

Supplementary information

Green synthesis of broccoli-derived carbon quantum dots as the effective photosensitizer for PDT effect testified in the model of mutant *Caenorhabditis elegans*

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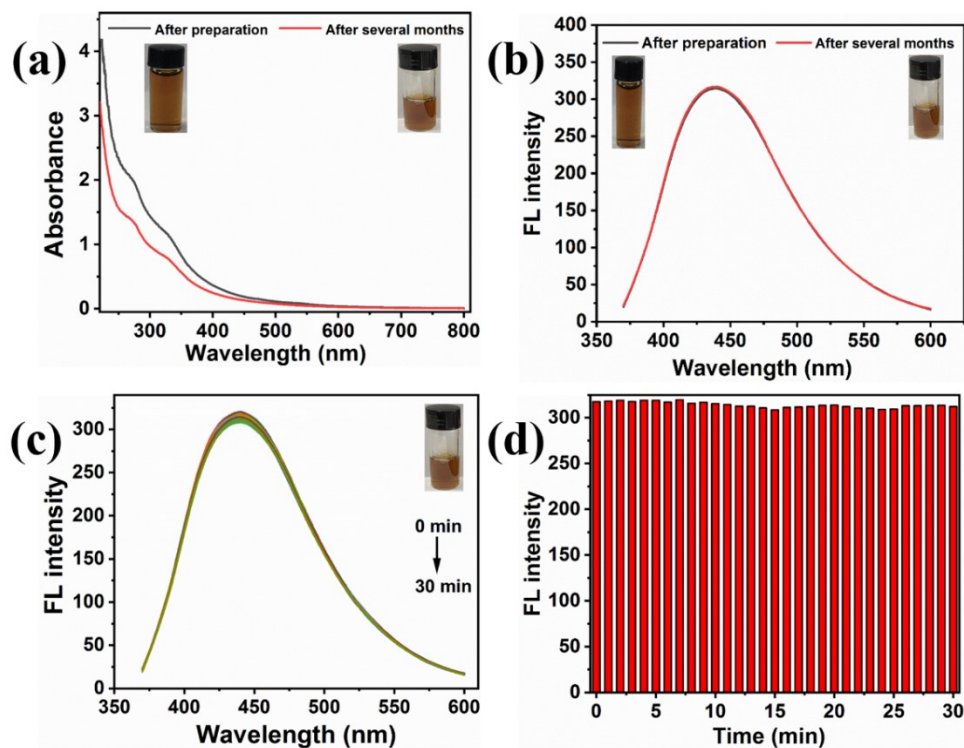


Figure S1. a) UV-vis absorption spectrum of BCQDs. b) Fluorescence spectrum of BCQDs. c) Fluorescence spectrum of BCQDs stored for several months under irradiated at 660 nm. d) Fluorescence intensity of the stored BCQDs with the time of irradiation at 660 nm for 30 min. (Insert images of as-synthesized BCQDs and stored for several months)

Table S1 Comparison of singlet oxygen quantum yield with that of the literature

Photosensitizer	$^1\text{O}_2$ QY	Reference
Copper-Doped Carbon Dots	0.36	1
Magnetofluorescent Mn-CDs	0.40	2
Hypocrella Bambusae- derived CDs	0.38	3
Broccoli- derived CQDs	0.42	This work

References:

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