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Inter-regulatory role of miRNAs in interaction between viruses and

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<https://www.ncbi.nlm.nih.gov/pubmed/31523484>  
Aug 15, 2019 · The target prediction of the DE miRNAs using TargetScan-Human, TarBase and miRecords databases identified 1,842 mRNA targets that were DE between LCLs and their reprogrammed iPSCs. The functional annotation, upstream regulator and gene expression analysis of the predicted DE mRNA targets suggest the role of DE miRNAs in regulating EBV induced changes in ...  
Author: Satish Kumar, Erika C Espinosa, Ana ... Publish Year: 2019

**Five Questions about Viruses and MicroRNAs**  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2829071>  
Moreover, there have been several reports demonstrating that cellular miRNAs can inhibit virus

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A microRNA (abbreviated miRNA) is a small single-... 

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2829071>  
Feb 26, 2010 As miR-155 can promote the oncogenic transformation of B cells when overexpressed in vivo, it is likely that miR-155 induction by EBV, or expression of a miR-155 mimic by KSHV, plays a role no...  
Cited by: 106 Author: Bryan R. Cullen  
Publish Year: 2010

**microRNAs regulate human embryonic stem cell division**  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2925126>  
Nov 15, 2009 Among other processes, miRNAs have been shown to function in stem cell division, maintenance and differentiation. 15, 78, 79 Accordingly, some miRNAs are differentially expressed in...  
Cited by: 165 Author: Junlin Qi, Jenn Yah Yu, Halyna R. Shcherba...  
Publish Year: 2009

**Viruses and microRNAs | Nature Genetics**  
<https://www.nature.com/articles/ng1793>  
May 30, 2006 If this is the case, then one can predict that viruses that replicate in a specific tissue, for example, human immunodeficiency virus in CD4+ lymphoid cells, would have been selected to contain ...  
Cited by: 567 Author: Bryan R Cullen  
Publish Year: 2006

**microRNAs Create Regulatory Tension in Mammalian Blood Cells**  
<https://www.ibiology.org/immunology/microRNAs-and-inflammatory-response>  
00:10:02:20 extract the cells from that, and then we put into those cells virus particles that encode, 00:10:12:15 in this case, microRNA-132. 00:10:16:26 Now the stem cells are making large amounts of...  
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**Viruses, microRNAs and cancer | Oncogene**  
<https://www.nature.com/articles/1209915>  
Oct 09, 2006 Viruses represent one of the main factors that cause normal cells to proliferate and to become malignant: up to 15% of all human cancers are associated with single or multiple virus infection...  
Cited by: 131 Author: S Pfeffer, O Voinnet  
Publish Year: 2006 Estimated Reading Time: 8 mins

**Review Virus-Encoded microRNAs: Future Therapeutic Targets?**  
[www.cmi.ustc.edu.cn/3/6/411.pdf](http://www.cmi.ustc.edu.cn/3/6/411.pdf)  
gene regulation. Research into viral miRNAs function demonstrates that some miRNAs play an important role in regulating both the viral life cycle and the interaction between viruses and their ...

**Frontiers | The Interplay Between Viral-Derived miRNAs and ...**  
<https://www.frontiersin.org/articles/10.3389/fimmu.2019.03079>

**Introduction** Discovery and Origin of Viral miRNAs V-Mimas in DNA Viruses

Until the twenty first century, it was assumed that more than 95% of the eukaryotic genome is "junk" DNA, however, the advent of next-generation sequencing and high throughput functional screening has highlighted the regulatory functions of the non-coding genome. Around 50–85% of the mammalian genome is transcribed, with at least some non-coding RNA transcript, which includes microRNA (miRNA), siRNA, piwi-interac...  
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**MicroRNome Analysis Unravels the Molecular Basis of SARS ...**  
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0007837>  
Nov 13, 2009 Onset of SARS infection. The entry of SARS-CoV into cells is mediated through interaction between spike (S) glycoprotein of the virus and angiotensin-converting enzyme 2 (ACE2), the primary...

