

Name of Journal: *World Journal of Virology*

ESPS Manuscript NO: 22470

Manuscript Type: Review

ICP0 Functional Domains and Their Coordination in HSV Replication

Haidong Gu

Abstract

Herpes simplex virus 1 (HSV-1) is a ubiquitous human pathogen that establishes latent infection in ganglia neurons. Its unique life cycle requires a balanced "conquer and compromise" strategy to deal with the host anti-viral defenses. One of HSV-1 (immediate early) gene products, infected cell protein 0 (ICP0), is a multifunctional protein that interacts with and modulates a wide range of cellular defensive pathways. These pathways may locate in different cell compartments, which migrate or exchange

Match Overview

1	CrossCheck 33 words Gu, H., Y. Zheng, and B. Roizman. "Interaction of Herpes Simplex Virus ICP0 with ND10 Bodies: a Sequential Pr ...	1%
2	CrossCheck 26 words K. S. Ellison. "Processing of alpha -Globin and ICP0 m ... NA in Cells Infected with Herpes Simplex Virus Type 1 IC	<1%
3	CrossCheck 26 words Mingyu Liu. "ICP0 Dismantles Microtubule Networks in ... erpes Simplex Virus-Infected Cells", PLoS ONE, 06/08/2	<1%
4	CrossCheck 20 words Miles C Smith. "HSV-1 ICP0: paving the way for viral repl ... ication", Future Virology, 04/2011	<1%
5	Publications 12 words Gualtieri, Alvisi; Jans, David A.; Camozzi, Daria; Avanzi, ... Simone; Loregian, Arianna; Ripalti, Alessandro and Pal	<1%
6	CrossCheck 11 words Bakkenist, Christopher J, and Cyrus Vaziri. "Stoichiome ... y of ubiquitin-binding proteins directs DSB repair", Cell C	<1%
7	Internet 10 words crawled on 05-Apr-2015	<1%

[Web](#)[Images](#)[Shopping](#)[More ▾](#)[Tools](#)[SafeSearch ▾](#)

About 25,800 results

Web Results

[The Herpes Simplex Virus ICP0 RING Finger Domain Inhibits ...](#)[www.ncbi.nlm.nih.gov](#) › [NCBI](#) › [Literature](#) › [PubMed Central \(PMC\)](#) - [Similar](#)

HSV-1 particles contain within their tegument the virion host shut-off protein ... Schematic representation of ICP0 functional domains and mutations used in this study. ... virus FXE) removes several of the essential metal-coordinating residues and ... To determine if replicating HSV-1 induces the hyperphosphorylation of IRF3, ...

[Depletion of Intracellular Zinc Inhibits the Ubiquitin Ligase ...](#)[www.ncbi.nlm.nih.gov](#) › [NCBI](#) › [Literature](#) › [PubMed Central \(PMC\)](#) - [Similar](#)

The viral ubiquitin ligase ICP0 stimulates the onset of HSV-1 lytic infection and productive ... mutations of Zn²⁺ coordinating residues within the RING domain of ICP0 impair its ability ... of ICP0's biochemical ubiquitin ligase activity to that of its functional ... Viral mutants that express ICP0-FXE have replication and reactivation ...

[\[More results from www.ncbi.nlm.nih.gov \]](#)[\[PDF\] The co-chaperone BAG3 regulates Herpes Simplex ...](#)[www.pnas.org/content/105/52/20912.full.pdf](#)

Dec 30, 2008 ... regulated in a tightly coordinated cascade. Control ... their temporal expression during productive replication. The RING finger domain of ICP0 is required for its ... A pseudotyped retrovirus expressing a functional siRNA se-

[HSV-1 as a Model for Emerging Gene Delivery Vehicles](#)[www.hindawi.com/journals/ism/2013/397243/](#) - [Similar](#)

May 10, 2013 ... However, there is now increasingly a need both in research as well as therapy to ... Thus, continued study of the coordinated function of HSV-1 genes will be ... HSV-1 is a human pathogen with two replication modes based on its and ICP0, an E3

学术搜索

找到约 976 条结果 (用时0.08秒)

文章

我的图书馆

时间不限

2015以来

2014以来

2011以来

自定义范围...

