

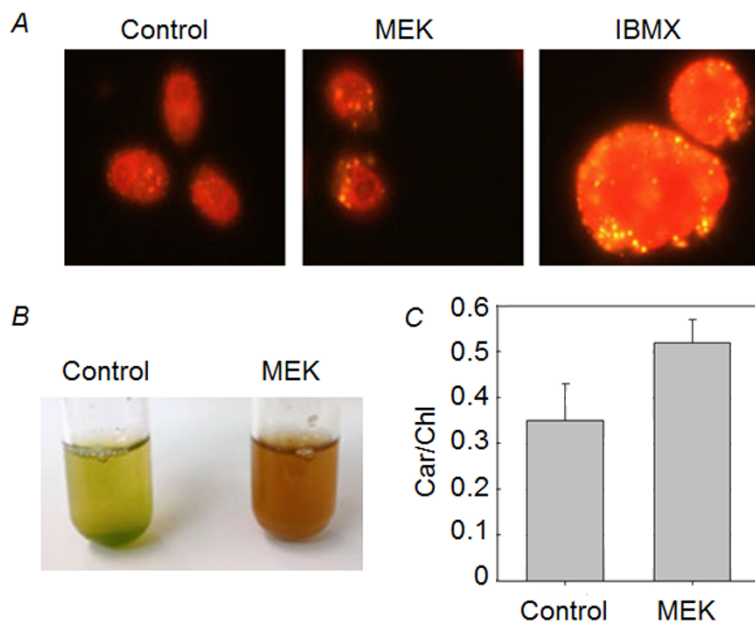


Fig. 1S. (A) Detection of lipid bodies with Nile red staining of microalgal cells after the treatment of small molecule signaling inhibitors or modulator. Control – control without any treatment of small molecule inhibitors or modulator; MEK – MAP kinase inhibitor; IBMX – cAMP signaling modulator. (B) Photos of microalgal suspensions taken after the treatments of MAP kinase inhibitors. Increased Car biosynthesis was observed upon the treatment of MAP kinase inhibitor. (C) - Quantification and measurement of the extent of Car production. Relative Car content was presented as Car/Chl ratios.