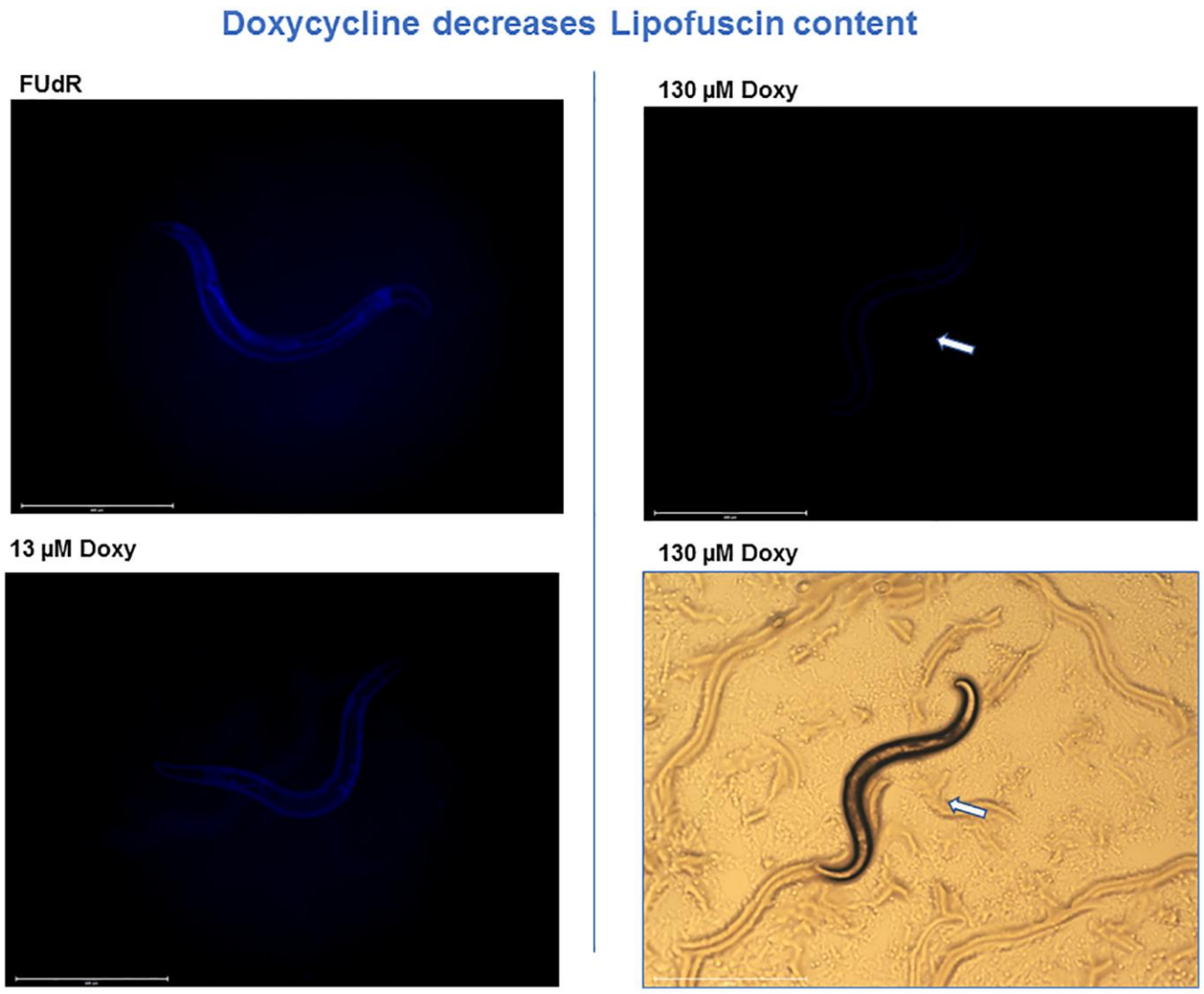
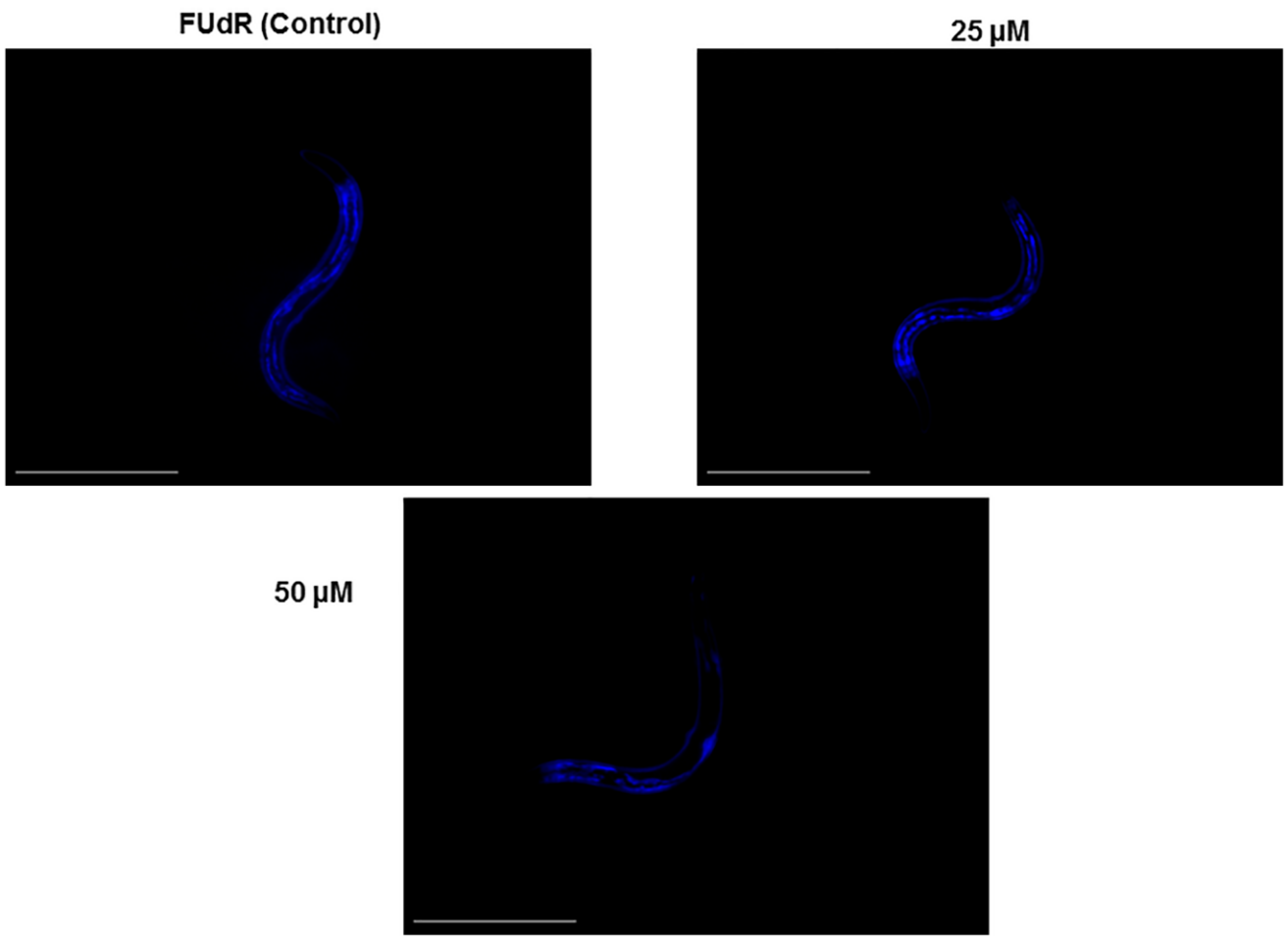
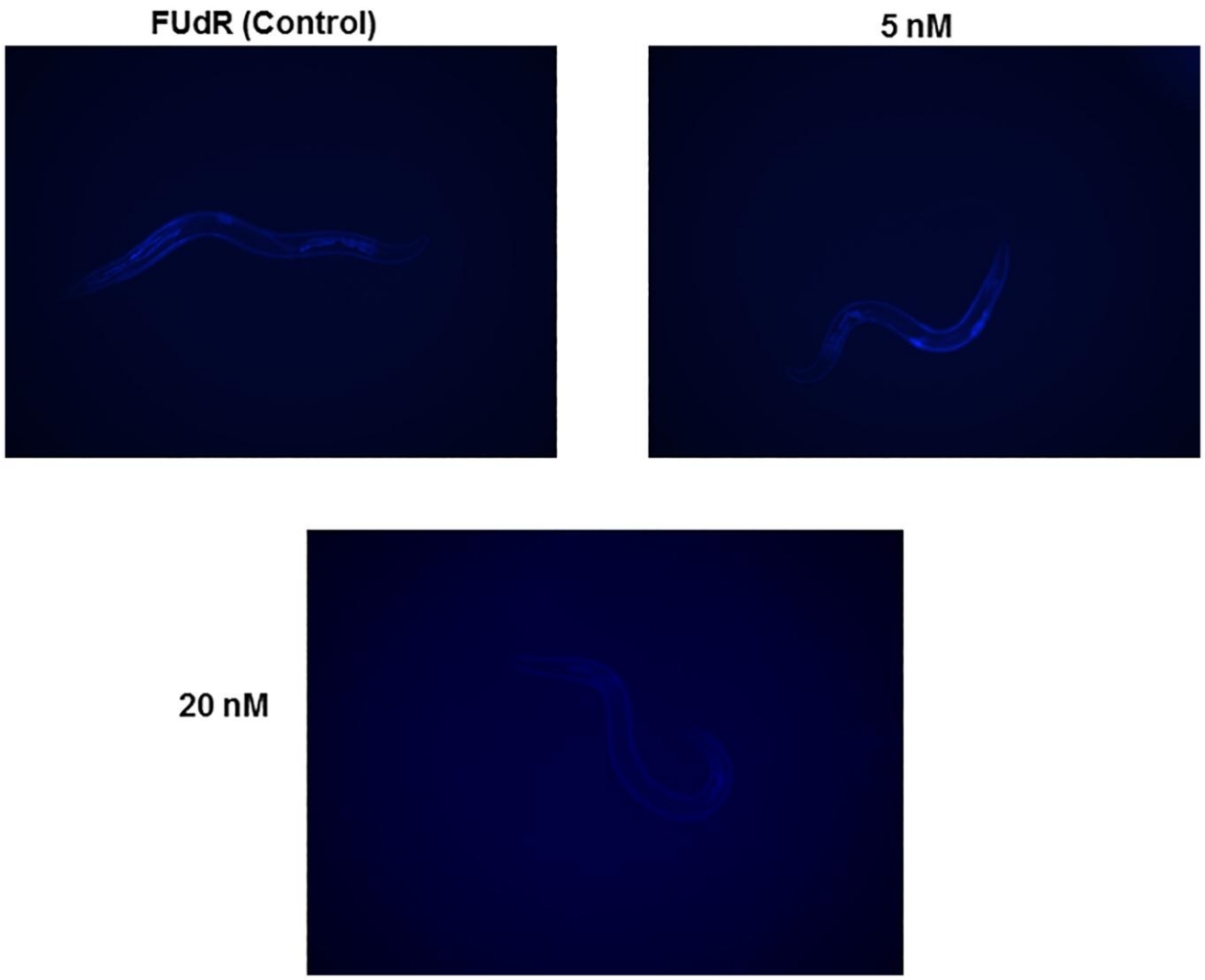
## SUPPLEMENTARY FIGURES



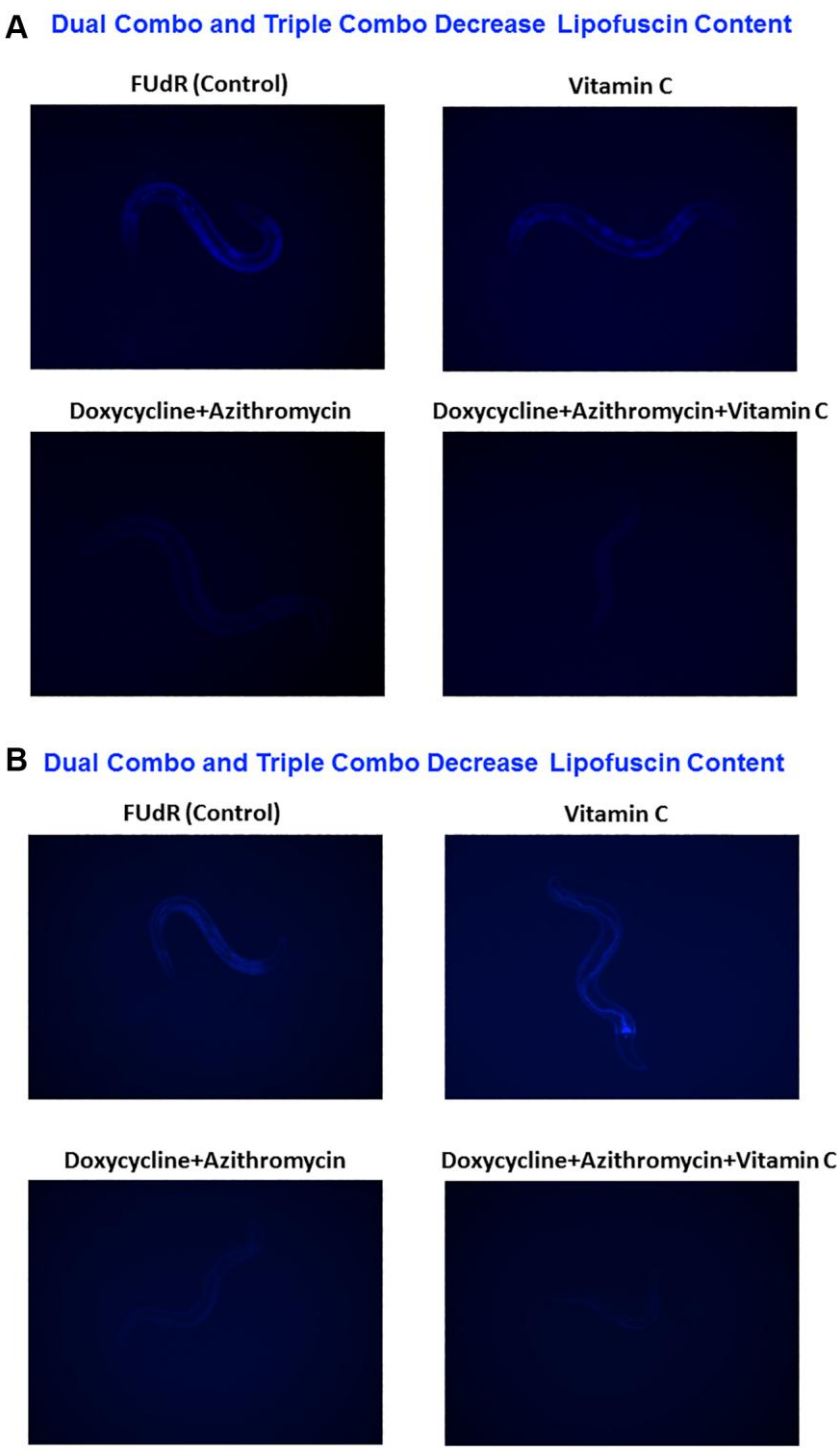

**Supplementary Figure 1. Doxycycline decreases lipofuscin content in adults (13 days from young adult stage).** A representative image of lipofuscin content evaluated by autofluorescence. DAPI filter set was used. Left half of the figure: top panel, FUdR control; lower panel, treatment with doxycycline at the concentration of 13 µM. Right half of