Figure S1

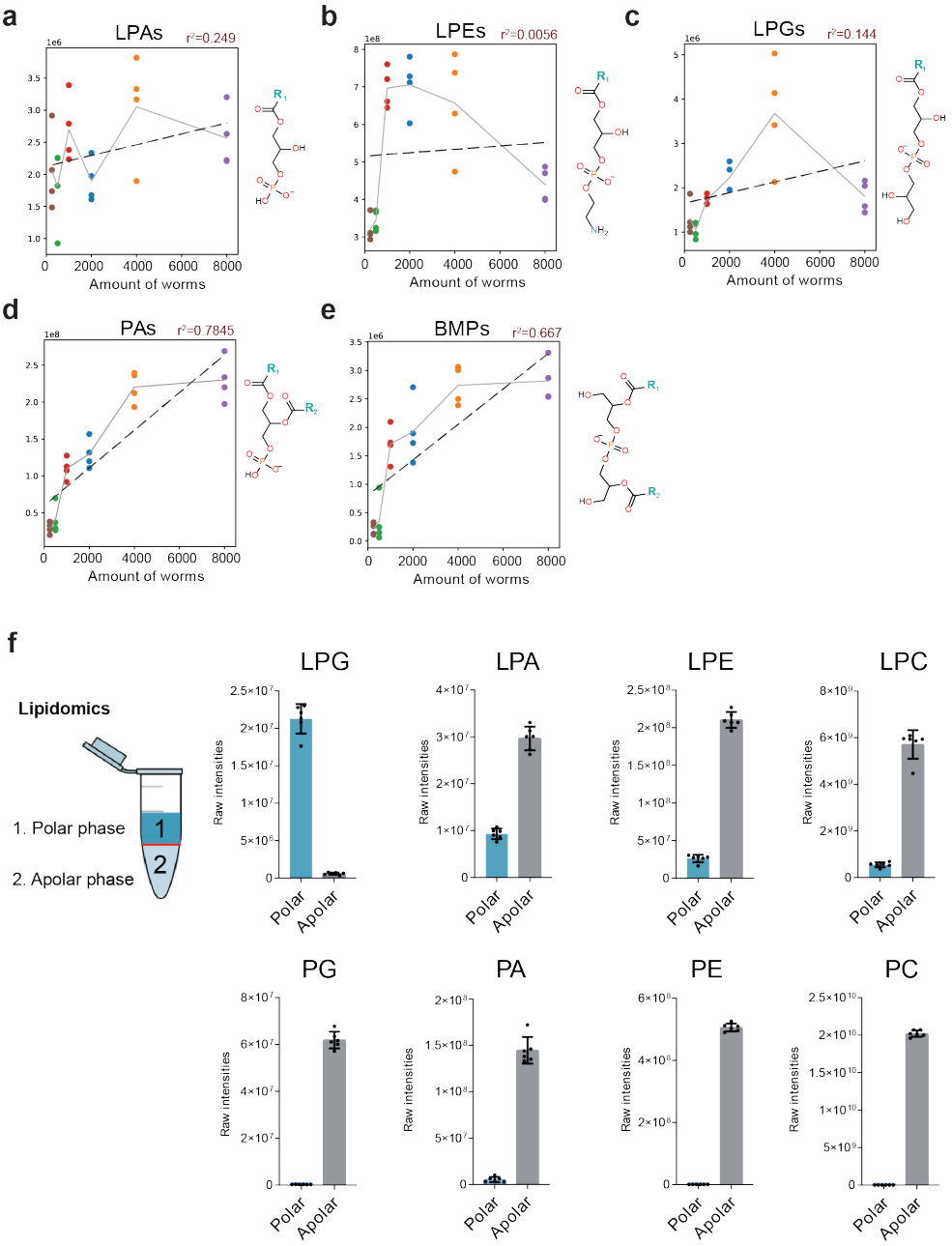

Fig. S1 | Validation of lipids extracted from apolar phase on the polar side of the lipid spectrum. Linearity of **a,** LPAs **b,** LPEs **c,** LPGs **d,** PAs **e,** BMPs. Chemical structure of the classes are depicted on the right of each graph. **f**, Partitioning of internal standards into apolar/polar phase. Internal standards of lyso-lipid species LPG, LPA, LPE, LPC partially go to the polar phase, while non-lyso counterparts stay in the apolar phase.

