

GAN-CCL4 rodent models of NASH

The GAN-CCL4 rodent models of advanced NASH with progressive fibrosis.

GAN-CCL4 mouse model

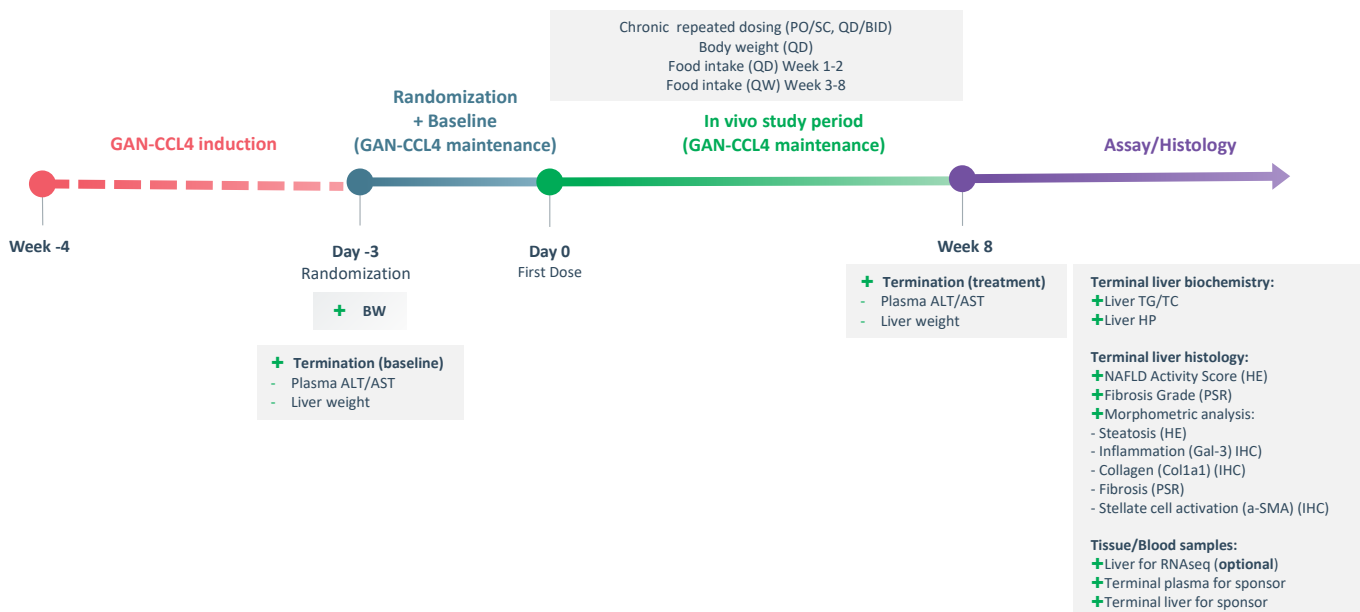
The GAN-CCL4 model is based on GAN diet-induction in combination with CCL4 for 4 weeks prior to study start. The GAN-CCL4 mouse exhibits non-metabolic associated advanced NASH and progressive fibrotic development, objectively evaluated by histopathological assessment including clinically-derived NAFLD Activity Score and Fibrosis Grade.

Key model traits

- GAN diet high in fat, fructose and cholesterol in combination with CCL4 for up to 12 weeks.
- Non-obesity without metabolic disease.
- Early onset of steatosis and fibrosis.
- Fast disease progression to advanced fibrosis and cirrhosis.
- Clinical histopathological endpoints.
- Prophylactic evaluation of drug efficacy.

