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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...

Cited by: 147

Author: Giridhar Kanuri, Ina Bergheim

Publish Year: 2013

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

<https://www.frontiersin.org/articles/10.3389/fphar.2018.00410/full> ▾

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 ...

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

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

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. ...

Cited by: 120 Author: Akinobu Nakamura, Yasuo Terauchi

Publish Year: 2013

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

[https://www.researchgate.net/publication/303770514\\_Obese\\_diet-induced\\_mouse\\_models\\_of...](https://www.researchgate.net/publication/303770514_Obese_diet-induced_mouse_models_of...)

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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### Mouse models of nonalcoholic steatohepatitis in ...

<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), ... elafibrator 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. ...

Cited by: 120 Author: Akinobu Nakamura, Yasuo Terauchi

Publish Year: 2013

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

[https://www.researchgate.net/publication/303770514\\_Obese\\_diet-induced\\_mouse\\_models\\_of...](https://www.researchgate.net/publication/303770514_Obese_diet-induced_mouse_models_of...)

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.