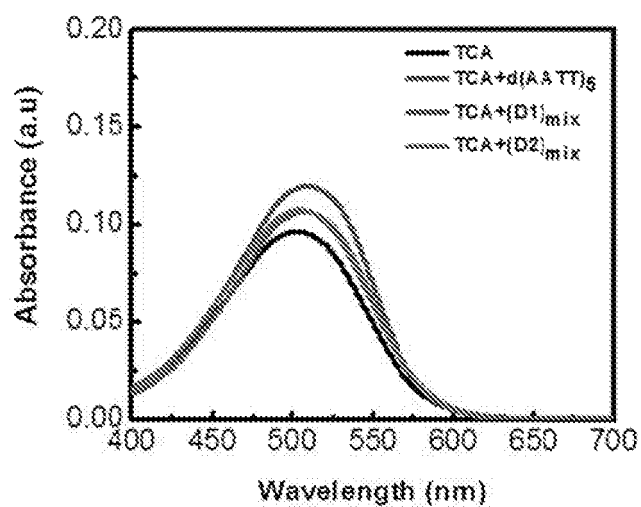
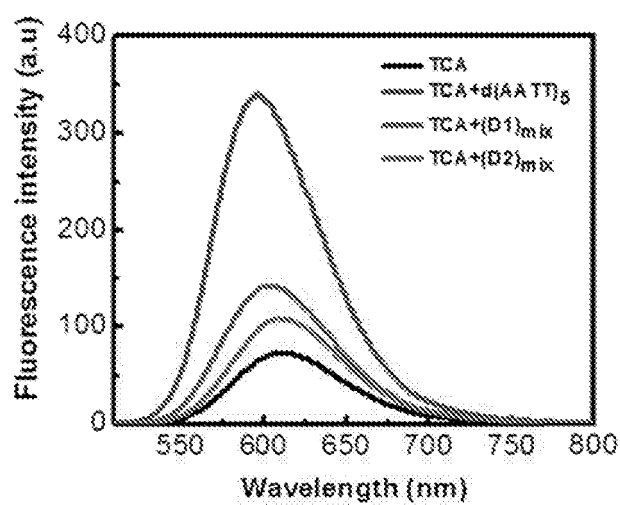
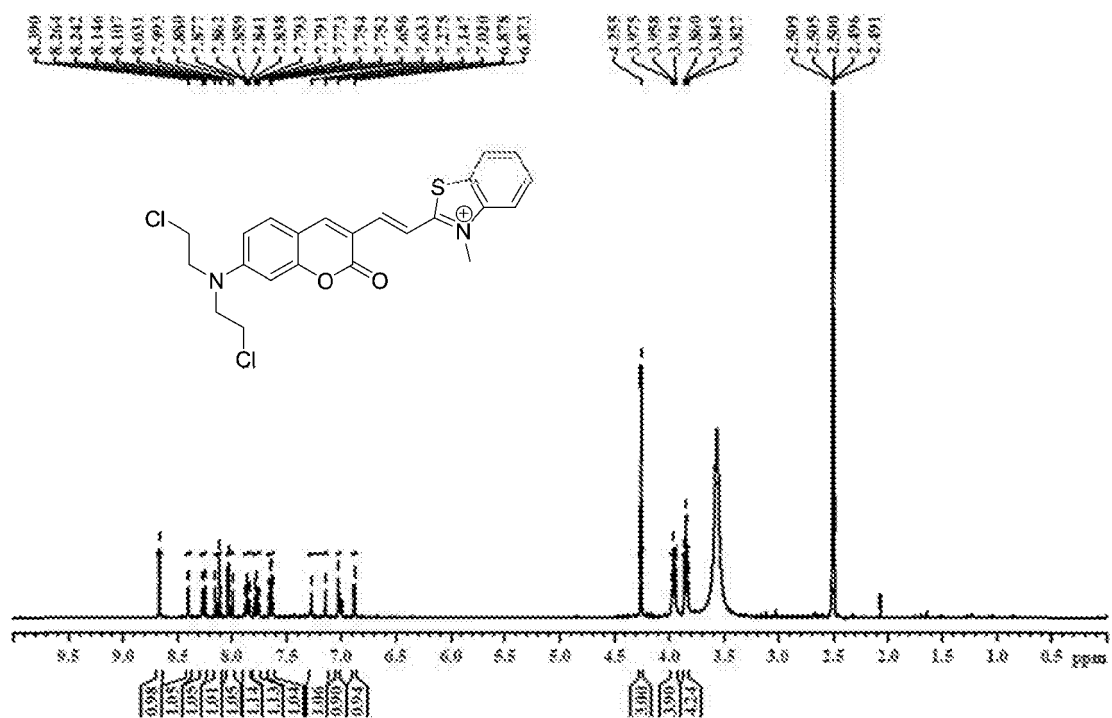
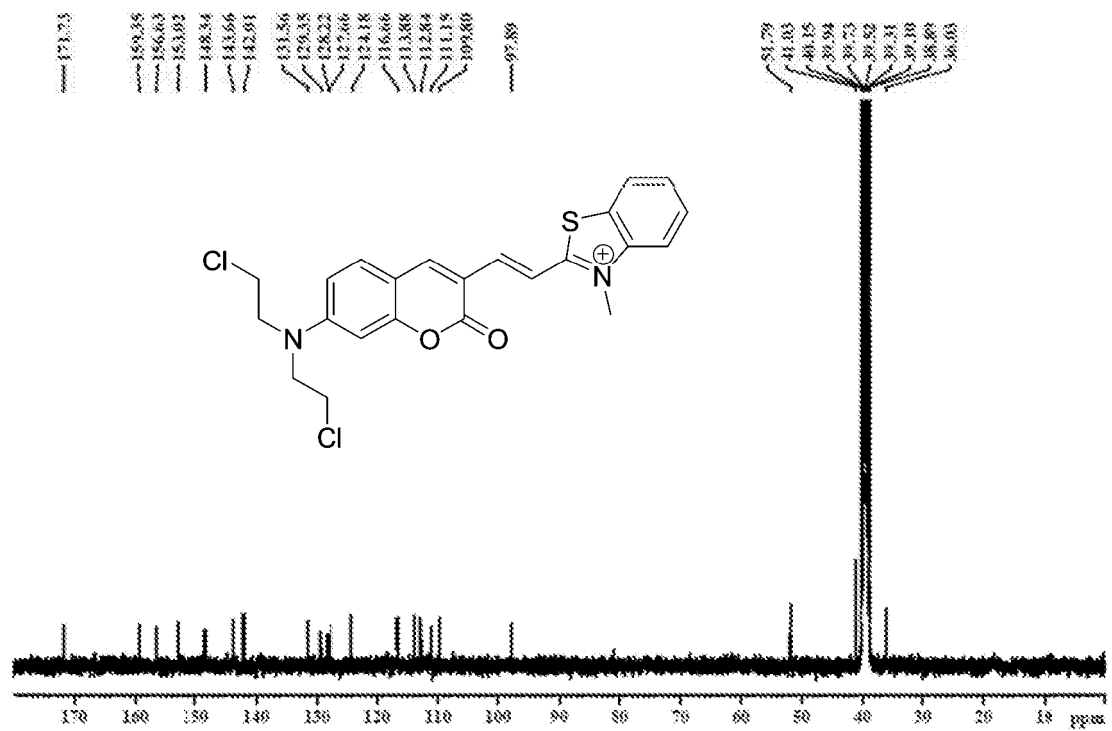