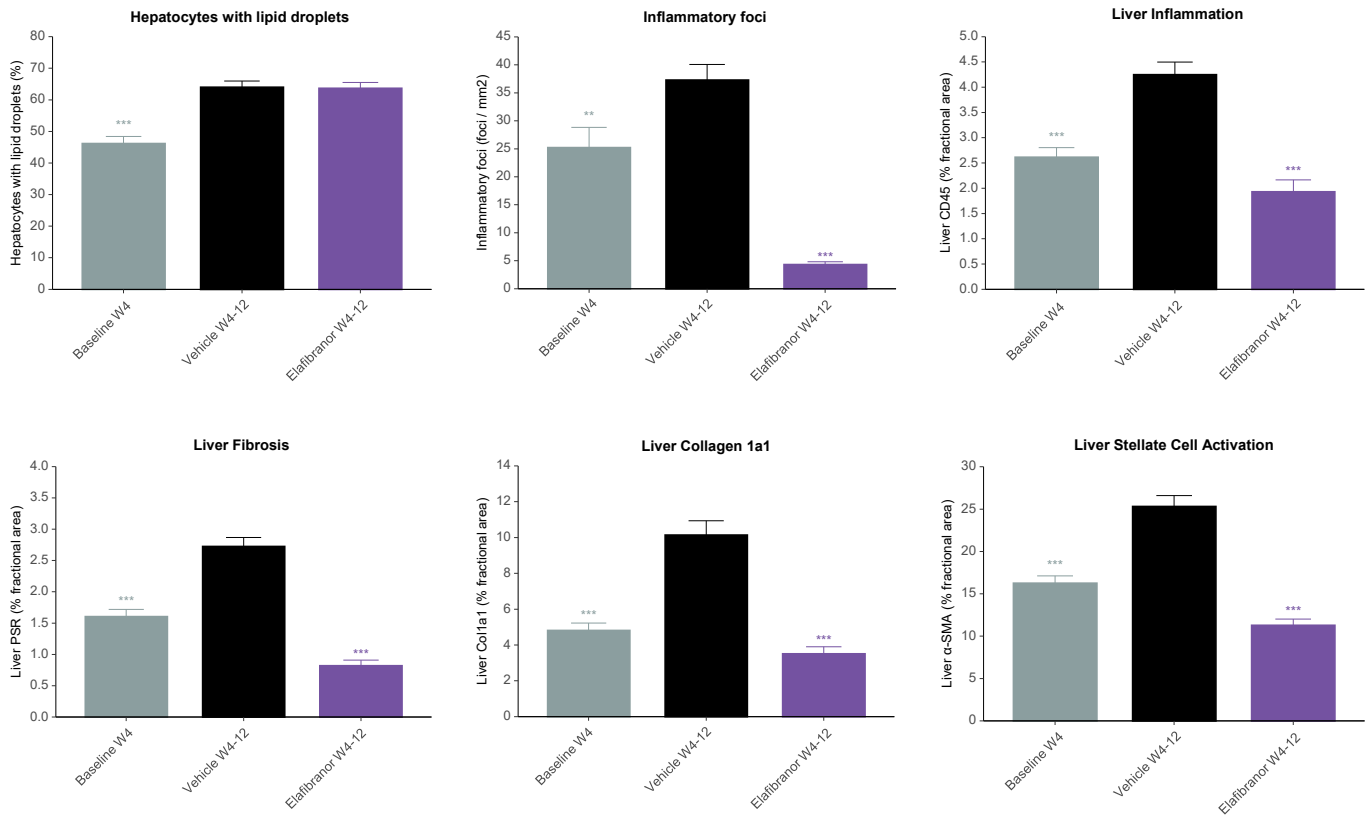
Diet	40% fat (palm oil) 40% carbohydrates (20% fructose) 2% cholesterol	Gubra Amylin NASH (GAN) diet; 09100310 Research diets Mice or rats are dosed (IP, PO) twice weekly with carbon tetrachloride (CCL4, 0.25 ml/kg) during the GAN diet feeding period.
Strain	Male C57BL/6J mice	

Study outline



Histomorphometric evaluation of steatohepatitis and fibrosis

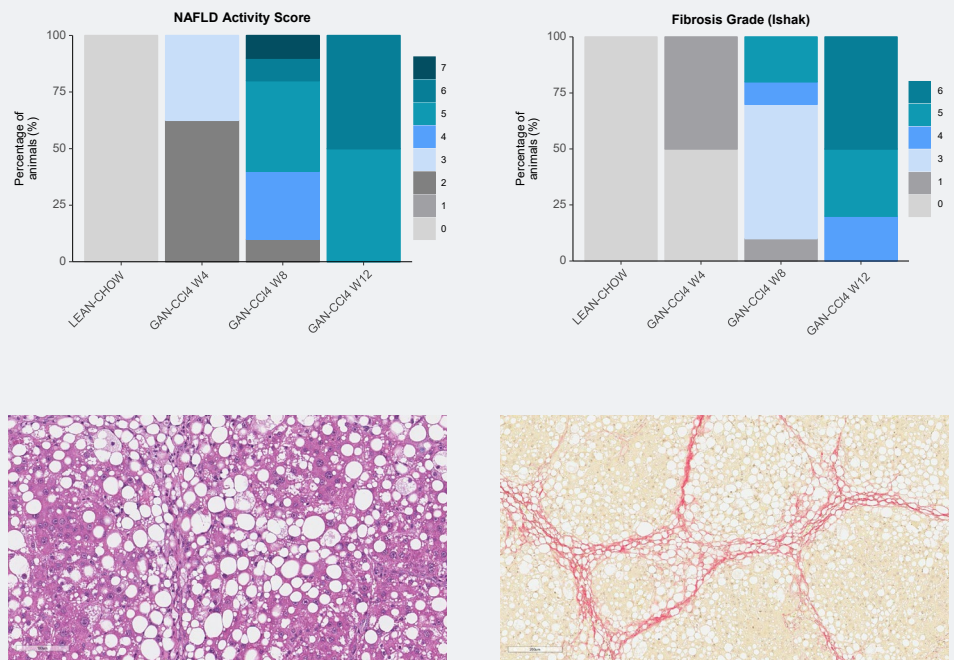
Quantitative assessment of liver steatosis, inflammation and fibrosis by histomorphometric image analysis. Effect of 8 weeks of treatment with the PPAR- α / δ agonist Elafibranor.