Figure S2

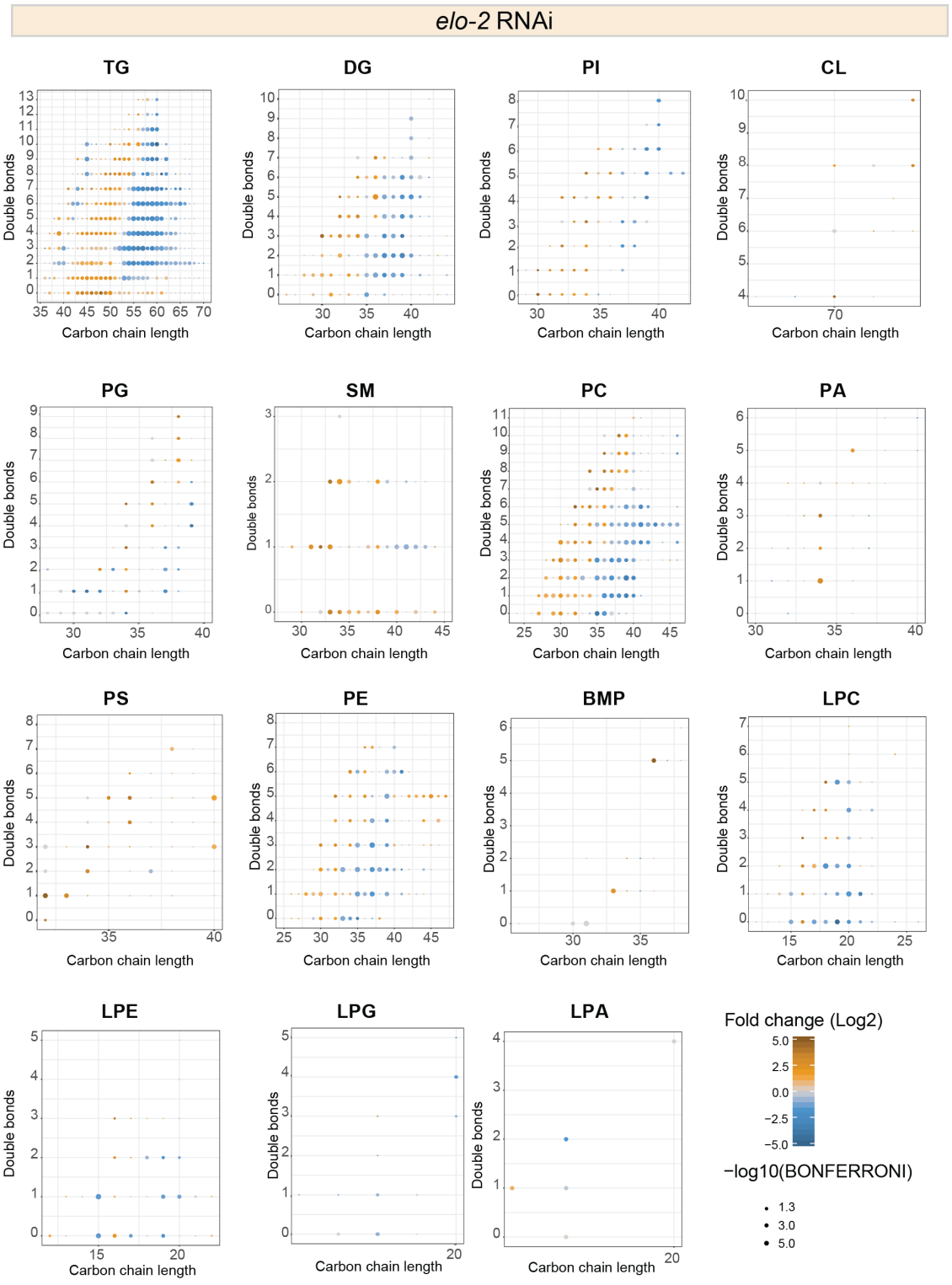

Fig. S2 | Phospholipid changes in all classes in worms treated with *elo-2* RNAi. Changes in the composition of almost all classes shows significant decrease of phospholipids with long carbon-chain length and significant increase of species with short carbon-chain length.

