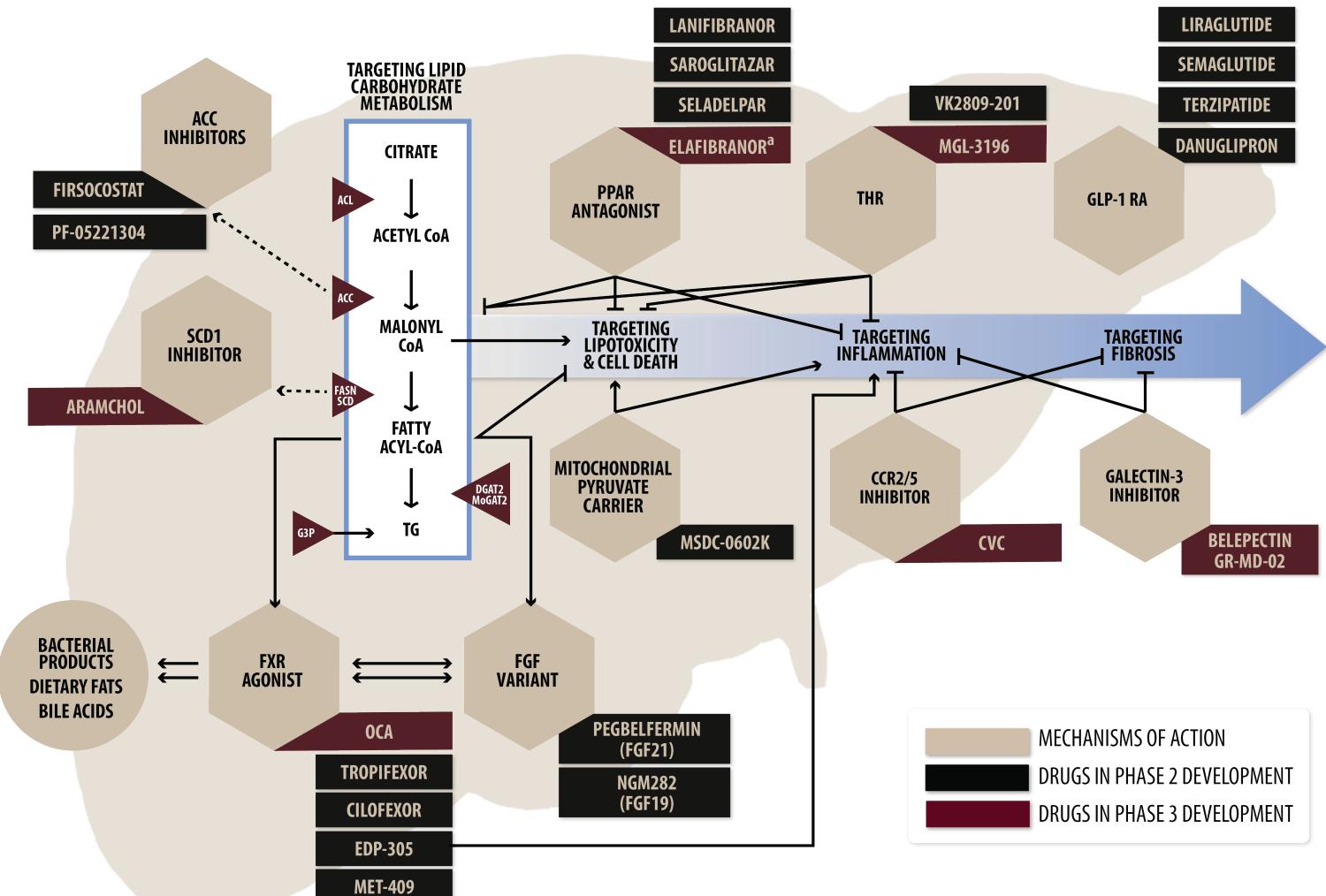


DRUGS IN PHASE 2 AND PHASE 3 DEVELOPMENT



^aDrug development program closed. ACC: acetyl CoA carboxylase; ACL: adenosine triphosphate-citrate lyase; ALT: alanine aminotransferase; AST: aspartate aminotransferase; CCR: C-C motif chemokine receptor; CVC: cenicriviroc; DGAT2: diacylglycerol O-acyltransferase 2; FASN: fatty acid synthase; FGF: fibroblast growth factor; FXR: farnesoid X receptor; G3P: glycerol-3-phosphate; GGT: gamma-glutamyl transpeptidase; GLP-1 RA: glucagonlike peptide-1 receptor agonist; MoGAT2: monoacylglycerol O-acyltransferase 2; MRI-PDFF: magnetic resonance imaging proton density fat fraction; OCA: obeticholic acid; PPAR: peroxisome proliferator-activated receptor; SCD1: stearoyl-CoA desaturase 1; TG: triglyceride; THR.: thyroid hormone receptor.