the figure: top panel, treatment with doxycycline at the concentration of 130 µM; lower photograph as the one above but in brightfield. The arrow indicates the worm. Magnification 10X. Scale bar: 500 µm.




**Supplementary Figure 2. Azithromycin decreases lipofuscin content in adults (13 days from young adult stage).** Representative image of lipofuscin content evaluated by autofluorescence of the above pigment. DAPI filter set was used. Clockwise: FUdR control; *C. elegans* treated with azithromycin at the concentration of 25 µM; *C. elegans* treated with azithromycin at the concentration of 50 µM. Magnification 10X. Scale bar: 500 µm.




**Supplementary Figure 3. DPI decreases lipofuscin content in adults (13 days from young adult stage).** Representative image of lipofuscin content evaluated by autofluorescence of the above pigment. DAPI filter set was used. Clockwise: FUdR control; C. elegans treated with DPI at the concentration of 5 nM; *C. elegans* treated with DPI at the concentration of 20 nM. Magnification 10X. Scale bar: 500 μm.




**Supplementary Figure 4. Doxycycline/Azithromycin combination decreases lipofuscin content in adults.** Representative images of lipofuscin content evaluated by autofluorescence of the above pigment. DAPI filter was used. (**A**) Evaluation at 8 days from young adult stage. (**B**) evaluation at 13 days from young adult stage. Clockwise: untreated control; *C. elegans* treated with vitamin C alone; *C. elegans* treated with doxycycline plus azithromycin plus vitamin C; *C. elegans* treated with doxycycline plus azithromycin. Magnification 10X. Scale bar: 500 µm.