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Basic Study

Single amino acid mutant of SR-BI decreases the infectivity of HCVcc in cell culture model

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Abstract

AIM

To study the effect of a single amino acid mutation in Human class B scavenger receptor I (SR-BI) on the infectivity of HCVcc (cell culture-derived

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[Hypervariable Region 1 Deletion and Required Adaptive Envelope ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3911595/)<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3911595/>

Hypervariable region 1 (HVR1) of envelope protein 2 (E2) of **hepatitis C virus (HCV)** ... envelope **mutations** appeared to be involved in LDLr and **SR-BI** dependency, ... by ~30% and ~20%, respectively, at the nucleotide and **amino acid** levels (2). ... Spread of H77/JFH1 and S52/JFH1 in **cell culture** was previously shown to ...

[Successful anti-SR-BI mAb therapy in humanized mice after ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4211977/)<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4211977/>

30 Jul 2014 ... **SR-BI** is involved in **HCV** cell entry based on both its physiological lipid ... resistant to **SR-BI**-blocking anti-**HCV** therapy in **cell culture** (17–21). ... the mouse CD81-adapted Jc1 virus carrying **amino acid** changes in ... **HCV infection** with the wild type and **mutant** viruses whereas in vitro this was not the case.

[\[PDF\] Hepatitis C virus cell entry - Journal of General Virology](http://jgv.microbiologyresearch.org/content/vir.0.008300-0?)[jgv.microbiologyresearch.org/content/vir.0.008300-0?...](http://jgv.microbiologyresearch.org/content/vir.0.008300-0?)

receptor **SR-BI**, and tight junction molecules Claudin-1 and occludin are the main receptors that mediate ... **HCV** has a **single-** stranded ... encoding a polyprotein of about 3000 **amino acids** (aa), which is ... Recent advances in **cell culture models** have significantly and sE2, and **reduces HCVpp infectivity** (Bartosch et al.,

[Tupaia CD81, SR-BI, Claudin-1, and Occludin Support Hepatitis C ...](http://jvi.asm.org/content/85/6/2793.full)jvi.asm.org/content/85/6/2793.full

PTHs could be infected by **cell culture**-produced **HCV** (HCVcc) and did produce ... can serve as a small-animal **model** for **HCV infection**, tupaia CD81, **SR-BI**, ... Four **amino acids** in the extracellular loop 2 (EL2) of human OCLN were **mutated** so anti-CD81 MAb 5A6 or polyclonal antibodies **decreased HCVpp infectivity** to ...

[Three Different Functional Microdomains in the Hepatitis C Virus ...](#)

A single amino acid mutant of SR-BI decreases the infectivity of HCVcc in cell cul



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[PDF] [Dear Editor](#),

www.lcgdbzz.org/UpFiles/Article/201292791413.pdf

binding of the envelope protein to SR-BI. Mutations ... HVR1 markedly decreased the infectivity of HCV pseudoparticles (HCVpp) and cell culture produced HCV (HCVcc) ... functional role of amino acid stretches or single residues ... using the HCVcc model system. Our data ... E1E2 sequences with HVR1 deletion mutations.

[The SR-BI Partner PDZK1 Facilitates Hepatitis C Virus Entry - PLOS](#)

journals.plos.org/plospathogens/article?id=10.1371/journal...

7 Oct 2010 ... Author Summary Hepatitis C virus (HCV) infection is a major cause of ... In contrast a similar chimera lacking the final amino acid of SR-BI ... [5], and the infectious HCV cell culture (HCVcc) system, in which the ... Given our observations that PDZK1 knockdown is associated with decreased HCV entry levels ...

[Receptor Complementation and Mutagenesis Reveal SR-BI as an ...](#)

journals.plos.org/plospathogens/article?id=10.1371/journal...

20 Feb 2009 ... Here, we identify one hepatoma rat cell line, in which SR-BI ... By expressing different SR-BI mutants in either cell line, our results ... Using HCVpp and HCVcc infection assays as well as in vitro ... a 27 amino-acid peptide located at the amino-terminus of E2. ... Yet, while HCV RNA decreased again by ca.

[CD81 and Hepatitis C Virus \(HCV\) Infection](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3939471/>

6 Feb 2014 ... The Scavenger Receptor class B type 1 (SR-BI) [17], the tight junction ... These particles named HCVcc, for cell culture derived HCV, are ... In addition, the use of CD81 variants mutated for one of the amino acids that differ ... In this model, the E2 protein is organized in three domains: DI, DII and DIII. Most of ...

[Successful anti-SR-BI mAb therapy in humanized mice after ... - NCBI](#)



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2014年7月30日 - SR-BI is involved in HCV cell entry based on both its physiological lipid ... resistant to SR-BI-blocking anti-HCV therapy in cell culture (17-21). ... the mouse CD81-adapted Jc1 virus carrying amino acid changes in ... HCV infection with the wild type and mutant viruses whereas in vitro this was not the case.

Characterization of Hepatitis C Virus Particle Subpopulations Reveals ...

www.jbc.org/content/287/37/31242.full - 翻译此页

作者: VLD Thi - 2012 - 被引用次数: 80 - 相关文章

2012年9月7日 - One of these molecules is the scavenger receptor BI (SR-BI), ... Similar to ex vivo HCV particles, in vitro produced HCV particles, i.e. cell culture produced HCV (HCVcc), ... Using cell entry