FIGURE 38

**FIGURE 39 A****FIGURE 39 B**

**FIGURE 40****FIGURE 41**

**FIGURE 42****FIGURE 43**

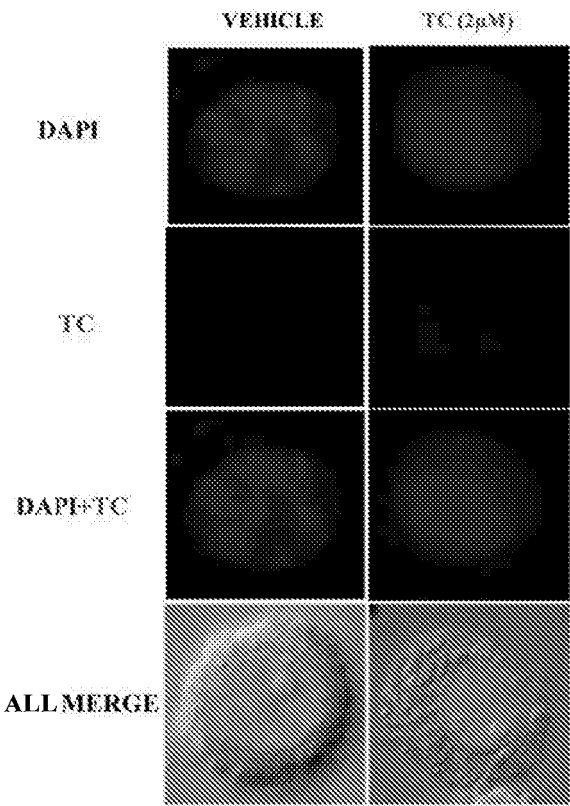


FIGURE 44

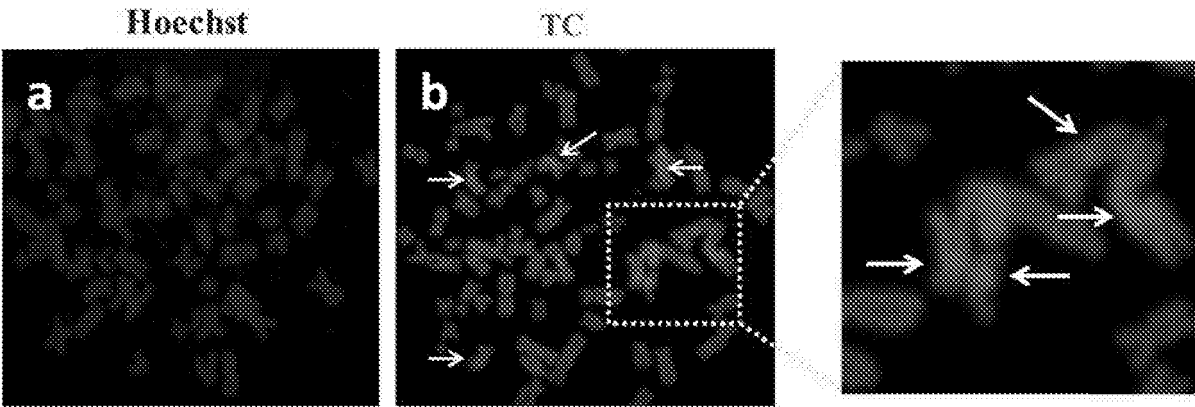
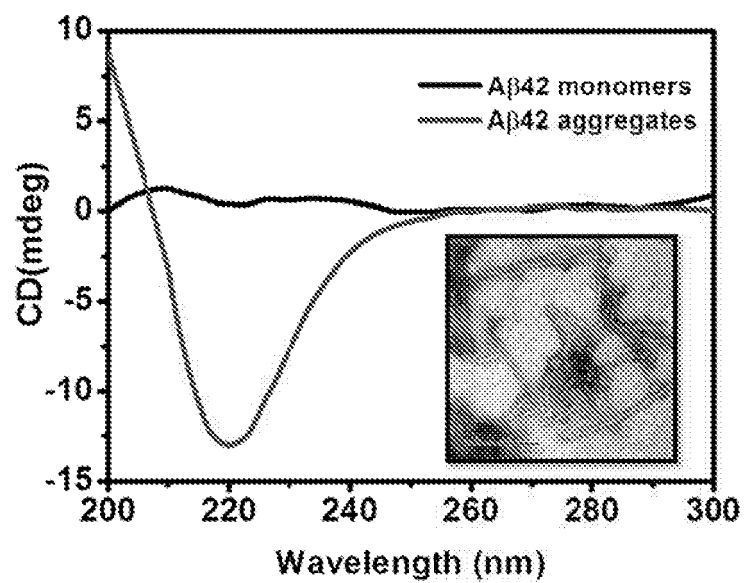
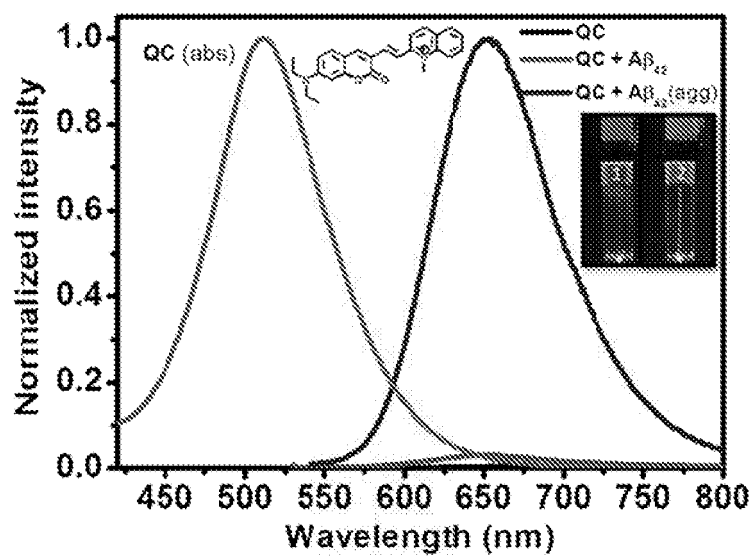


