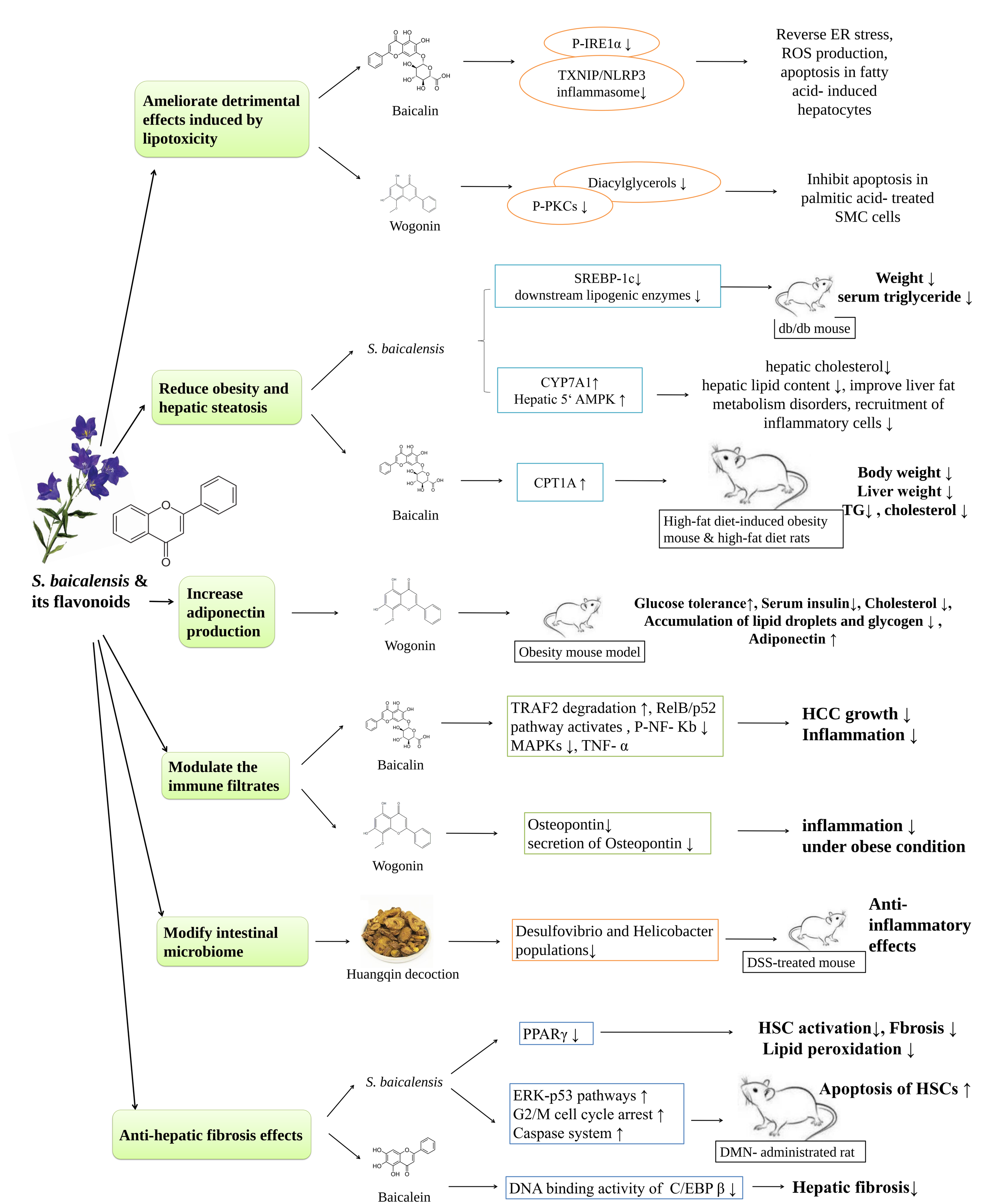
Ameliorate detrimental effects induced by lipotoxicity
Baicalin
P-IRE1α ↓
TXNIP/NLRP3 inflammasome↓
Reverse ER stress, ROS production, apoptosis in fatty acid- induced hepatocytes
Wogonin
Diacylglycerols ↓
P-PKCs ↓
Inhibit apoptosis in palmitic acid- treated SMC cells
Reduce obesity and hepatic steatosis
S. baicalensis
SREBP-1c↓
downstream lipogenic enzymes ↓
db/db mouse
Weight ↓
serum triglyceride ↓
CYP7A1↑
Hepatic 5' AMPK ↑
hepatic cholesterol↓
hepatic lipid content ↓, improve liver fat metabolism disorders, recruitment of inflammatory cells ↓
Baicalin
CPT1A ↑
High-fat diet-induced obesity mouse & high-fat diet rats
Body weight ↓
Liver weight ↓
TG↓ , cholesterol ↓
S. baicalensis & its flavonoids
Increase adiponectin production
Wogonin
Obesity mouse model
Glucose tolerance↑, Serum insulin↓, Cholesterol ↓, Accumulation of lipid droplets and glycogen ↓ , Adiponectin ↑
Modulate the immune filtrates
Baicalin
TRAF2 degradation ↑, RelB/p52 pathway activates , P-NF- Kb ↓ MAPKs ↓, TNF- α
HCC growth ↓
Inflammation ↓
Wogonin
Osteopontin↓
secretion of Osteopontin ↓
inflammation ↓
under obese condition
Modify intestinal microbiome
Huangqin decoction
Desulfovibrio and Helicobacter populations↓
DSS-treated mouse
Anti-inflammatory effects
Anti-hepatic fibrosis effects
S. baicalensis
PPARγ ↓
HSC activation↓, Fbrosis ↓
Lipid peroxidation ↓
ERK-p53 pathways ↑
G2/M cell cycle arrest ↑
Caspase system ↑
DMN- administrated rat
Apoptosis of HSCs ↑
Baicalein
DNA binding activity of C/EBP β ↓
Hepatic fibrosis↓