

Accepted Manuscript

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PII: S0955-2863(17)30757-X
DOI: doi: [10.1016/j.jnutbio.2017.11.003](https://doi.org/10.1016/j.jnutbio.2017.11.003)
Reference: JNB 7882

To appear in: *The Journal of Nutritional Biochemistry*

Received date: 21 August 2017
Revised date: 18 September 2017
Accepted date: 11 November 2017



Please cite this article as: Bae Minkyung, Park Young-Ki, Lee Ji-Young, Food components with anti-fibrotic activity and implications in prevention of liver disease, *The Journal of Nutritional Biochemistry* (2017), doi: [10.1016/j.jnutbio.2017.11.003](https://doi.org/10.1016/j.jnutbio.2017.11.003)

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Food components with anti-fibrotic activity and implications in prevention of liver disease

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Running title: Anti-fibrotic food components

Abbreviations: ACC, Acetyl-CoA carboxylase; ASTX, Astaxanthin; BAMBI, BMP and activin membrane-bound inhibitor homolog; BDL, Bile duct ligation; CCL4, Chemokine (C-C motif) ligand 4; CCR, Chemokine receptor C-C motif chemokine receptor; ChREBP, Carbohydrate response element binding protein; COL1A1, Procollagen type 1 α 1; DMN, Dimethylnitrosamine; DT, Diphtheria toxin; ECM, Extracellular matrix; EGCG, Epigallocatechin-3-gallate; FAS, Fatty acid synthase; FAT, Fatty acid translocase; FATP, Fatty acid transport protein; GPx, Glutathione peroxidase; GSH, Glutathione; HCC, Hepatocellular carcinoma; HDAC9, Histone deacetylase 9; HSC, Hepatic stellate cell; IL, Interleukin; JNK, c-Jun N-terminal protein kinase; MCD, Methionine and choline-deficient; Mcl-1, Myeloid cell leukemia-1, MCP-1: Monocyte chemoattractant protein-1; MDA, Malondialdehyde; MMP, Matrix metalloproteinase; NAFL, Nonalcoholic fatty liver; NAFLD, Nonalcoholic fatty liver disease; NASH, Nonalcoholic steatohepatitis; NF- κ B, Nuclear factor- κ B; NOX, NADPH oxidase; NRF2, Nuclear factor erythroid 2-related factor 2; n-TiO₂, Nano-sized titanium dioxide; PDGF, Platelet-derived growth factor; ROS, Reactive oxygen species; SCD-1, Stearoyl-CoA desaturase-1; SD, Sprague Dawley; SMAD,

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