

Additional file

Figure S1. Workflow of population selection of the case-cohort study.

Figure S2. Metabolic profile analysis (PLS-DA three-dimensional scores plots and permutation test plots) in the case-cohort study. (A) Sub-cohort and case group profile analysis; (B) Sub-cohort and TIS group profile analysis; (C) Sub-cohort and ESCC group analysis; (D) Sub-cohort and GC group profile analysis.

Figure S3. Boxplots showing levels of differential metabolites in serum samples of TIS case group and sub-cohort group.

Figure S4. Boxplots showing levels of differential metabolites in serum samples of ESCC case group and sub-cohort group.

Figure S5. Boxplots showing levels of differential metabolites in serum samples of GC case group and sub-cohort group.

Figure S6. ROC curves of prediction models in the case-cohort study and ESCC screening study. (A) Random forest models to discriminate gastroesophageal cancer; (B) Random forest models to discriminate tumor in situ; (C) Random forest models to discriminate esophageal cancer; (D) Random forest models to discriminate gastric cancer; (E) ROC curves in discovery dataset; (F) ROC curves in validation dataset.

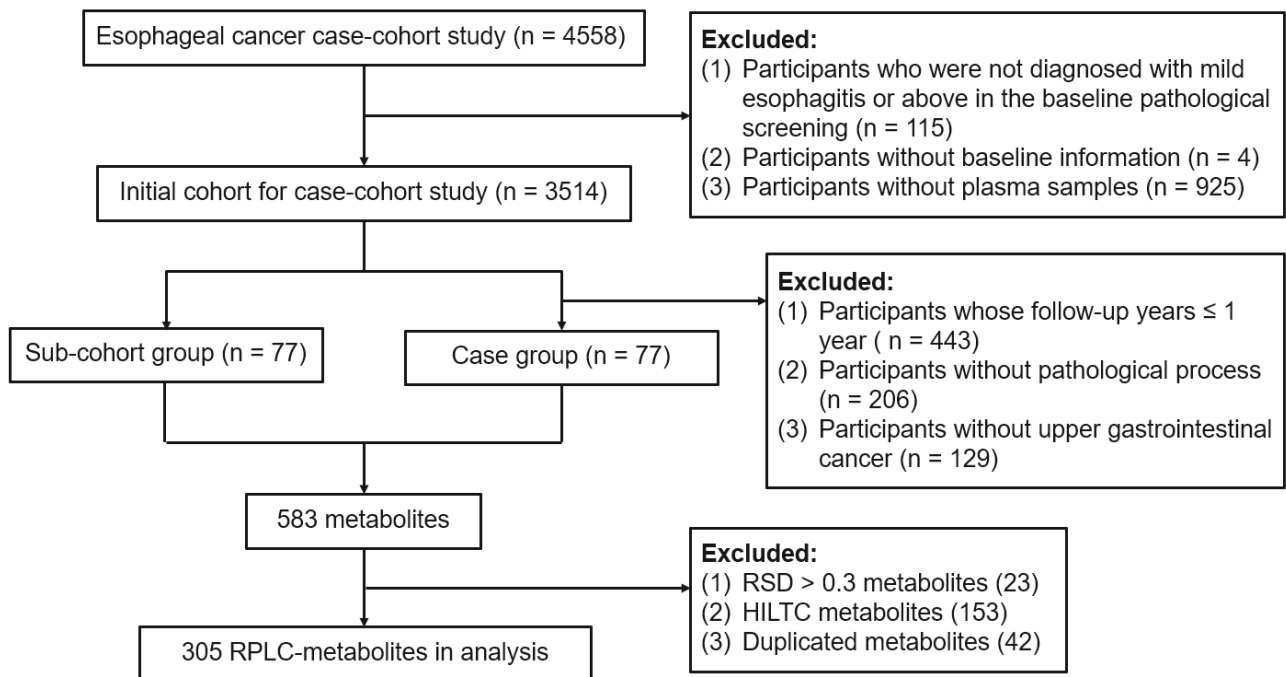


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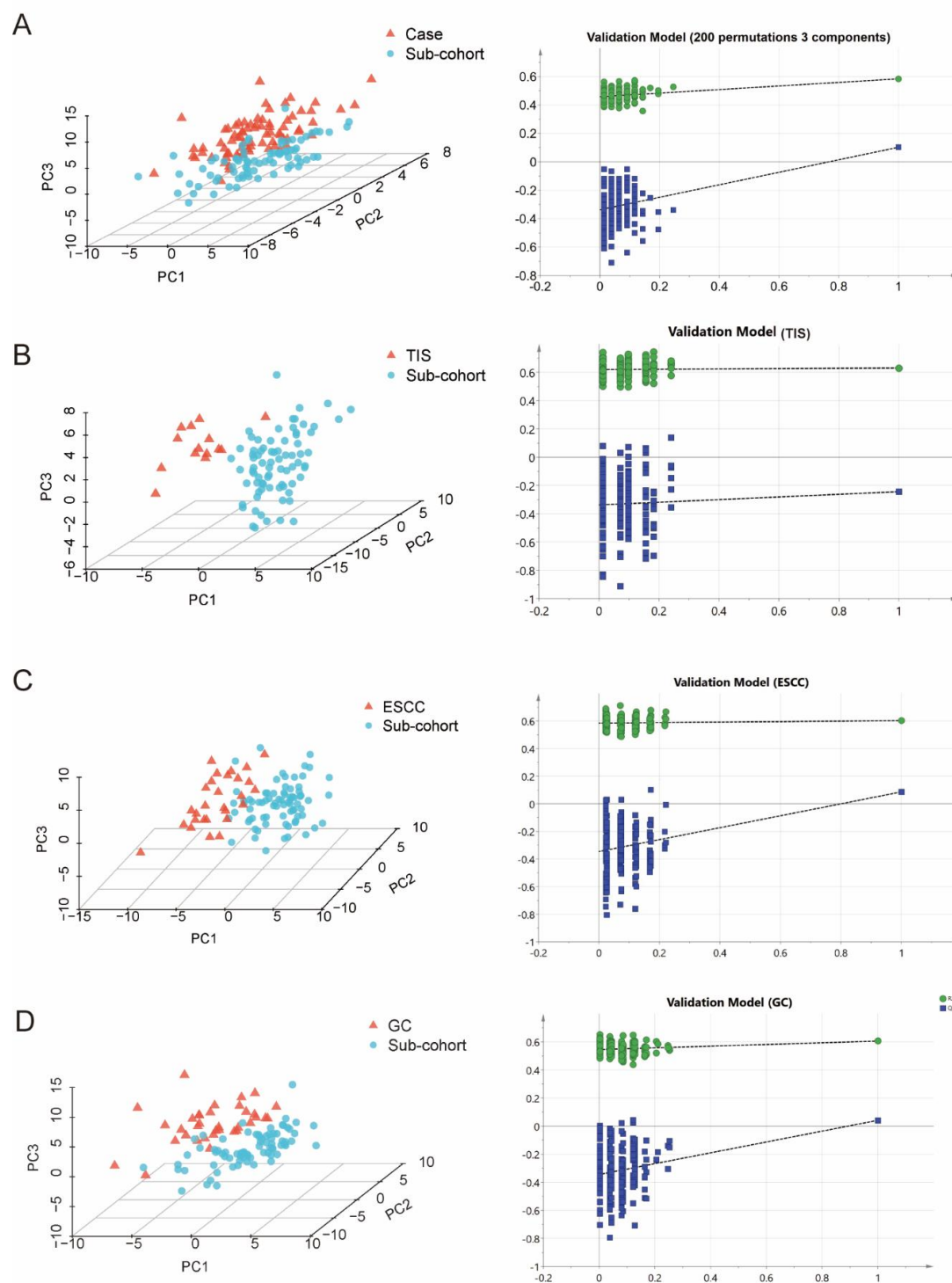


