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**Alterations of the fatty acid composition and lipid metabolome of breast muscle in chickens exposed to dietary mixed edible oils**

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**Table S3** *Metabolic pathways and significantly different metabolites that enriched in the lipid pathways of chickens fed soybean oil diet (CON) versus chickens fed mixed edible oils diet (MEO)*

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| --- | --- | --- |
| Metabolic Pathways1 | | Metabolites2 |
| Glycerophospholipid metabolism (11) | PC (14:0/20:4), PC (18:1/14:1), PC (18:0/14:1),  PC (18:0/18:4), PC (20:0/18:4), PE (22:0/P-16:0),  PE (24:0/20:5), PE (22:2/P-18:1), PE (24:0/18:4),  PA (16:0/16:0), LysoPC (18:2) | |
| Glycosylphosphatidylinositol(GPI)- anchor biosynthesis (4) | PE (22:0/P-16:0), PE (24:0/20:5), PE (22:2/P-18:1), PE (24:0/18:4) | |
| alpha-Linolenic acid metabolism (5) | PC (14:0/20:4), PC (18:1/14:1), PC (18:0/14:1),  PC (18:0/18:4), PC (20:0/18:4) | |
| Arachidonic acid metabolism (5) | PC (14:0/20:4), PC (18:1/14:1), PC (18:0/14:1),  PC (18:0/18:4), PC (20:0/18:4) | |
| Linoleic acid metabolism (5) | PC (14:0/20:4), PC (18:1/14:1), PC (18:0/14:1),  PC (18:0/18:4), PC (20:0/18:4) | |

1Numbers in parentheses are the metabolites enriched in each pathway.

2PC, phosphatidylcholine; PE, phosphatidylethanolamine; PA, phosphatidic acid; LysoPC, lysophosphatidylcholines.