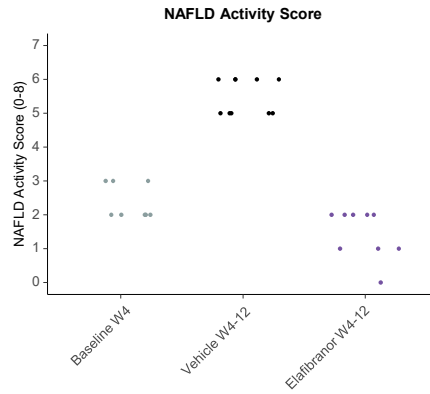
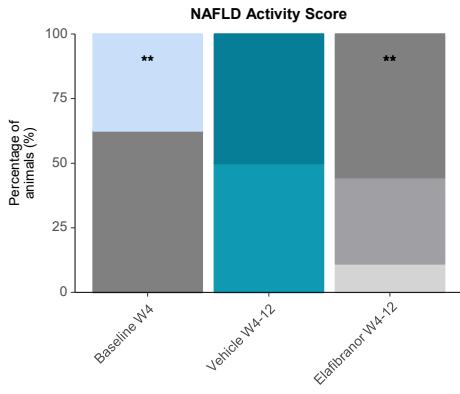


GAN-CCL4 rat model

The GAN-CCL4 rat model is based on GAN diet-induction in combination with CCL4 for 4 weeks prior to study start. GAN-CCL4 rats exhibits non-metabolic associated moderate NASH and progressive fibrotic development, objectively evaluated by histopathological assessment including clinically-derived NAFLD Activity Score and Fibrosis Grade.

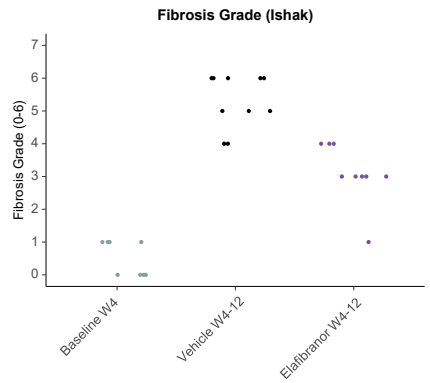
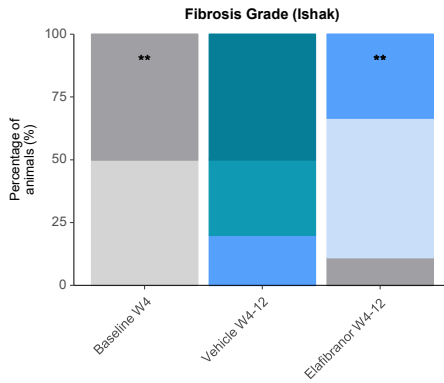
HE and PSR staining





Histopathological NAFLD Activity Score and Fibrosis Grade

Assessment of NAFLD Activity Score and Fibrosis Grade allows for evaluation of individual treatment effects on liver histopathology. Effect of 8 weeks of treatment with the PPAR- α /d agonist Elafibranor.



Histomorphometric evaluation of steatohepatitis and fibrosis

Quantitative assessment of liver steatosis, inflammation and fibrosis by histomorphometric image analysis. Effect of 8 weeks of treatment with the PPAR- α /d agonist Elafibranor.