FIGURE 45

**FIGURE 46****FIGURE 47**

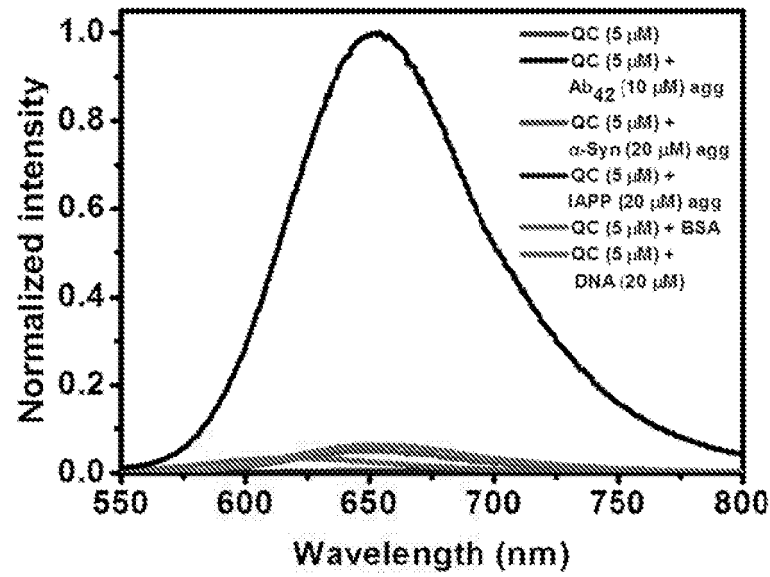


FIGURE 48

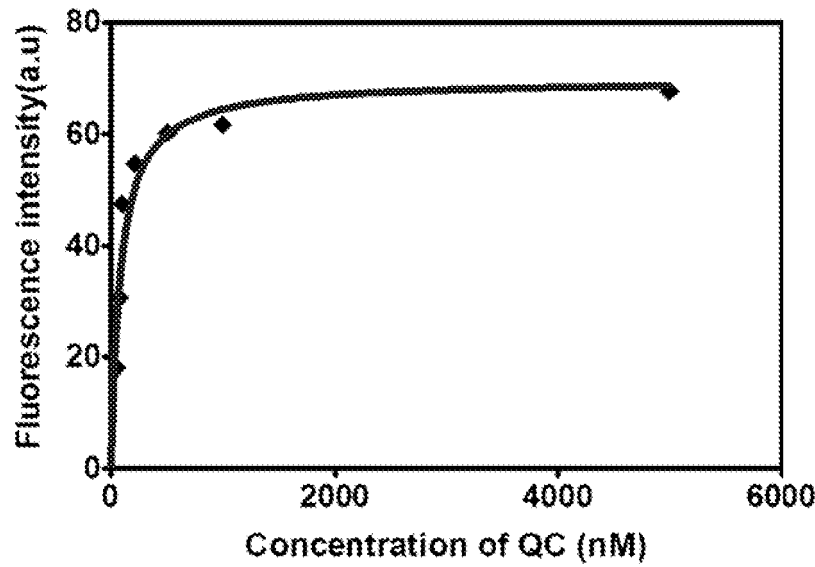
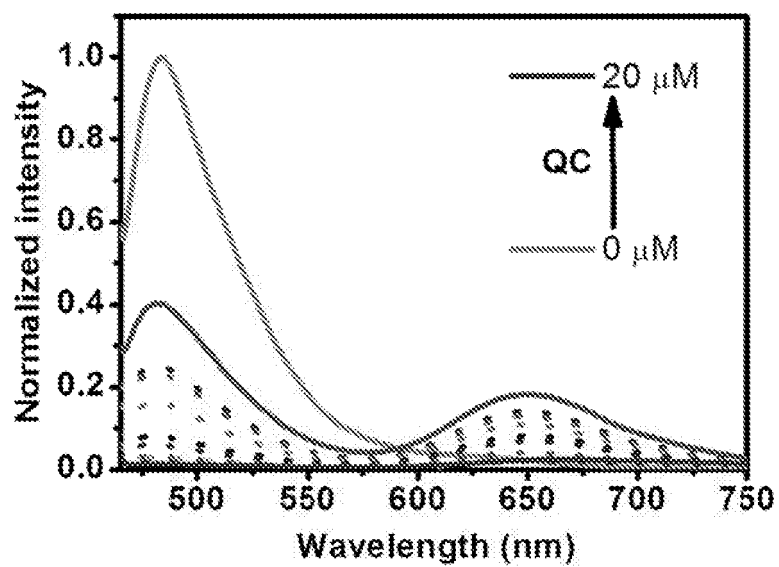
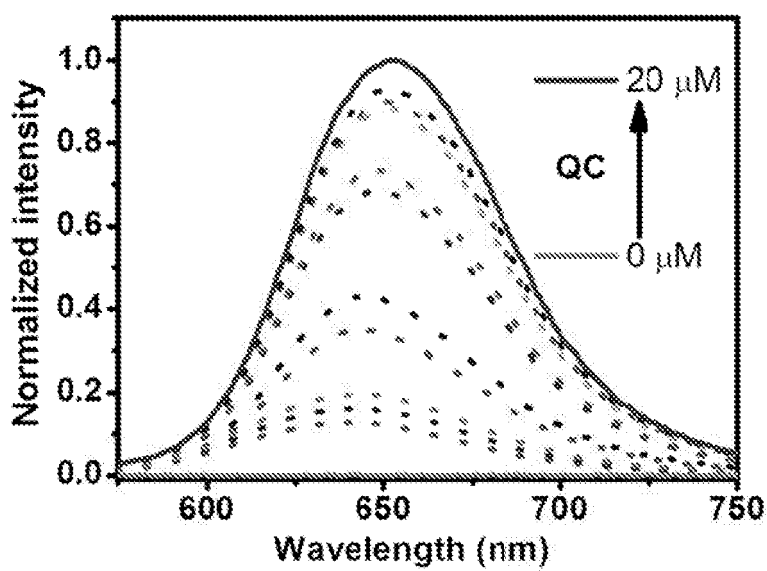
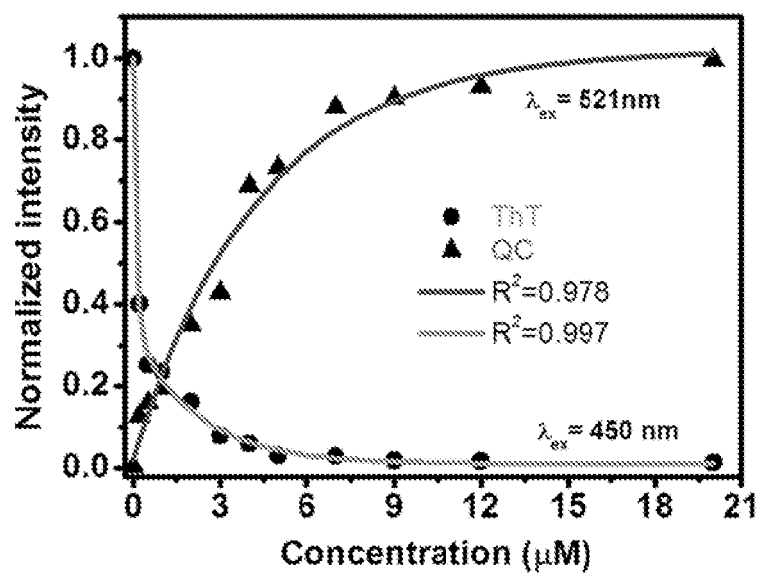
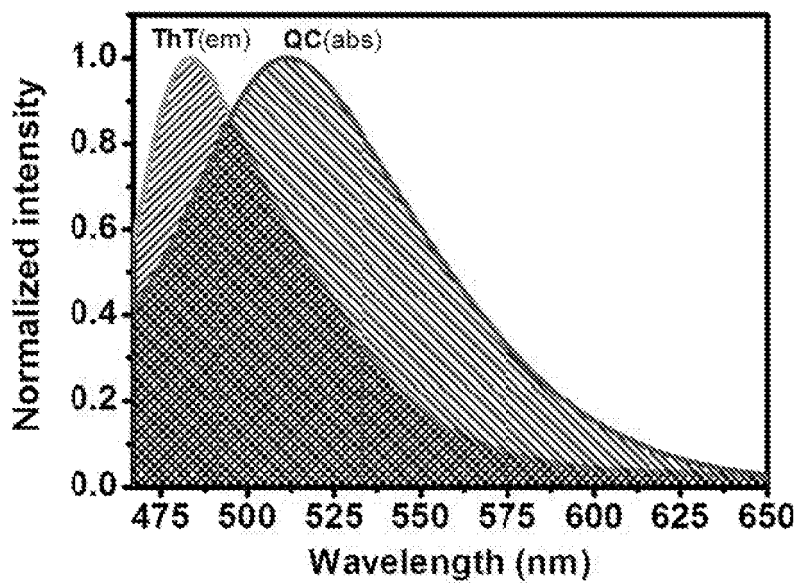
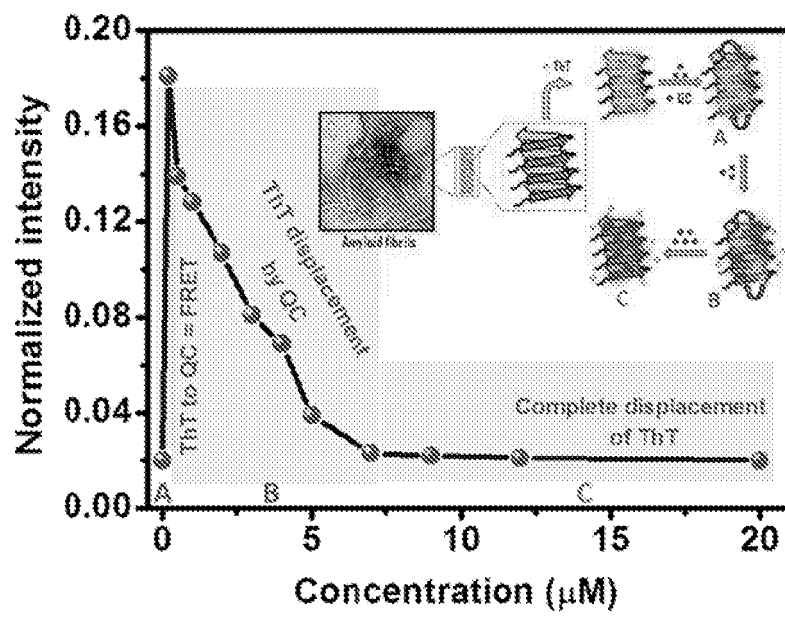
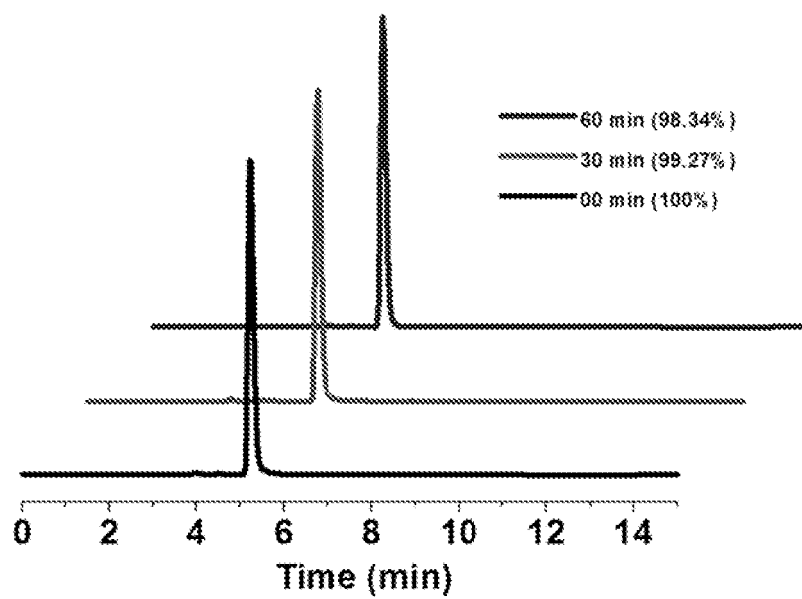