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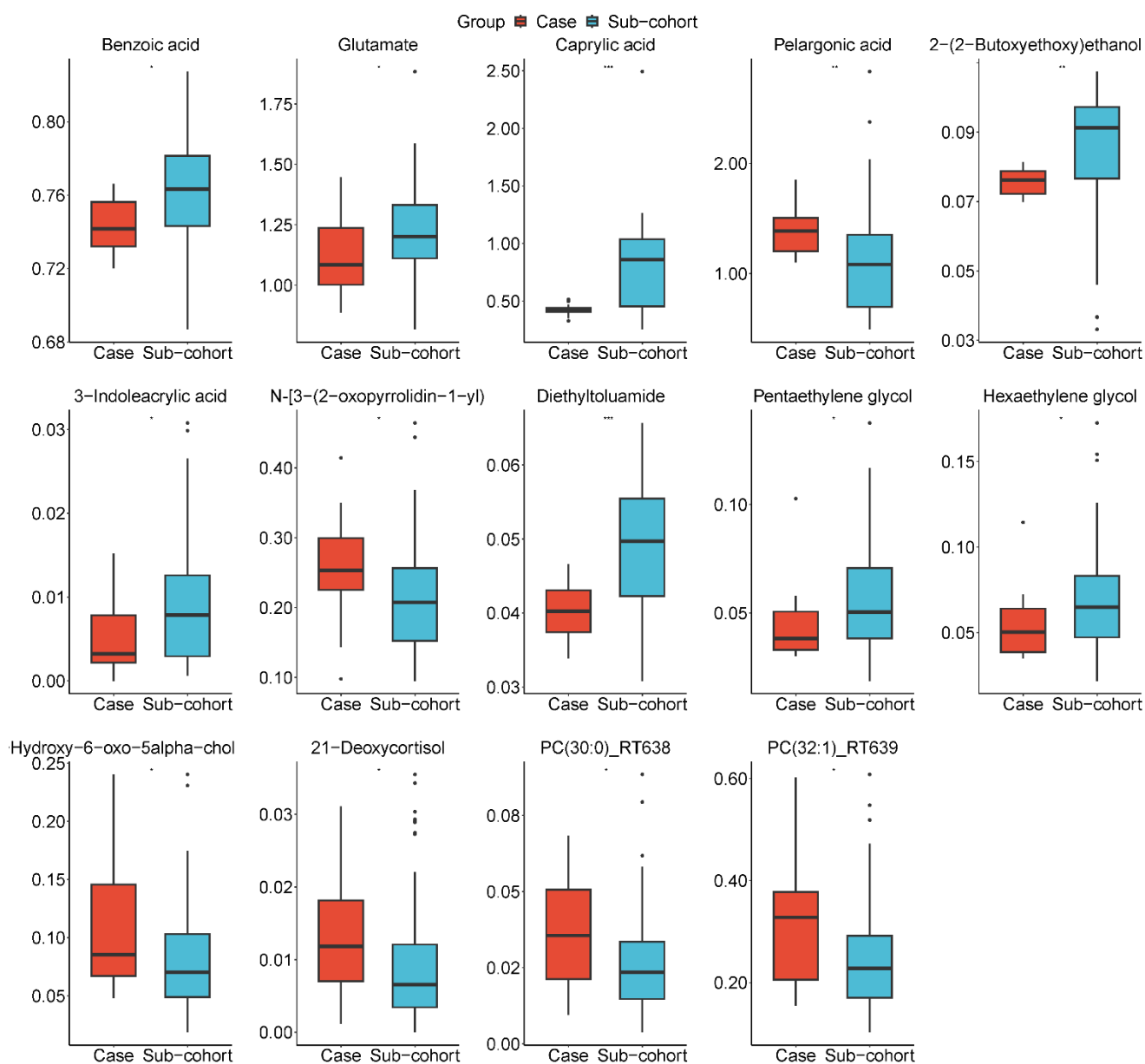


Figure S3. Boxplots showing levels of 14 differential metabolites in serum samples of TIS case group and sub-cohort group.

