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**Manuscript NO:** 48566

**Manuscript Type:** ORIGINAL ARTICLE

*Basic Study*

**Towards a standard diet-induced and biopsy-confirmed mouse model of non-alcoholic steatohepatitis: Impact of dietary fat source**

Boland ML *et al.* Translational mouse model of non-alcoholic steatohepatitis

Michelle L Boland, Denise Oró, Kirstine S Tølbøl, Sebastian T Thrane, Jens Christian Nielsen, Taylor S Cohen, David E Tabor, Fiona Fernandes, Andrey Tovchigrechko, Sanne S Veidal, Paul Warrener, Bret R Sellman, Jacob Jelsing,

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The **human NAS** system (see above) is largely reproducible in **NAFLD mouse models** [37] and, therefore, has been increasingly applied in the preclinical assessment of **liver** histological responses to test ...

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## In Vitro and in Vivo Models of Non-Alcoholic Fatty Liver ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) › ... › Int J Mol Sci › v.14(6); 2013 Jun

Jun 05, 2013 · Abstract. By now, **non-alcoholic fatty liver disease** (NAFLD) is considered to be among the most common **liver diseases world-wide**. NAFLD encompasses a broad spectrum of pathological conditions ranging from simple steatosis to steatohepatitis, **fibrosis** and finally even cirrhosis; however, only a minority of patients progress to end-stages...

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Author: Giridhar Kanuri, Ina Bergheim

Publish Year: 2013

## Progression and Regression of Hepatic Lesions in a Mouse ...

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Progression and Regression of Hepatic Lesions in a **Mouse Model** of NASH Induced by Dietary Intervention and Its Implications in Pharmacotherapy Zhi-Ming Ding 1 , Yue Xiao 1 , Xikun Wu 1 , Haixia Zou 1 , Shurong Yang 1 , Yiyun Shen 1 , Juehua Xu 1 , Heather C. Workman 2 , ...

Cited by: 1

Author: Zhi-Ming Ding, Yue Xiao, Xikun Wu, Haixi...

Publish Year: 2018

## Fast food diet mouse: novel small animal model of NASH ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) › ... › Am J Physiol Gastrointest Liver Physiol

Aug 11, 2011 · Overfeeding with **fat** in a **mouse** strain susceptible to obesity and insulin resistance has produced encouraging results. A **model** of a high-fat diet in male C57BL/6J mice led to the development of features of the metabolic syndrome and **steatohepatitis** but only mild fibrosis after 50 wk . A **model** utilizing male C57BL/6 mice that were fed high-fat ...

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## Mouse models of nonalcoholic steatohepatitis in ...

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A diet-induced animal model of non-alcoholic fatty liver disease and hepatocellular cancer

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Author: Henrik H. Hansen, Michael Feigh, Sanne ...

Publish Year: 2017

## Lessons from Mouse Models of High-Fat Diet-Induced NAFLD

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3856002>

Oct 24, 2013 · **Mouse Models** of High-Fat Diet-Induced NAFLD/NASH ... and the results depend on the rodent strain, the **fat** content of the diet, the composition of the **dietary fat**, ... Heilig J.S., et al. **Diet-induced mouse model** of fatty liver disease and **non-alcoholic steatohepatitis** reflecting clinical disease progression and methods of assessment. Am. J. ...

Cited by: 120

Author: Akinobu Nakamura, Yasuo Terauchi

Publish Year: 2013

## Obese diet-induced mouse models of nonalcoholic ...

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AIM To characterize the efficacy of the dual FXR/TGR5 **receptor agonist** INT-767 upon histological endpoints in a rodent model of diet-induced and **biopsy-confirmed non-alcoholic steatohepatitis** ...

## In Vitro and in Vivo Models of Non-Alcoholic Fatty Liver ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3709766>

Jun 05, 2013 · In the complex architecture of in vivo hepatic tissue the interaction of two or more cells is a common phenomenon. Accordingly, reproducing these settings in in vitro experiments can be a reliable **model** to investigate the **cell to cell** interaction in the progression of disease.

Cited by: 160

Author: Giridhar Kanuri, Ina Bergheim

Publish Year: 2013

## Mistakes in mouse models of nonalcoholic steatophepatitis ...

<https://www.ueg.eu/education/latest-news/article/article/3173> ▾

Diet **composition** for **animal models** of NASH varies markedly in the published literature, with the **fat** source being either lard, butter or coconut, olive, corn and soybean oil, among others. 15 These distinct **fat** sources have different compositions in terms of **fatty acids** (polyunsaturated [PUFA], monounsaturated [MUFA], saturated [SFA], and trans [TFA]), which undergo distinct metabolic ...



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<https://www.sciencedirect.com/science/article/pii/S1359644617300272>

The NASH-inducing properties of the CD diet can be enhanced by a higher dietary fat content (60% fat kcal, CDHF model), ... elafibranor and obeticholic acid in diet-induced and genetically obese mouse models of biopsy-confirmed NASH. ... et al. Salsalate attenuates diet induced non-alcoholic steatohepatitis in mice by decreasing lipogenic and ...

Cited by: 24

Author: Henrik H. Hansen, Michael Feigh, Sanne ...

Publish Year: 2017

## Lessons from Mouse Models of High-Fat Diet-Induced NAFLD

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3856002>

Oct 24, 2013 · Mouse Models of High-Fat Diet-Induced NAFLD/NASH ... and the results depend on the rodent strain, the fat content of the diet, the composition of the dietary fat, ... Heilig J.S., et al. Diet-induced mouse model of fatty liver disease and non-alcoholic steatohepatitis reflecting clinical disease progression and methods of assessment. Am. J. ...

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Publish Year: 2013

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Obese diet-induced mouse models of nonalcoholic steatohepatitis-tracking disease by liver biopsy  
Article in World Journal of Hepatology 8(16):673 · June 2016 with 84 Reads DOI: 10.4254/wjh.v8.i16.673

## Non-Alcoholic Steatohepatitis: Limited Available Treatment ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4532706>

Jul 23, 2015 · The prevalence of non-alcoholic fatty liver disease (NAFLD) and non-alcoholic steatohepatitis (NASH) is increasing world-wide in parallel to the increase of the obesity epidemic. Insulin resistance (IR) and the accumulation of triglyceride-derived toxic lipid metabolites play a key role in its pathogenesis.

Cited by: 31

Author: Claudia Filozof, Barry J. Goldstein, Richa...

Publish Year: 2015

## Mistakes in mouse models of nonalcoholic steatophepatitis ...

<https://www.ueg.eu/education/latest-news/article/article/3173> ▾

A diet-induced animal model of non-alcoholic fatty liver disease and hepatocellular cancer. J Hepatol 2016; 65: 579–588. Ganz M, Csak T and Szabo G. High fat diet feeding results in gender specific steatohepatitis and inflammasome activation.