FIGURE 49

**FIGURE 50****FIGURE 51**

**FIGURE 52****FIGURE 53**

**FIGURE 54****FIGURE 55**

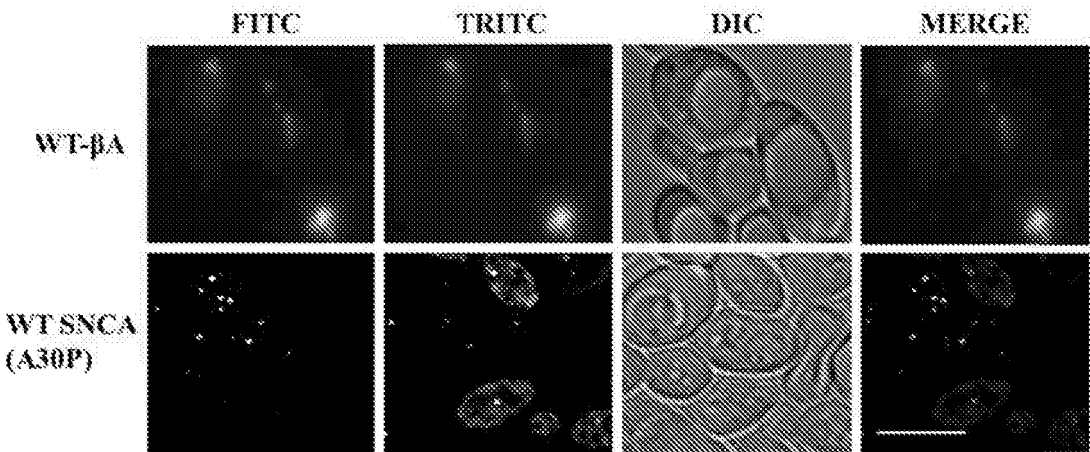


FIGURE 56

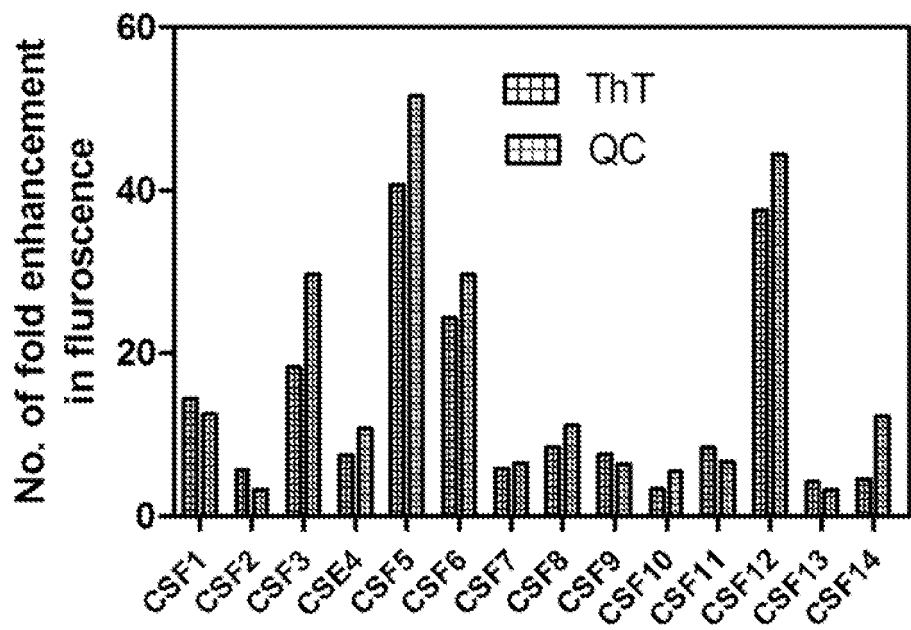
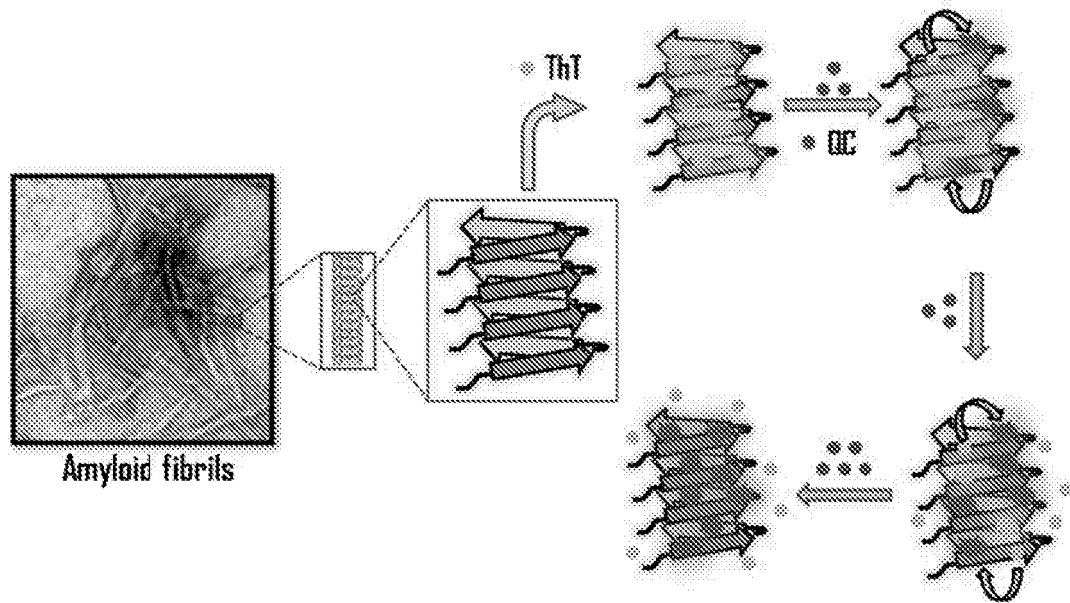


