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Enantioselective oxidative stress and oxidative damage caused by *Rac*- and *S*-metolachlor to *Scenedesmus obliquus*

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1 **Enantioselective oxidative stress and oxidative damage caused**
2 **by *Rac*- and *S*-metolachlor to *Scenedesmus obliquus***

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11 Abbreviations: *Rac*-, racemic; *Racmt*, *Rac*-metolachlor; *Smt*, *S*-metolachlor; ROS,

12 reactive oxygen species; SOD, superoxide dismutase; CAT, catalase; Chl a,

13 chlorophyll a; Chl b, chlorophyll b; TEM, transmission electron microscopy;

14 H₂DCFDA, 2',7'-Dichlorodihydrofluorescein diacetate; FDA, Fluorescein diacetate;

15 H₂DCF, 2',7' -dichlorodihydrofluorescein; DCF, 2', 7' -dichlorofluorescein; LSCM,

16 Laser scanning confocal microscopy; NBT, nitroblue tetrazolium; APX, ascorbate

17 peroxidase, GR, glutathione reductase, GST, glutathione S-transferase

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