Figure S3

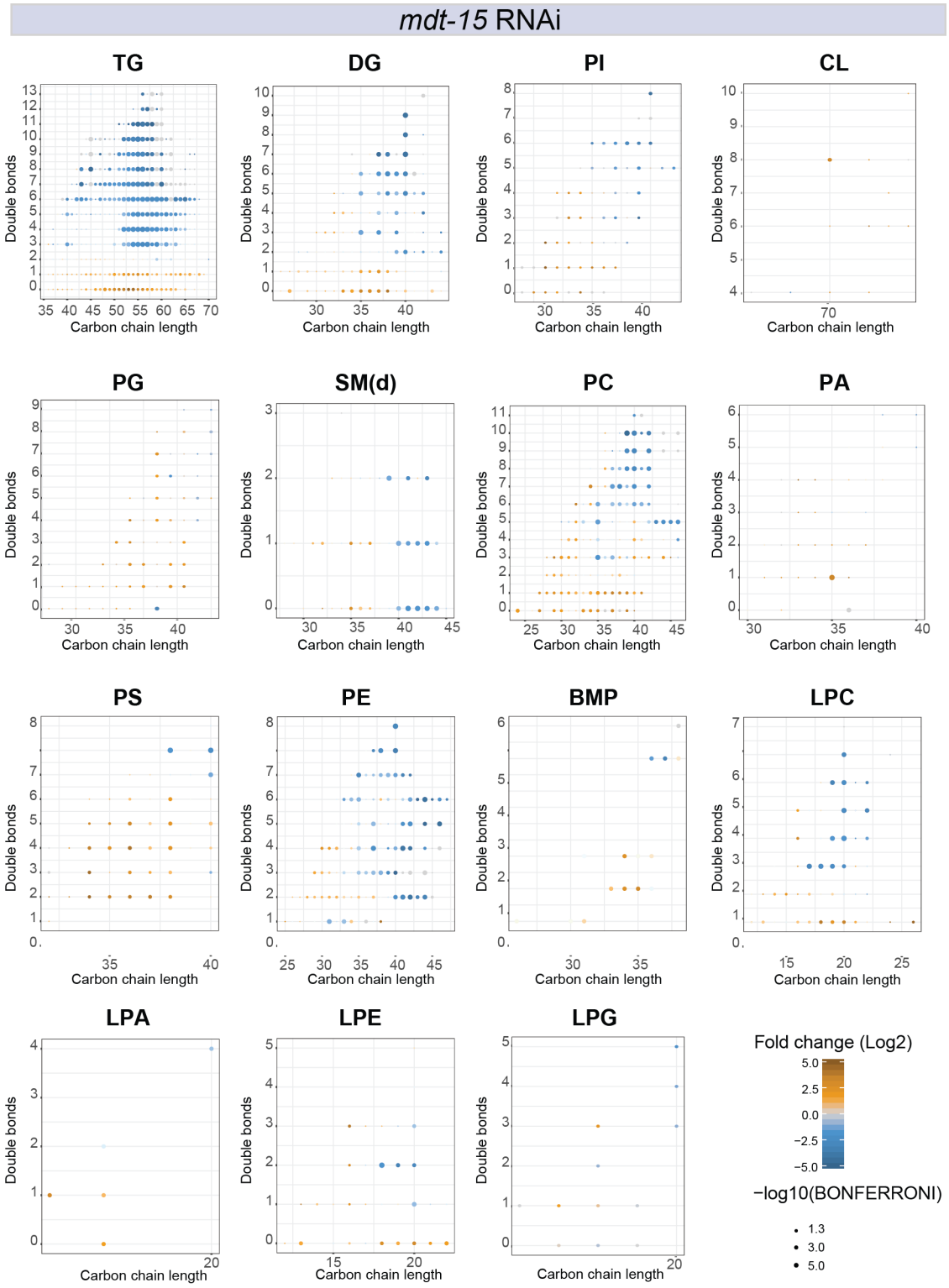

Fig. S3 | Phospholipid changes in all classes in worms treated with *mdt-15* RNAi. Changes in phospholipids of many species shows significant decrease of lipids with >2 double bonds and increase of PL with <2 double bonds.

Table S1. Data used to create Fig. 1B-E

Click here to Download Table S1

Table S2. Data used to create Fig. 1F-M

Click here to Download Table S2

Table S3. Data used to create Fig. 2

Click here to Download Table S3

Table S4. RNAi conditions used in Figs 3 and 4

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Table S5. Data used to create Fig. 5 (metabolomics and lipidomics data)

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