FIGURE 57

**FIGURE 58**

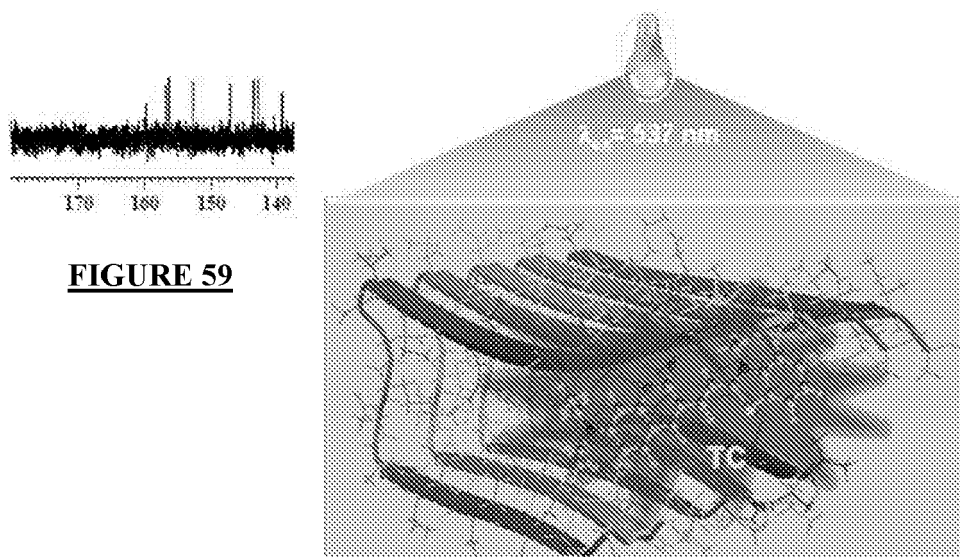
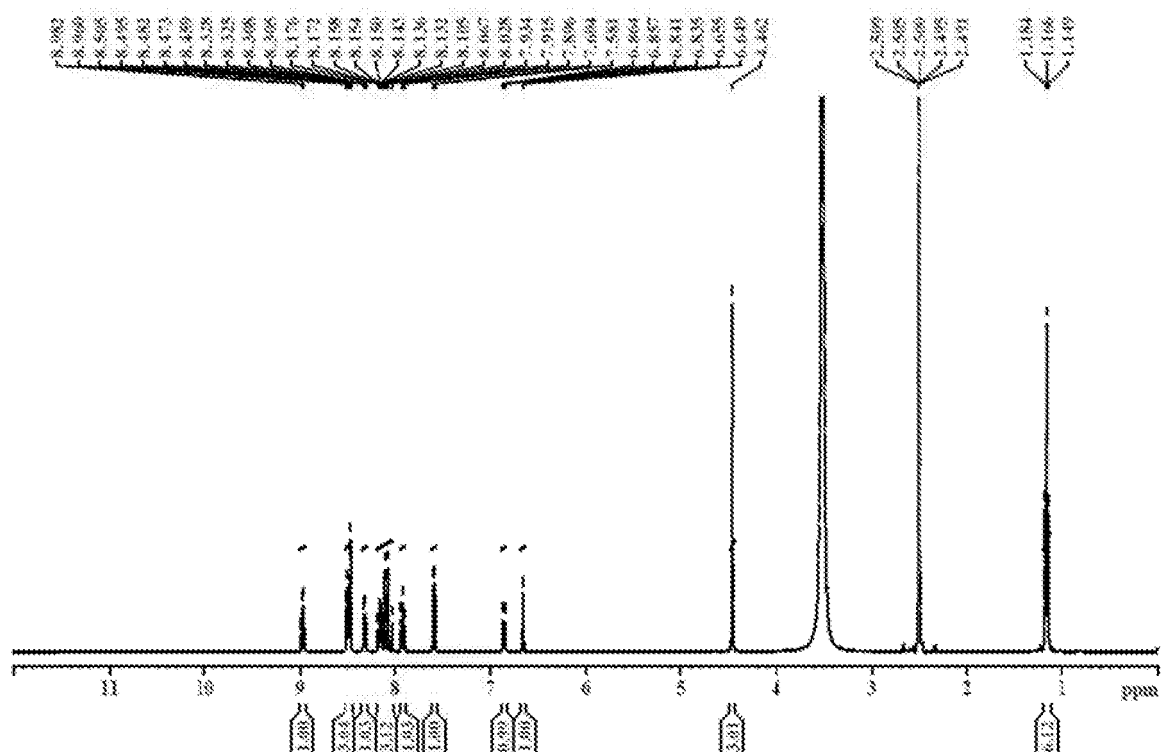
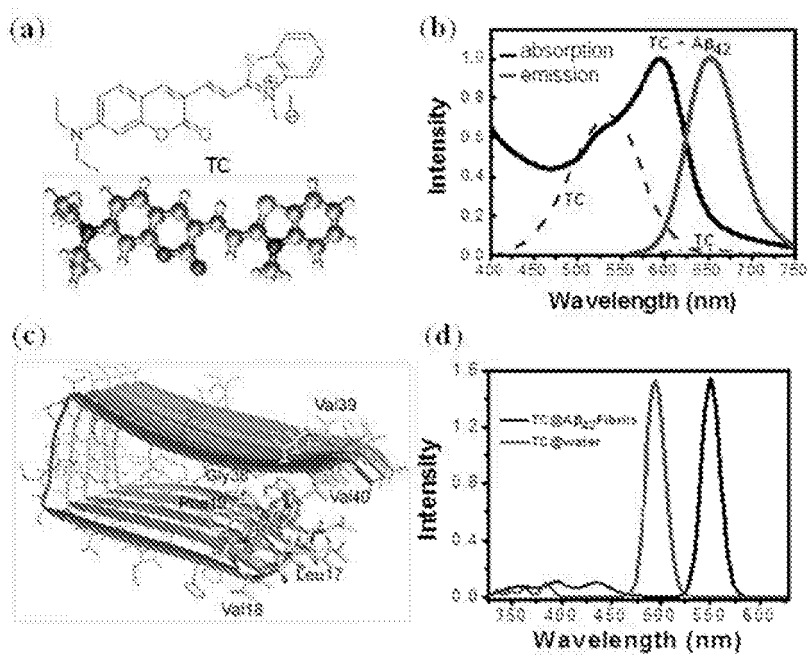


