



**Supplementary Figure 3.** The box-cum-whisker plots of metabolic combinations in the male group. B: The box-cum-whisker plots of metabolic combinations in the female group. TPA2, total apolipoprotein-A2; HDA2, HDL apolipoprotein-A2; H4A1, HDL-4 apolipoprotein-A1; H4A2, HDL-4 apolipoprotein-A2; H1CH, HDL-1 cholesterol; H4CH, HDL-4 cholesterol; H1FC, HDL-1 free cholesterol; LDAB, LDL apolipoprotein-B; L1AB, LDL-1 apolipoprotein-B; L2AB, LDL-2 apolipoprotein-B; L3AB, LDL-3 apolipoprotein-B; LDCH, LDL-cholesterol; L1CH, LDL-1 cholesterol; L2CH, LDL-2 cholesterol; L3CH, LDL-3 cholesterol; LDFC, LDL free cholesterol; L1FC, LDL-1 free cholesterol; L2FC, LDL-2 free cholesterol; L3FC, LDL-3 free cholesterol; L2TG, LDL-2 triglycerides; L3TG, LDL-3 triglycerides; LDPN, LDL particle number; L1PN, LDL-1 particle number; L2PN, LDL-2 particle number; L3PN, LDL-3 particle number; LDPL, LDL phospholipids; L1PL, LDL-1 phospholipids; L2PL, LDL-2 phospholipids; L3PL, LDL-3 phospholipids; HDL, high-density lipoprotein; LDL, low-density lipoprotein.