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Name of Journal: *World Journal of Hepatology*

ESPS Manuscript NO: 24677

Manuscript Type: ORIGINAL ARTICLE

### Basic Study

Assembly and release of infectious hepatitis C virus involving unusual organization of the secretory pathway

**1** Miriam Triyatni, Edward A. Berger, Bertrand Saunier

### Abstract

We previously demonstrated **3** that the intracellular environment generated by a West-Nile virus (WNV) subgenomic replicon rendered non-human, non-hepatic mammalian cells **3** permissive for assembly and release of infectious hepatitis C virus (HCV) particles of various genotypes wherein the HCV genome is generated in the cytoplasm independently of its replication machinery. HCV production did not require ongoing activity of the WNV replicon, but instead was associated with persisting replicon-induced changes in the cellular environment. Both ARF1 and the maturation of carbohydrates on envelope proteins of released HCV particles were required for the **1** production of infectious HCV by permissive BHK-WNV cells, suggesting that a classical secretion pathway is involved.



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作者: BD Lindenbach - 2013 - 被引用次数: 83 - 相关文章

2013年9月10日 - **Hepatitis C virus**, a major human pathogen, produces **infectious** ... process of virus **entry**, and a **pathway** of virus **assembly and release** that is closely linked to lipoprotein **secretion**. .... All viruses in the family Flaviviridae have similarities in genome **organization** and overlapping aspects of **viral** replication.

### Virion Assembly and Release

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作者: BD Lindenbach - 2013 - 被引用次数: 43 - 相关文章

**Hepatitis C virus** (HCV) particles exhibit several **unusual** properties that are not ... The process of virus **assembly involves** protein-protein interactions between **viral** ... into virus particles that co-traffic within the **secretory pathway** in association ..... bonds in glycoprotein E2 of **hepatitis C virus** reveal the tertiary **organization** of ...

### Virology and cell biology of the hepatitis C virus life cycle ...

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作者: J Dubuisson - 2014 - 被引用次数: 20 - 相关文章

2014年11月3日 - **Hepatitis C virus** (HCV) is an important human pathogen that causes ... on HCV life cycle and interaction with host factors and pathways. .... VLDL **secretory pathway** also regulate the production of **infectious** HCV particles [157] and [158]. ... After **assembly** and budding in the ER, HCV particles are **released** ...

### Hepatitis C Virus RNA Replication and Assembly: Living on ...

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作者: D Paul - 2014 - 被引用次数: 23 - 相关文章

2014年11月12日 - **Infections** by the **hepatitis C virus** (HCV) are characterized by a high rate of chronicity. ... Upon **release** into the cytoplasm, the ~9.6 kb single-stranded RNA genome of positive polarity is ... Finally, virions exit the cell via the **secretory pathway**. HCV ... HCV Genome **Organization** and Polyprotein Processing.



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作者: D Paul - 2014 - 被引用次数: 35 - [相关文章](#)

2014年11月12日 - **Infections** by the **hepatitis C virus** (HCV) are characterized by a high rate of chronicity. ... HCV enters the cell by receptor-mediated endocytosis **involving** multiple cell ... Upon **release** into the cytoplasm, the ~9.6 kb single-stranded RNA genome of ... Finally, virions exit the cell via the **secretory pathway**.

### Virion Assembly and Release - NCBI - National Institutes of Health

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作者: BD Lindenbach - 2013 - 被引用次数: 51 - [相关文章](#)

**Hepatitis C virus** (HCV) particles exhibit several **unusual** properties that are not ... The process of virus **assembly involves** protein-protein interactions between **viral** ... into virus particles that co-traffic within the **secretory pathway** in association ... bonds in glycoprotein E2 of **hepatitis C virus** reveal the tertiary **organization** of ...

### The ins and outs of hepatitis C virus entry and assembly - NCBI

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作者: BD Lindenbach - 2013 - 被引用次数: 105 - [相关文章](#)

2013年9月10日 - **Hepatitis C virus**, a major human pathogen, produces **infectious** virus ... process of virus entry, and a **pathway** of virus **assembly and release** that is closely linked to lipoprotein **secretion**. ... All viruses in the Flaviviridae share similarities in genome **organization** and overlapping aspects of **viral** replication.

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作者: G Vieyres - 2014 - 被引用次数: 23 - [相关文章](#)

2014年3月11日 - Keywords: **hepatitis C virus**, envelope, E1, E2, **assembly**, glycoprotein, budding ...



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### Hepatitis C Virus RNA Replication and Assembly: Living on the Fat of ...

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作者: D Paul - 2014 - [被引用次数: 36](#) - [相关文章](#)

2014年11月12日 - *Infections* by the hepatitis C virus (HCV) are characterized by a high rate of chronicity. ... HCV enters the cell by receptor-mediated endocytosis involving multiple cell ... Upon release into the cytoplasm, the ~9.6 kb single-stranded RNA genome of ... Finally, virions exit the cell via the secretory pathway.

### Virion Assembly and Release - NCBI - National Institutes of Health

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作者: BD Lindenbach - 2013 - [被引用次数: 51](#) - [相关文章](#)

Hepatitis C virus (HCV) particles exhibit several unusual properties that are not ... The process of virus assembly involves protein-protein interactions between viral ... into virus particles that co-traffic within the secretory pathway in association ..... bonds in glycoprotein E2 of hepatitis C virus reveal the tertiary organization of ...

### The ins and outs of hepatitis C virus entry and assembly - NCBI

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作者: BD Lindenbach - 2013 - [被引用次数: 107](#) - [相关文章](#)

2013年9月10日 - Hepatitis C virus, a major human pathogen, produces infectious virus ... process of virus entry, and a pathway of virus assembly and release that is closely linked to lipoprotein secretion. ... All viruses in the Flaviviridae share similarities in genome organization and overlapping aspects of viral replication.

### Last Stop Before Exit – Hepatitis C Assembly and Release as Antiviral ...

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