按相关性排序

按日期排序

搜索所有网页

中文网页

简体中文网页

☒ 包括专利

☒ 包含引用

创建快讯

小提示: 只搜索中文(简体)结果, 可在 学术搜索设置 指定搜索语言

[HTML] Role of ICP0 in the strategy of conquest of the host cell by herpes simplex virus 1

R Hagglund, B Roizman - Journal of virology, 2004 - Am Soc Microbiol

... ICP0 encodes numerous functional domains, including a nuclear localization signal (residues 474 to 509) (33) and ... CELLS AND EFFECT OF THE PROTEIN ON THE STRUCTURE AND FUNCTION OF THE ... 39, 45, 102, 103, 120), there is no evidence that ICP0 interacts directly ...

被引用次数: 204 相关文章 所有 8 个版本 引用 保存

Mutational analysis of the herpes simplex virus type 1 ICP0 C3HC4 zinc ring finger reveals a requirement for ICP0 in the expression of the essential alpha27 gene.

EK Lium, S Silverstein - Journal of virology, 1997 - Am Soc Microbiol

... were altered by mutagenesis, and the effects of these mutations on ICP0 function were assessed ... mediated transactivation and suggest that these amino acids constitute a functional C3HC4 zinc ... In transfected or infected cells, ICP0 is found predominantly in the nucleus, where it ...

被引用次数: 73 相关文章 所有 7 个版本 引用 保存

Herpes simplex virus type 1 immediate-early protein ICP0 and its isolated RING finger domain act as ubiquitin E3 ligases in vitro

C Boutell, S Sadis, RD Everett - Journal of virology, 2002 - Am Soc Microbiol

... Despite the clear functional data showing that ICP0 stimulates UbcH5a activity, none of these ... ICP0 function was also connected to the ubiquitin pathway by the finding that it partially protects ... and reactivation from quiescence (14), and they change the localization of ICP0 both at ...

被引用次数: 337 相关文章 所有 8 个版本 引用 保存

Point mutations in the herpes simplex virus type 1 Vmw110 RING finger helix affect activation of gene expression, viral growth, and interaction with PML-containing ...

[网页](#)
[图片](#)
[新闻](#)
[视频](#)
[更多 ▾](#)
[搜索工具](#)

找到约 20,300 条结果（用时 0.58 秒）

Google 学术: ICP0 functional domains and their coordination in herpes simplex virus replication

... of conquest of the host cell by herpes simplex virus 1 - Hagglund - 被引用次数: 204

... analysis of the herpes simplex virus type 1 ICP0 ... - Lium - 被引用次数: 73

Herpes simplex virus type 1 immediate-early protein ... - Boutell - 被引用次数: 337

Depletion of Intracellular Zinc Inhibits the Ubiquitin Ligase ...

jvi.asm.org/content/86/7/4029.full ▾ 翻译此页

作者: K Grant - 2012 - 被引用次数: 8 - 相关文章

The viral ubiquitin ligase ICP0 stimulates the onset of HSV-1 lytic infection and ... its C3HC4 RING finger domain, a tertiary structural fold that is coordinated by the ... 1A), replicated with greater efficiency than an ICP0 null mutant virus (18). ... ICP0 Zn²⁺ binding RING mutants may retain a minimal degree of functional activity.

Depletion of Intracellular Zinc Inhibits the Ubiquitin Ligase ...

jvi.asm.org/content/86/7/4029.full.pdf ▾ 翻译此页

作者: K Grant - 2012 - 被引用次数: 8 - 相关文章

2011年11月30日 - of Viral Regulatory Protein ICP0 and Restricts Herpes Simplex Virus. 1 Replication in ... that is required for the efficient initiation of lytic replication and productive ... tions of Zn²⁺ coordinating residues within the RING domain of ICP0 ... biochemical ubiquitin ligase activity to that of its functional requirement ...

Functional Characterization of Residues Required for the ...

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) ▾ 翻译此页

作者: E Vanni - 2012 - 被引用次数: 11 - 相关文章

The herpes simplex virus 1 (HSV-1) immediate-early (IE) protein ICP0 is ... viruses with mutations in the zinc-coordinating C3HC4 consensus residues ... of colocalizing