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## **Viral Proteinases As Targets for Chemotherapy (CURRENT ...**

In the cell, the viral  
RNA is translated to  
encode the viral  
replicase gene and two  
large polyproteins that

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are processed by viral proteases Papain-like protease 2 (PL2pro) and 3C-like protease (3CLpro, also referred to as main protease, Mpro). These cysteine proteases cleave the polyproteins into 15–16 non-structural proteins involved in viral RNA synthesis and replication (4).

**Human and Viral  
proteases as targets  
for SARS-CoV-2 ...**



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1. Curr Pharm Des.  
2013;19(6):1126-53.

Viral proteases as  
targets for drug design.

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Wyspiańskiego 27,  
50-370 Wroclaw,  
Poland. In order to  
productively infect a

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host, viruses must  
enter the cell and force  
host cell replication ...

## **Viral proteases as targets for drug design.**

proteinase. Viral  
proteases as targets  
for chemotherapeutic  
intervention

Christopher U.T. Hellen  
and Eckard Wimmer  
State University of New  
York, Stony Brook, USA  
Many viruses encode  
proteinases that are

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essential for infectivity, and are consequently attractive chemotherapeutic targets. The biochemistry and structure of the human immunodeficiency virus proteinase have been characterized extensively, and potent peptide-mimetic inhibitors have been developed.

**Viral proteases as  
targets for**

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targets for  
chemotherapeutic  
intervention. Hellen  
CU(1), Wimmer E.  
Author information:  
(1)Department of  
Microbiology, State  
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Stony Brook  
11794-8621. Many  
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attractive

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chemotherapeutic  
targets.

**Viral proteases as  
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chemotherapeutic  
intervention.**

In the cell, the viral  
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and 3C-like protease  
(3CLpro, also referred

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to as main protease, Mpro). These cysteine proteases cleave the polyproteins into 15-16 non-structural proteins involved in ...

## **Proteinases as Targets for SARS-CoV-2 Treatment**

Since most viruses encode specific proteases whose cleavage activity is required for viral replication, and whose structure and activity

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are unique to the virus  
and not the host cell,  
these enzymes...

## **(PDF) Viral proteinases: Targets of opportunity**

Many viruses encode  
proteinases that are  
essential for infectivity,  
and are consequently  
attractive  
chemotherapeutic  
targets. The  
biochemistry and  
structure of the human  
immunodeficiency

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virus proteinase have been characterized extensively, and potent peptide-mimetic inhibitors have been developed.

## **Viral proteases as targets for chemotherapeutic ...**

Accordingly, virus-encoded proteases have emerged as new targets for antiviral intervention. Molecular studies have indicated that viral proteases



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play a critical role in the life cycle of many viruses by effecting the cleavage of high-molecular-weight viral polyprotein precursors to yield functional products or by catalyzing the processing of ...

### **Protease Inhibitors as Antiviral Agents**

(Non-Viral) Proteases Involved in Diseases. Front Matter. Pages 205-205. PDF. Host

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Proteinases as Targets  
for Therapeutic  
Intervention. J. C.  
Cheronis. Pages  
207-219. The Role of  
Metalloprotease  
Inhibitors in Cancer  
and Chronic  
Inflammatory Diseases.  
H. S. Rasmussen, K. P.  
Lynch. Pages 221-234.

## **Proteases as Targets for Therapy | SpringerLink**

Title: Viral Proteases as  
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inhibitors, HIV-1, HCV,

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Current  
Flaviviridae, SARS,  
Herpesviridae,  
Adenoviridae.

## **Viral Proteases as Targets for Drug Design | Bentham Science**

Viral proteinases:  
targets of opportunity

Viral proteinases:  
targets of opportunity

Byrd, Chelsea M.;

Hruby, Dennis E.

2006-06-01 00:00:00

During antiviral drug  
development, any

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essential stage of the viral life cycle can serve as a potential drug target. Since most viruses encode specific proteases whose cleavage activity is required for viral replication, and whose structure and activity are unique to the virus and not the host cell, these enzymes make excellent targets for drug development.

### **Viral proteinases:**

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1. In Addition to the Capsid-Binding, Proteinase, and Polymerase Targets Described Above, the Following Poliovirus Components Could Be Promising Targets for Antiviral Drugs: 2C is an ATPase that is crucial for viral replication (Pfister and Wimmer 1999). High-throughput assays to screen for inhibition of

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its activity could be readily designed.

### **3 Potential Biological Targets for Polio Antiviral Drugs ...**

The HIV proteinase presents a potentially ideal target for antiviral therapy for several reasons. 305 HIV and other retroviral proteinases are essential to viral replication<sup>2-4-5</sup>. Thus, blocking the viral

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proteinase could block production of infectious virions and halt disease progression.

## **HIV proteinase as a target for drug action -**

### **ScienceDirect**

The three targets Nsp3b, Nsp3c, and E-channel are screened more anti-viral drugs. This may be due to the model problem because of flexible small protein (Nsp3b



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and Nsp3c) or partial  
model (E-channel).

Whether the screened  
anti-viral drugs really  
work on these targets  
needs further  
verification.

Molecular Biology

## **Analysis of therapeutic targets for SARS-CoV-2 and**

...

MERS-CoV Spike  
Protein: A Key Target  
for Antivirals - PubMed.

The continual Middle  
East respiratory

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syndrome (MERS)  
threat highlights the  
importance of  
developing effective  
antiviral therapeutics  
to prevent and treat  
MERS coronavirus  
(MERS-CoV) infection.

A surface spike (S)  
protein guides MERS-  
CoV entry into host  
cells by binding to  
cellular receptor  
dipeptid ....

## **MERS-CoV Spike Protein: A Key**

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## **Target for Antivirals**

### **- PubMed**

Alphavirus proteases are an attractive target for the development of antivirals against alphaviruses.

Alphaviruses contain two virus specific proteases: capsid protease (CP) and nsP2 protease, which are responsible for the processing of structural and nonstructural (ns) polyprotein, respectively.

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## **Viral Proteases and Their Inhibitors | ScienceDirect**

Many positive-strand RNA viruses translate their genomes as single polyproteins that are processed by host and viral proteinases to generate all viral protein products.

Among these is dengue virus, which encodes the serine proteinase NS2B/3 responsible for seven different

# Read Free Viral Proteinases As Targets For cleavages in the polyprotein.

## **Targeting intramolecular proteinase NS2B/3 cleavages for ...**

Known antivirals targeting the viral enzymes, such as the proteinases, have also been tested as potential inhibitors of coronavirus replication. The cysteine proteinase inhibitor E64-d was shown to

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dramatically reduce SARS-CoV replication under cell culture conditions.

## **Molecular targets for the rational design of drugs to ...**

of other viruses that cause emerging and re-emerging infectious diseases, such as influenza virus (Figure 2B), HeV and NiV (Figure 2C), may also serve as targets for developing vaccines to

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prevent corres-  
ponding infectious  
diseases.18

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