FIGURE 59

FIGURE 60**FIGURE 61**

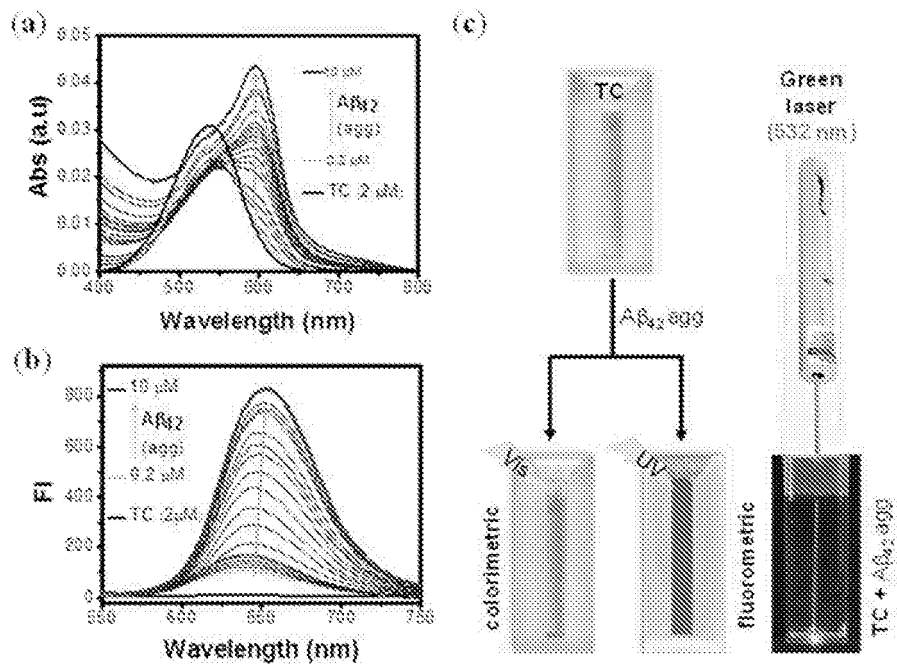


FIGURE 62

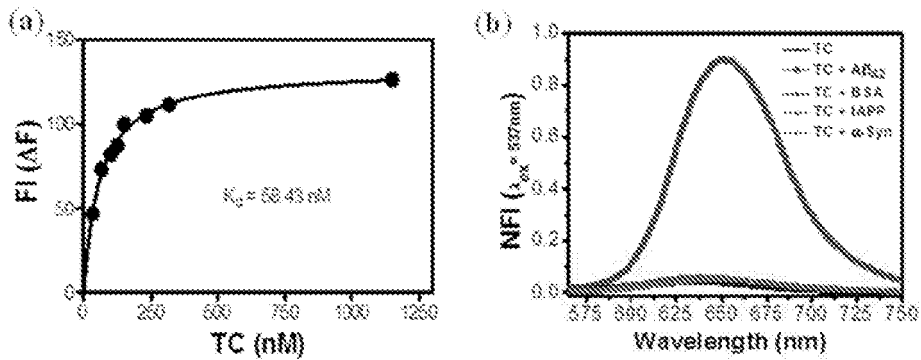


FIGURE 63

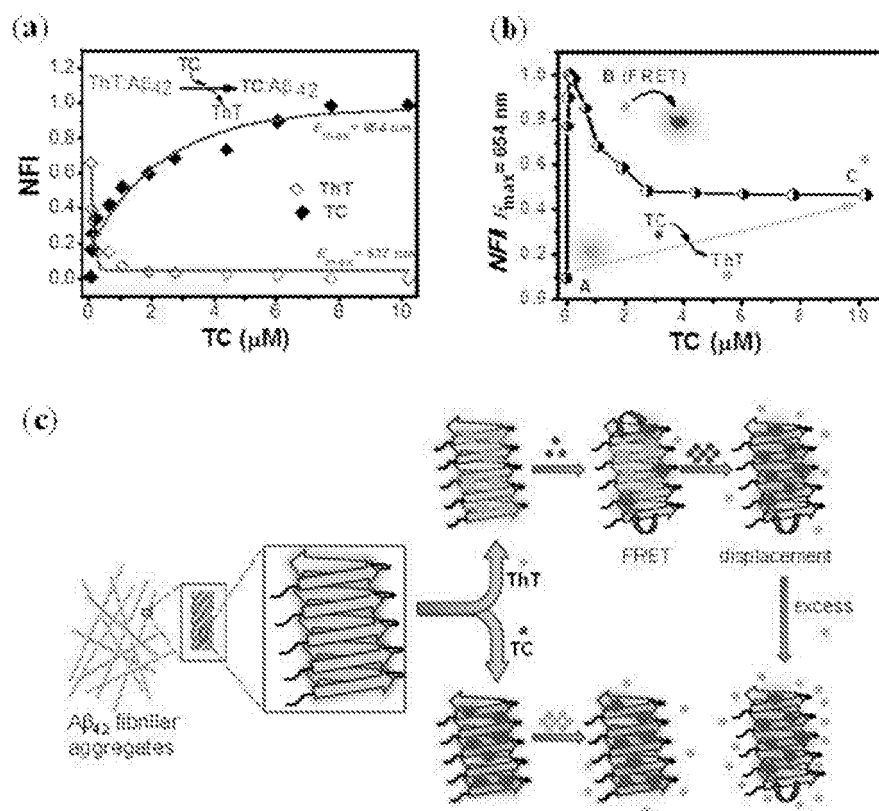
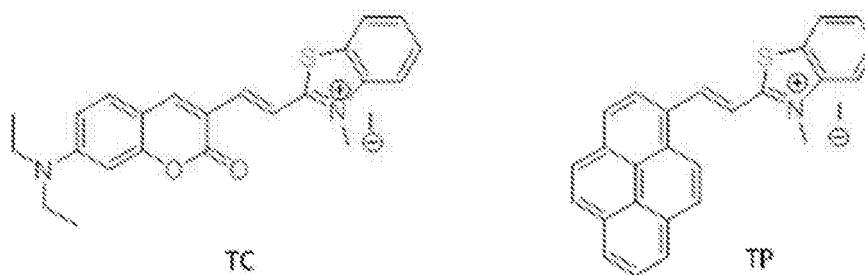
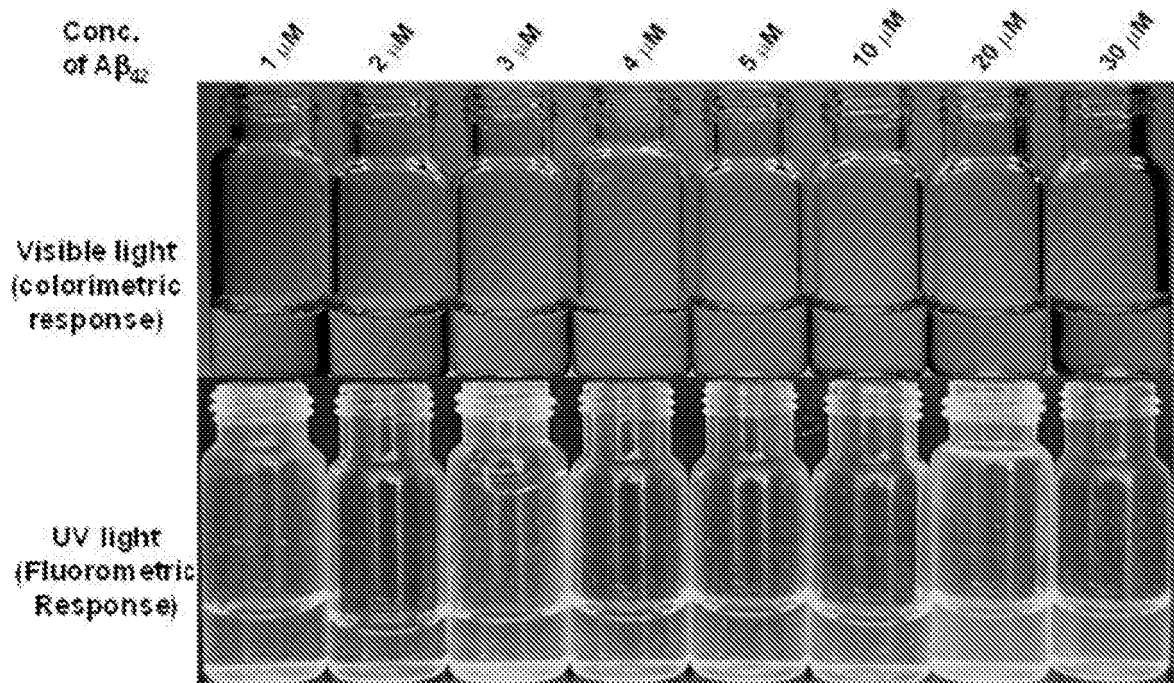
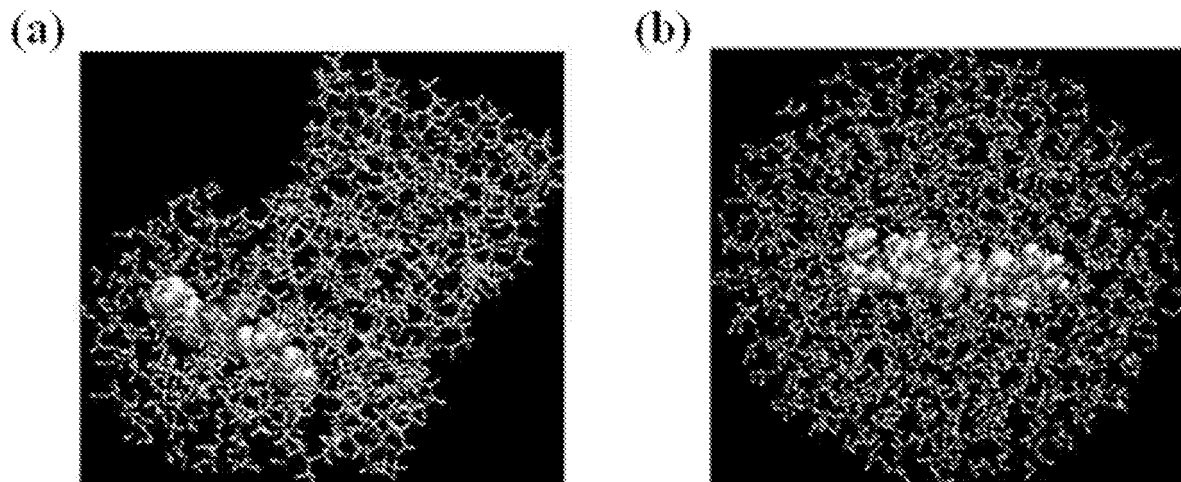


