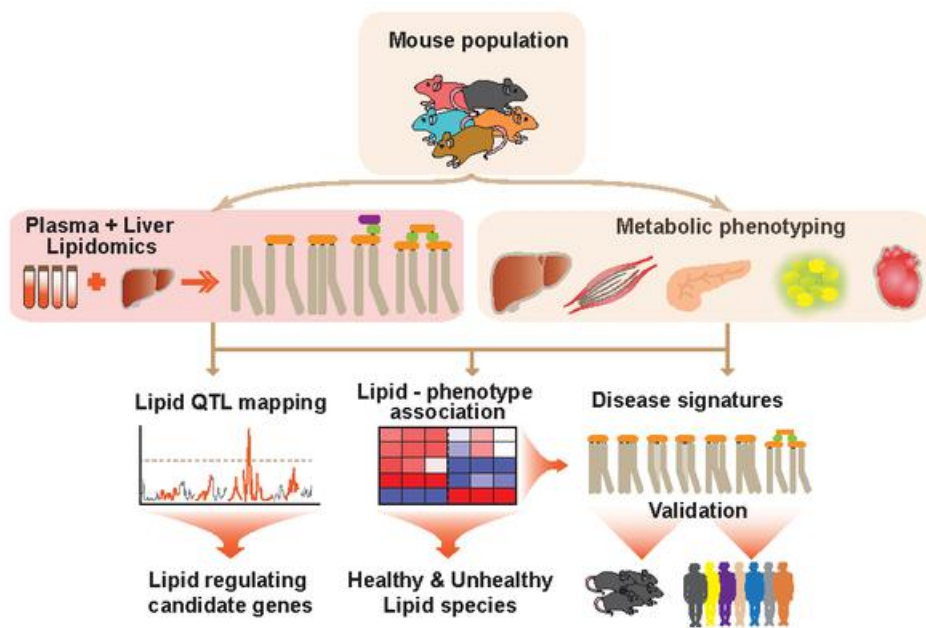


# Plasma and liver lipid species as biomarkers of fatty liver



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Keywords

Biomarker  
 Fatty liver disease  
 Lipidomics

Intellectual Property

Regular US national phase upon WO2018/141965.

Publications

Jha et al., 2018, "Genetic Regulation of Plasma Lipid Species and Their Association with Metabolic Phenotypes", *Cell Systems*, 6:709-721.  
 Jha et al., 2018, "Systems Analyses Reveal Physiological Roles and Genetic Regulators of Liver Lipid Species", *Cell Systems*, 6:722-733.

Date

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## Description

Quantitative trait locus (QTL) mapping and multilayered omics (weighted correlation network analysis), reveal a set of specific liver and plasma lipid species correlating with other biological factors of liver fat accumulation.

These lipid species are validated as markers in a mouse model of fatty liver and in human subjects with various severity of Non-Alcoholic Fatty Liver Disease (NAFLD), thus showing their potential in predictive medicine and liver health.

diagnosis of fatty liver diseases that relies on invasive liver biopsies and histological scoring.

- The results are independent of a particular diet.

## Applications

- Diagnosing fatty liver diseases
- Diagnosing disease predisposition
- Monitoring disease progression
- Monitoring efficacy of therapy (surgery, drug treatment, life style recommendations)

## Advantages

- Ability to assess the liver condition directly from plasma samples represents an easier and safer alternative method to the current