TYPES OF TREATMENT

ACCINHIBITOR

 Studied in combination with: o FXR agonist and GLP-1 RA

Reduces de novo lipogenesis and liver fat

FATTY Data for both combination regimens **LIVER** indicate reductions in liver fat

o DGAT2 inhibitor

mitigates serum TG elevations

Combination with DGAT2 inhibitor

PF-05221304

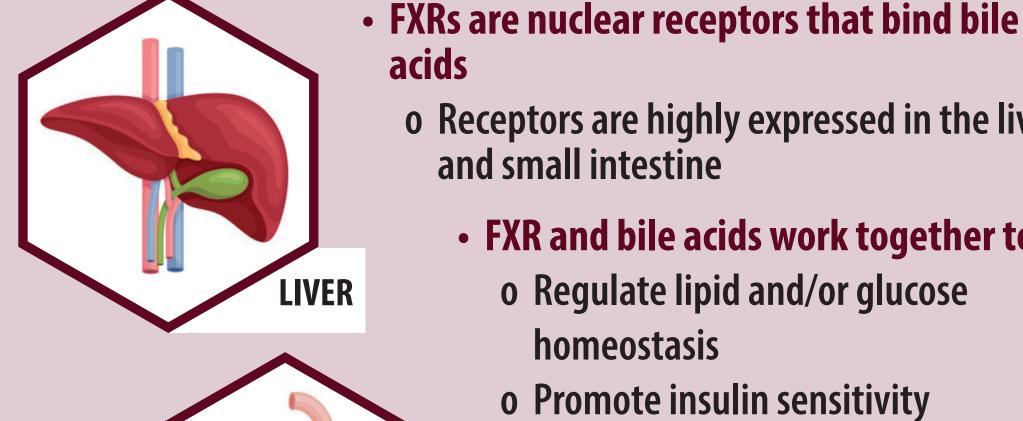
FIRSOCOSTAT



FXR AGONIST

FIBROTIC

LIVER



o Receptors are highly expressed in the liver and small intestine

o Regulate lipid and/or glucose homeostasis

FXR and bile acids work together to:

o Promote insulin sensitivity

- o Potentially modulate liver fibrosis Pharmacologic activation by FXR agonists improves fibrosis in non-alcoholic
- steatohepatitis (NASH)

MET-409

OCA

TROPIFEXOR

CILOFEXOR

EDP-305



FGF analogues are engineered to regulate: o Bile acid synthesis o Glucose homeostasis

acids

o Reduce relative liver fat content o Improve fibrosis without worsening NASH

FGF analogues have been shown to:

PANCREAS o Resolve NASH without worsening fibrosis





GLP-1 RA

GALLBLADDER

inflammation, and fibrosis Increase free fatty-acid synthesis and

Decrease hepatic fat deposition,

GLP-1 RAs are incretin mimetics

sensitivity

Improve hepatic and adipose insulin

PPARs are a family of ligand-activated

metabolic processes

PPARa

transcription factors that regulate several

» Expressed in the liver and other

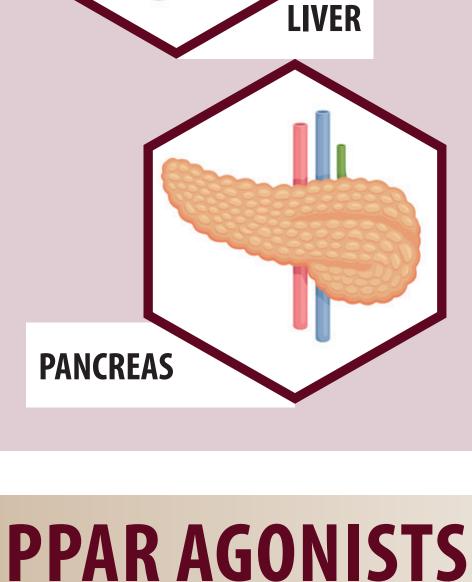
metabolically active tissues

(FGF19)

PEGBELFERMIN

(FGF21)

NGM282



glucose uptake in adipose tissue GLP-1 RAs have been shown to resolve

NASH without worsening fibrosis

DANUGLIPRON

LIRAGLUTIDE

SEMAGLUTIDE

TERZIPATIDE

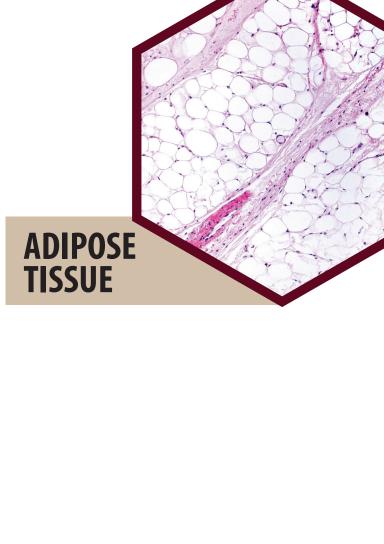
ELAFIBRANOR

SELADELPAR

SAROGLITAZAR

LANIFIBRANOR

LIVER



» Drives expressions of genes that regulate fatty acid β -oxidation, lipid transport, and the hormone FGF21 PPARδ » Highly expressed in hepatocytes

» Lowers lipid levels

» Improves insulin sensitivity » Exerts anti-inflammatory activities in macrophages and Kupffer cells

» Involved in fatty acid oxidation

PPARy » Highly expressed in adipose tissue where they:

» Decreases hepatic glucose production

- Increase glucose uptake - Promote storage of TGs
- Decrease plasma free fatty acids - Induce secretion of anti-inflammatory cytokines
- » Increases insulin sensitivity in multiple organs

PPAR agonists have been shown to:

- o Resolve NASH without worsening fibrosis o Improve fibrosis without worsening NASH

LIVER

CHOLESTEROL

DEPOSIT

THR AGONISTS

 Observations suggest that NASH could be associated with diminished THR levels Liver-specific THR activation has been shown to:

THRβ is highly expressed in the liver

o Regulates liver TG and cholesterol

- o Reduce liver fat o Reduce liver fibrosis
 - o Resolve NASH

References: Boubia B, et al. J Med Chem. 2018;61:2246-2265. Calle RA, et al. Nat Med. 2021;27:1836-1848. Francque SM, et al.

MGL-3196

VK2809-201

metabolism