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Supplementary Materials

Carbon Nanotubes Improved the Germination and Vigor of Plant Species from Peatland Ecosystem Via Remodeling the Membrane Lipidome

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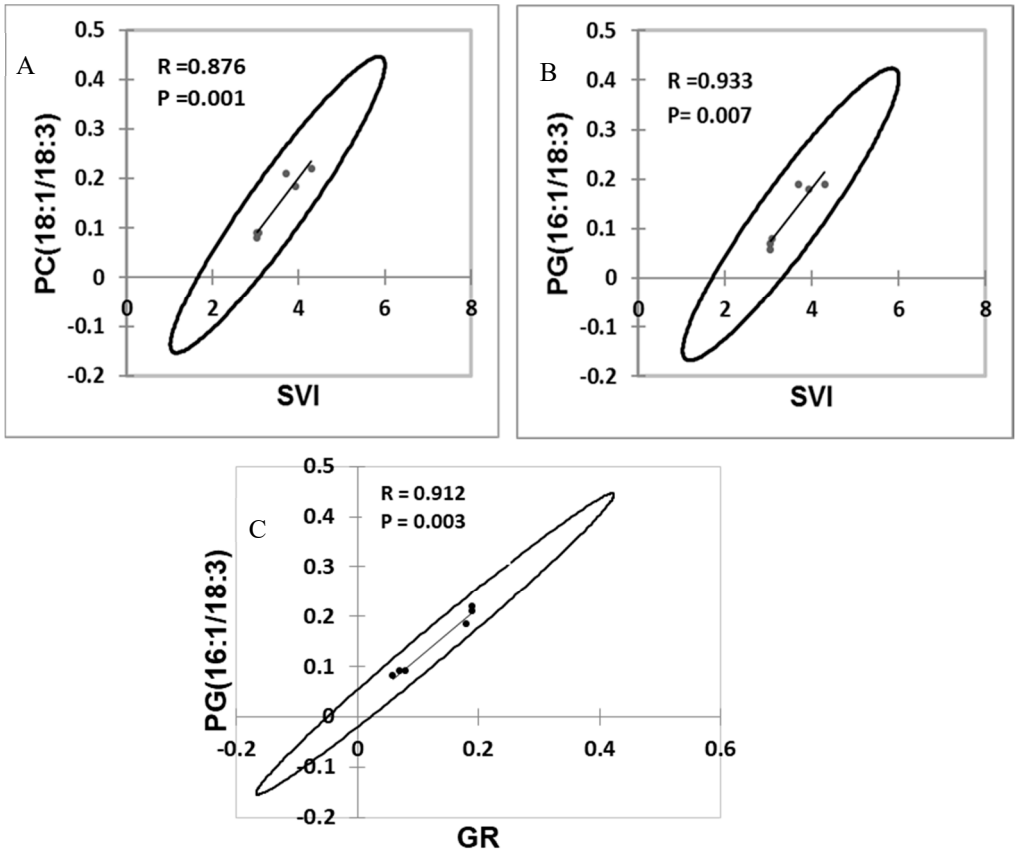

Figure S1. Correlations between lipid molecular species, seedling vigor index (**A**,**B**) and seed germination (**C**). Correlation done for only R1, R2, and R3 of MWCNT-COOH treatments of both bog birch and Labrador tea and only means are presented. R = Pearson's correlation coefficient, p = alpha at 0.05. n = 100 plants per treatment. SVI = Seedling vigor index, GR = germination rate, PG = phosphatidyl glycerol, PC = phosphatidylcholine.

Table S1. Lipid molecular species clustered in the same quadrants as MWCNT-COOH, SVI and GR following RDA analysis, but are not significantly correlated following Pearson correlation analysis. N = 100 plants per treatment.

Labrador tea	
Name of lipid Classes	**Level of significance**
PI (16:0/18:2)	NS
PC(18:3/18:3)	NS
PC(18:3/18:2)	NS
PA(18:3/18:2)	NS
DGDG(16:0/18:3)	NS
LPC (18:2)	NS
DGDG(18:3/18:3)	NS

Table S2. Lipid molecular species clustered in the same quadrants as MWCNT-COOH, SVI and GR following RDA analysis, but are not significantly correlated following Pearson correlation analysis. N = 100 plants per treatment.

Bog birch	
Name of lipid Classes	**Level of significance**
PI (16:0/18:3)	NS
PA(18:1/18:2)	NS
LPC (18:3)	NS
PE (16:0/18:2)	NS
DGDG(18:3/18:3)	NS