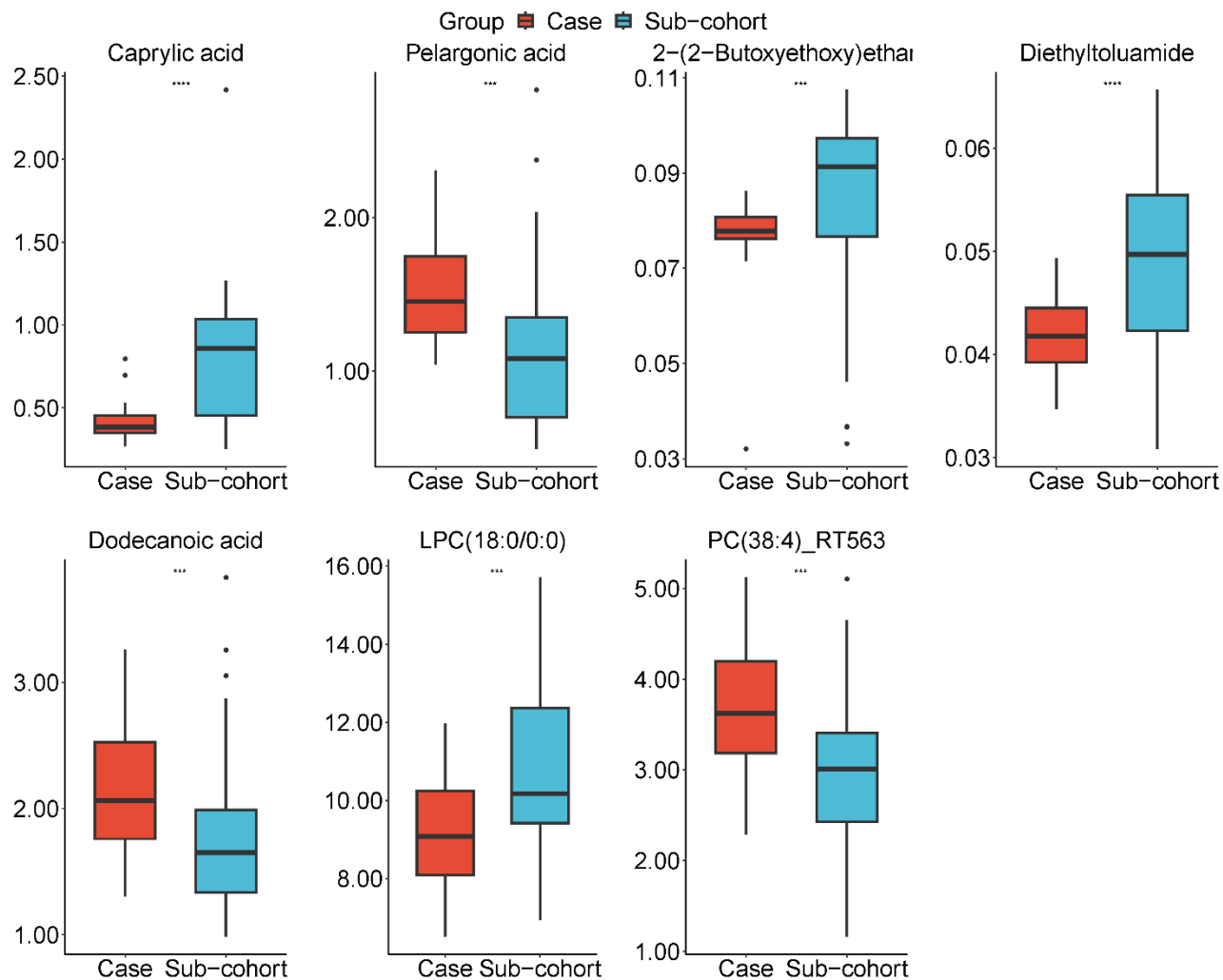


Figure S4. Boxplots showing levels of 7 differential metabolites in serum samples of ESCC case group and sub-cohort group.

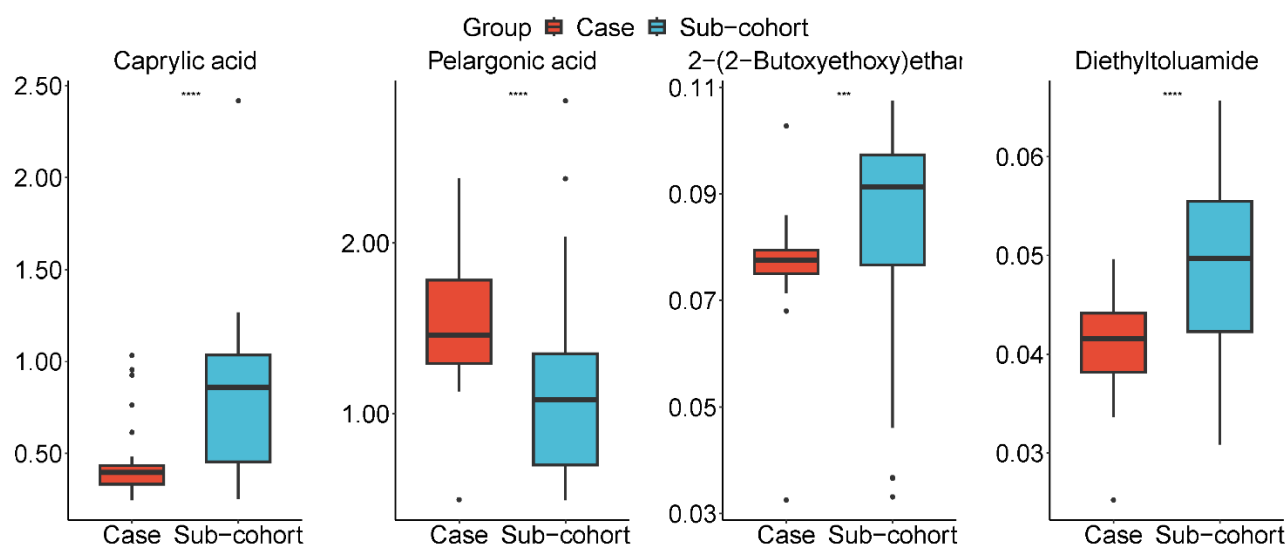


Figure S5. Boxplots showing levels of 4 differential metabolites in serum samples of GC case group and sub-cohort group.