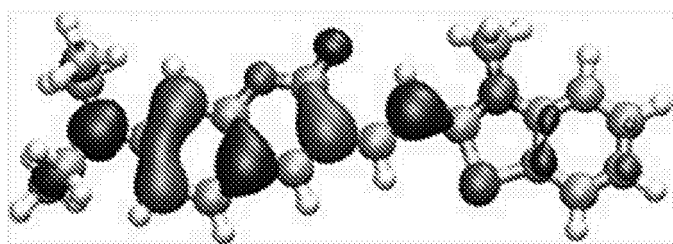
FIGURE 64



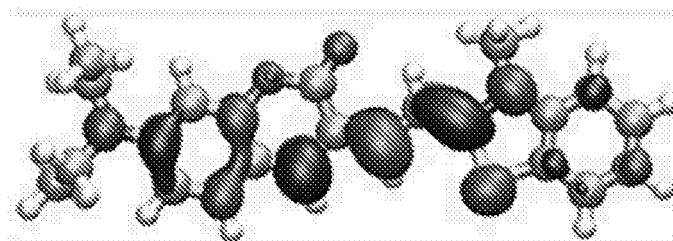
Probe	Absorption maxima		Emission maxima		Molecular weight	logP	Hydrogen bond donor	Hydrogen bond acceptor
	without A β ₄₂	with A β ₄₂	without A β ₄₂	with A β ₄₂				
TC	537 nm	595 nm	638 nm	654 nm	391.14	3.2	3	1
TP	460 nm	462 nm	623 nm	626 nm	376.11	6.0	1	0

