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NOM OSFWD OSCC Α Intensity (a. u. ) 000 m/z

Figure S1









## Supplementary figures

**Figure S1** Overlapped MS spectra of PI (A), TG (B), PIP2 (C), CDP-DAG (D), Timnodonyl CoA (E), 3-Oxo-docosa-7,10,13,16-all-cis-tetraenoyl-CoA (F) with isotopic distributions obtained from eluted fraction spots showing variation of AUCs in three conditions: normal (NOM), pre-cancer (OSF) and cancer (OSCC).

## Figure S2











**Figure S2** MS/MS fragmentation (lower panel) of separated metabolites along with their parent peaks (upper panel) such as PI (A), PIP2 (B), CDP-DAG (C), Timnodonyl CoA (D), Ganglioside (E).