**Study details microRNA's role as double agent during Hep C ...**  
<https://www.sciencedaily.com/releases/2015/03/150312123606.htm>  
Mar 12, 2015 Once inside a liver cell, the hepatitis C virus must bind to miRNA-122 in order to establish a persistent infection. Researchers have now found an unanticipated consequence of this interaction...

**MicroRNA miR-21 Attenuates Human Cytomegalovirus ...**  
<https://pubmed.ncbi.nlm.nih.gov/25378484>  
HCMV infection alters expression of cellular microRNAs (miRNAs) and induces cell cycle arrest, which in turn modifies the cellular environment to favor virus replication. Previous observations found that HCMV...

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A microRNA (abbreviated miRNA) is a small single-stranded non-coding RNA molecule (containing about 22 nucleotide...  


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Name of Journal: *World Journal of Stem Cells*  
Manuscript NO: 65063  
Manuscript Type: REVIEW

**Inter-regulatory role of microRNAs in interaction between viruses and stem cells**

Afshari A *et al.* Interaction between viruses and stem cells

Afsoon Afshari, Ramin Yaghoobi, Ghazal Rezaei

**Abstract**

MicroRNAs (miRNAs) are well known for post-transcriptional regulatory ability over specific mRNA targets. miRNAs exhibit temporal or tissue-specific expression patterns and regulate the cell and tissue developmental pathways. They have also determinative roles in producing and differentiation of multiple lineages of stem cells and might have therapeutic advantages. miRNAs are a part of some viruses' regulatory machinery, not a byproduct. The trace of miRNAs was detected in genome of viruses and regulation of

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Inter-regulatory role of microRNAs in interaction between viruses



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### [The roles of microRNAs in mammalian virus infection](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2641032>

MicroRNAs (miRNAs) are post transcriptional regulators of gene expression that are important for the control of a multitude of critical processes in mammalian cells. Increasing evidence supports that miRNAs also have important functions in viral replication and may be used by host cells to control viral infection.

Cited by: 154

Author: Ralph Grassmann, Kuan-Teh Jeang

Publish Year: 2008

### [Host-virus interaction: the antiviral defense function of ...](#)

<https://pubmed.ncbi.nlm.nih.gov/26067353>

Abstract. Small interfering RNAs (siRNAs) directed against poliovirus (PV) and other viruses effectively inhibit viral replication and have been developed as antiviral agents. Here, we demonstrate that a specific siRNA targeting the region between nucleotides 100-125 (siRNA-100) from the 5'-untranslated region (5'-UTR) of PV plays a critical role in inhibiting PV replication.

Cited by: 9

Author: Xiaoying Zhang, Dongyun Liu, Sheng Zha...

Publish Year: 2015

### [IGF-1/IGF-1R/hsa-let-7c axis regulates the committed ...](#)

<https://pubmed.ncbi.nlm.nih.gov/27833148>

However, the interaction between IGF-1/IGF-1R and hsa-let-7c on the committed differentiation of stem cells from apical papilla (SCAPs) remains unclear. In this study, human SCAPs were isolated and treated with IGF-1 and hsa-let-7c over/low-expression viruses.

Cited by: 20

Author: Shu Ma, Genxia Liu, Lin Jin, Xiyao Pang, ...

Publish Year: 2016

### [MicroRNA-Mediated Host-Pathogen Interactions Between ...](#)

<https://www.frontiersin.org/articles/10.3389/fphys.2021.672205>

May 07, 2021 - In one study, miRNAs' role in host specificity was examined as miRNAs regulate the virus-host interaction. The downregulation of several genes determined the specificity. The screening of miRNA induced by AcMNPV infection combined with NGS predicts possible regulation networks indicating that these are also involved in the host specification of the virus ( Chen et al., 2018 ).