FIGURE 65

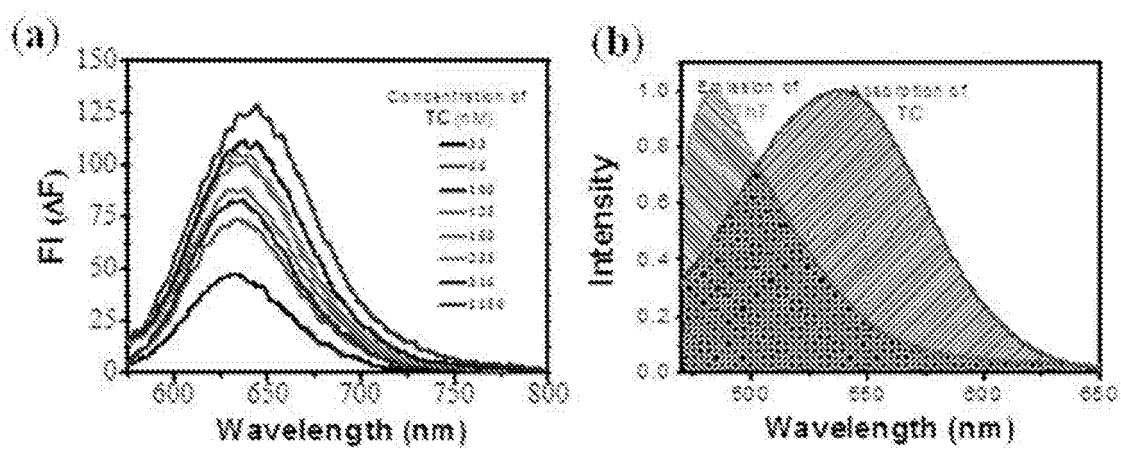
**FIGURE 66****FIGURE 67**



HOMO



LUMO

FIGURE 68**FIGURE 69**

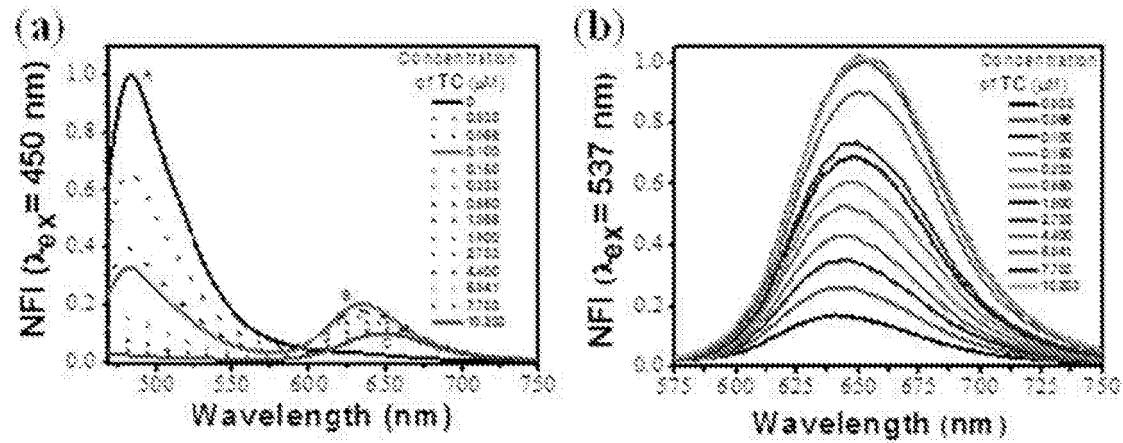


FIGURE 70

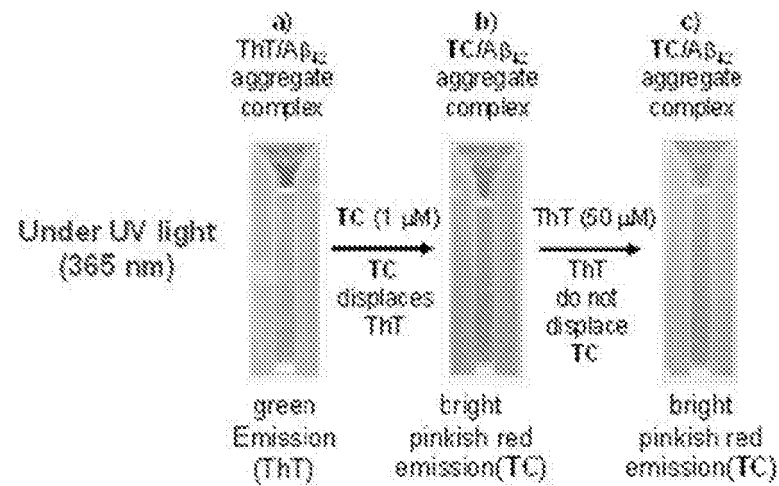
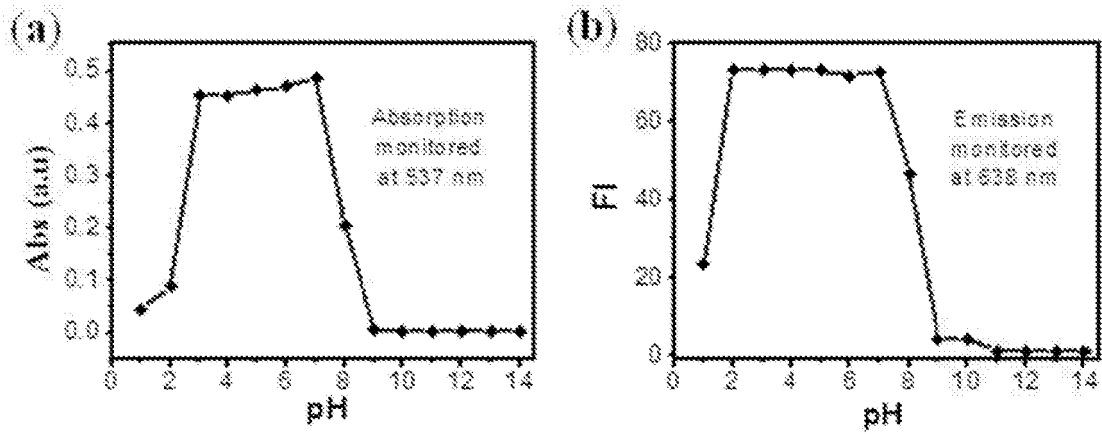
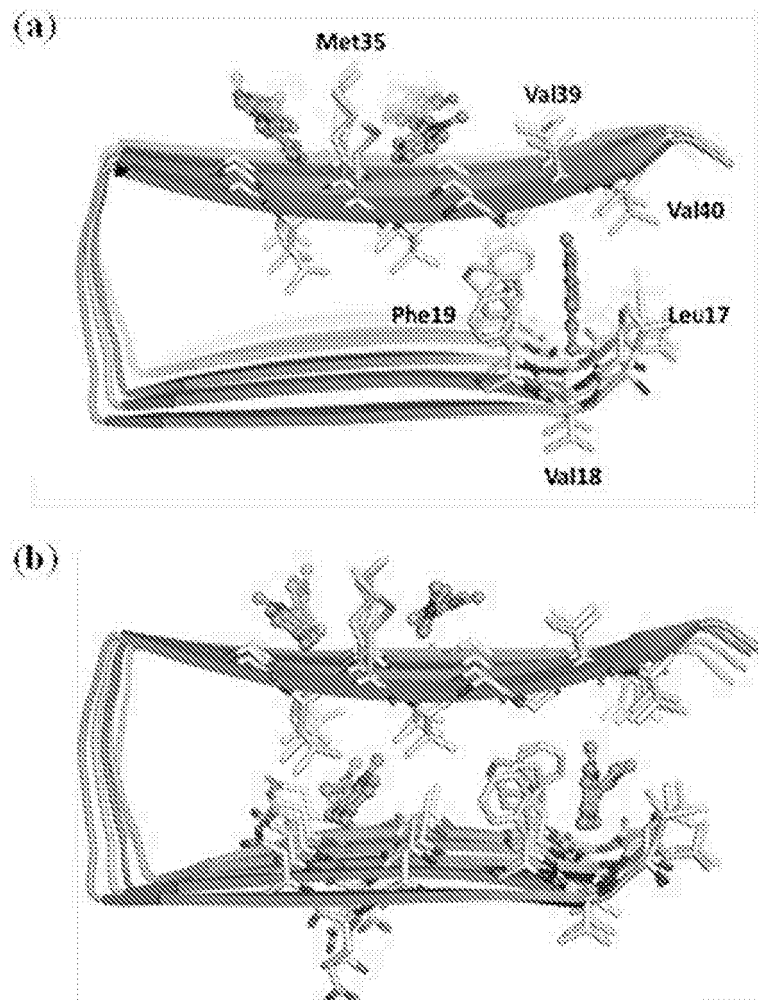
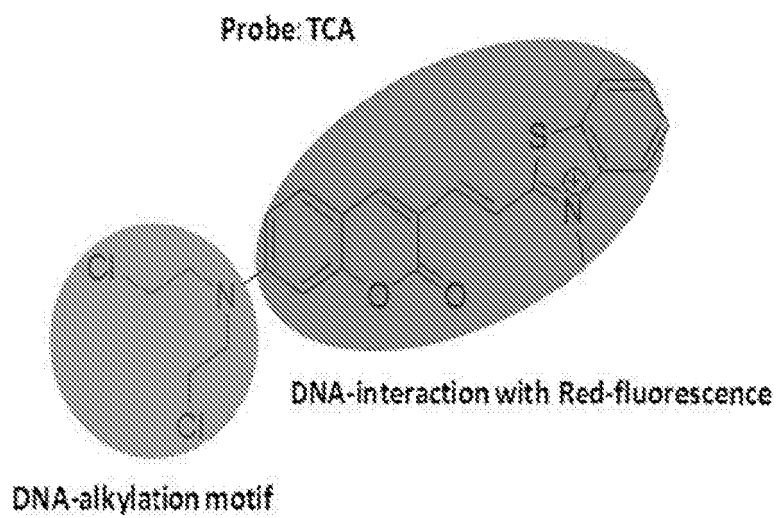


FIGURE 71

**FIGURE 72****FIGURE 73**

**FIGURE 74**