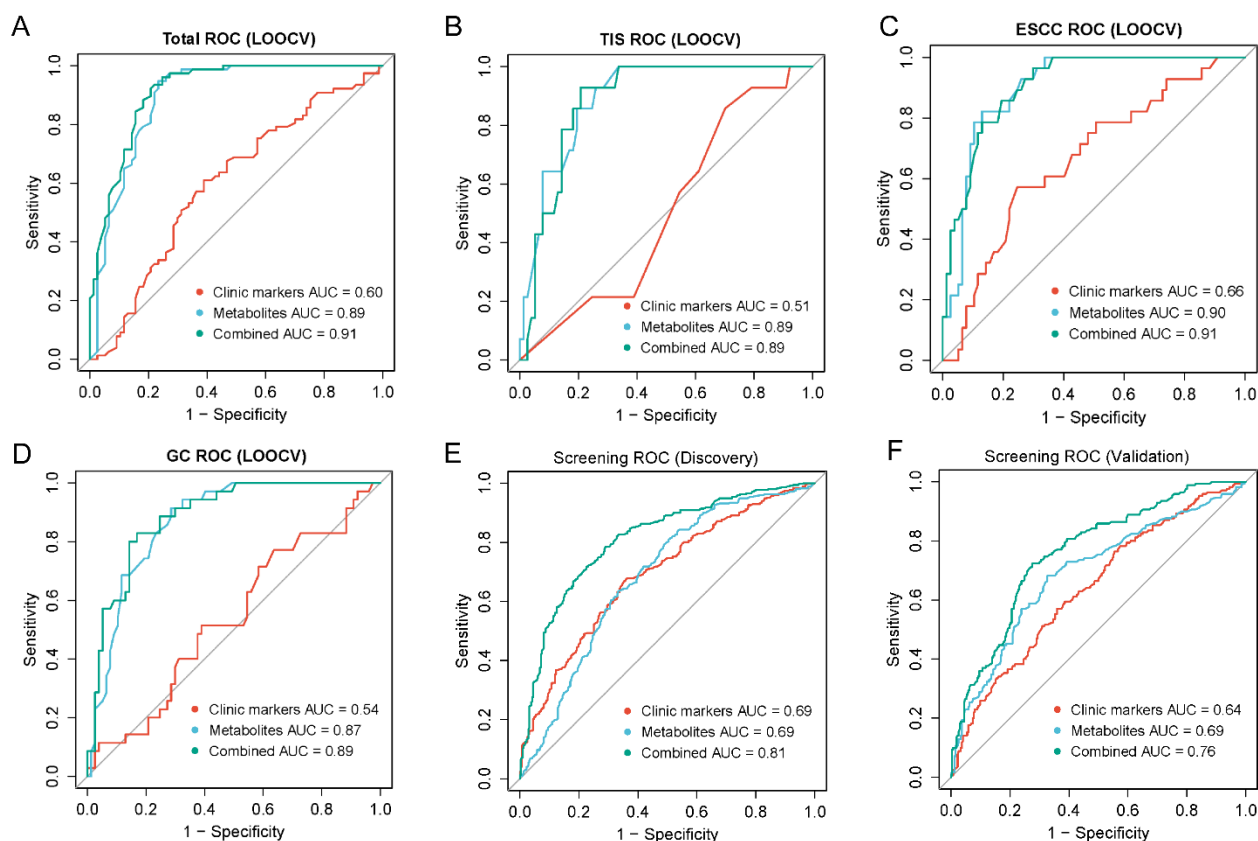


Figure S6. ROC curves of prediction models in the case-cohort study and ESCC screening study. (A) Random forest models to discriminate gastroesophageal cancer; (B) Random forest models to discriminate tumor in situ; (C) Random forest models to discriminate esophageal cancer; (D) Random forest models to discriminate gastric cancer; (E) ROC curves in discovery dataset; (F) ROC curves in validation dataset.