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# Polysaccharides extracted from *Phellinus linteus* ameliorate high-fat high-fructose diet induced insulin resistance in mice

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## Highlights

- PLP restored vitamin B12 level, due to accumulation of VB12 synthesis related gut microbiota.
- PLP modified the hepatic S-adenosyl methionine metabolism and rescued the hepatic PC/PE ratio.
- PLP improved insulin sensitivity, hepatic FOXO signaling pathway may be involved.

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