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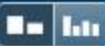
**Manuscript Type:** MINIREVIEWS

**Form confers function:** Case of the 3'X region of the hepatitis C virus genome

Dutkiewicz M *et al.*, Structural forms of the 3'X region

Mariola Dutkiewicz, Jerzy Ciesiołka

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## Hepatitis C Virus-Encoded Enzymatic Activities and Conserved RNA ...

[jvi.asm.org/content/74/4/2046.full](http://jvi.asm.org/content/74/4/2046.full) ▼ [翻译此页](#)作者: AA Kolykhalov - 2000 - [被引用次数: 748](#) - [相关文章](#)

We examined the four known HCV-encoded enzymes that are being actively pursued as antiviral targets. The two viral proteases mediate cleavages in the NS region that are thought to be necessary to form a functional RNA replicase. In the case of the NS3 serine protease, which is common to all members of the family ...

## Mutations in Hepatitis C Virus RNAs Conferring Cell Culture Adaptation

[jvi.asm.org/content/75/3/1437.full](http://jvi.asm.org/content/75/3/1437.full) ▼ [翻译此页](#)作者: V Lohmann - 2001 - [被引用次数: 536](#) - [相关文章](#)

These viruses have in common a single-stranded RNA genome of positive polarity carrying one long open reading frame (ORF) that is flanked at the 5' and 3' ends by nontranslated regions (NTRs). In HCV, the genome has a length of ~9,600 nucleotides and encodes a ~3,000-amino-acid-long polyprotein carrying the ...

## The 3'-Untranslated Region of Hepatitis C Virus RNA Enhances ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC110295/> ▼ [翻译此页](#)作者: T Ito - 1998 - [被引用次数: 243](#) - [相关文章](#)

Hepatitis C virus (HCV) contains a positive-stranded RNA genome which does not have a poly(A) tail but has a stretch of 98 nucleotides (X region) at the 3'-untranslated ... Each of these elements works by associating with a specific RNA-binding protein, and together they function synergistically to stimulate



Form confers function: Case of the 3'X region of the hepatitis C virus genome



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### Kissing-loop interaction in the 3' end of the hepatitis C virus genome essential for RNA replication

[HTML] asm.org

P Friebe, J Boudet, JP Simorre... - Journal of ..., 2005 - Am Soc Microbiol

... The latter has the potential to form three stem-loop (SL) structures, of which the ... would alter the amino acid sequence of NS5B and thereby might interfere with its function ... of NS5A that encompasses the interferon sensitivity-determining region (ISDR) and that confers cell culture ...

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### Genetic analysis of sequences in the 3' nontranslated region of hepatitis C virus that are important for RNA replication

[HTML] asm.org

P Friebe, R Bartenschlager - Journal of virology, 2002 - Am Soc Microbiol

... NS4A is an important cofactor of the NS3 proteinase, and it must form a heterodimeric ... convincingly shows that this coding region is not directly involved in IRES function but rather ... of this sequence forms regular Watson-Crick base pairs, the terminal nucleotide forms an irregular ...

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### The 3'-untranslated region of hepatitis C virus RNA enhances translation from an internal ribosomal entry site

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T Ito, SM Tahara, MMC Lai - Journal of virology, 1998 - Am Soc Microbiol

... The 5'-UTR of HCV RNA has been shown to form extensive secondary structures (6, 37 ... poly(UC) stretch plus a conserved X region at the 3' end (22,33), which forms a three ... Whether the function of the X region is mediated through PTB by a mechanism similar to that of poly(A) ...

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### Hepatitis E virus (HEV): molecular cloning and sequencing of the full-length viral genome

AW Tam, MM Smith, ME Guerra, CC Huang... - Virology, 1991 - Elsevier

is (HDV); this co-infection results in a high proportion of cases



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## Mutations in Hepatitis C Virus RNAs Conferring Cell Culture Adaptation

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC114050/> - 翻译此页

作者: V Lohmann - 2001 - 被引用次数: 538 - 相关文章

These replicons lacked the **region** encoding the structural proteins and instead carried ... The **Hepatitis C virus** (HCV) is a distinct member of the family Flaviviridae, ... These viruses have in common a single-stranded RNA **genome** of positive ..... Sequence analysis of cell culture-adapted HCV RNAs and **functional** testing.

## The 3'-Untranslated Region of Hepatitis C Virus RNA Enhances ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC110295/> - 翻译此页

作者: T Ito - 1998 - 被引用次数: 243 - 相关文章

**Hepatitis C virus** (HCV) contains a positive-stranded RNA **genome** which ... The 5'-UTR of HCV RNA has been shown to **form** extensive secondary ... the X **region** of HCV 3'-UTR plays a **role** in the IRES-dependent translation of HCV RNA. .... be involved in the translational enhancement by the X **region** in both **cases**.

## Hepatitis C Virus-Encoded Enzymatic Activities and Conserved RNA ...

[jvi.asm.org/content/74/4/2046.full](http://jvi.asm.org/content/74/4/2046.full) - 翻译此页

作者: AA Kolykhalov - 2000 - 被引用次数: 750 - 相关文章

**Hepatitis C virus** (HCV) infection is a widespread major human health concern. ... In the **case** of HCV, it has been assumed that conserved features are essential, ... (A) The HCV **genome** organization is shown at the top with 5' and 3' NTRs .... NS **region** that are thought to be necessary to **form** a **functional** RNA replicase.

## Replication of hepatitis C virus - Journal of General Virology

[jgv.microbiologyresearch.org/content/journal/.../0022-1317-81-7-1631?...](http://jgv.microbiologyresearch.org/content/journal/.../0022-1317-81-7-1631?...) - 翻译此页

作者: R Bartenschlager - 2000 - 被引用次数: 961 - 相关文章

about 50% of all **cases** to chronic **hepatitis**, which can develop into chronic active ... a "340 nucleotide long 5h non-translated **region** (NTR) ... complexes: a disulfide-linked **form** representing misfolded ... essential for translation and replication of the **HCV genome** ... **functions** like inhibition of protein kinase A-mediated signal.