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(54) Title: ANTIVIRAL DRUGS FOR TREATMENT OF ARENAVIRUS INFECTION

(57) Abstract: Compounds, methods and pharmaceutical compositions for treating viral : infections, by administering certain novel compounds in therapeutically effective amounts are disclosed. Methods for preparing the compounds and method's using the compounds and pharmaceutical compositions thereof are also disclosed. In particular, the treatment and prophylaxis of viral infections such as caused by hemorrhagic fever viruses is disclosed, *i.e.*, including but not limited to, *Arenaviridae* (Junin, Machupo, Guanarito, Sabia, Lassa, Tacaribe, Pichinde, and LCMV), *Filoviridae* (Ebola and Marburg viruses), *Flaviviridae* (yellow fever, Omsk hemorrhagic fever and Kyasanur Forest disease viruses), and *Bunyaviridae* (Rift Valley fever).



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/05263

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A01N 43/54(2006.01);43/90(2006.01);A61K 31/517(2006.01)

USPC - 514/258.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
USPC: 514/258.1Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 514/391, 410, 412, 415, 10, 210.09, 254.01, 254.05, 43; 504/276; 508/269; 536/28.9; 548/273.4; 548/305.1, 308.1 (text search)Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO(Engineering); Google Scholar
Search Terms Used: viral infection, hemorrhagic, Arenavirus, cdcovir, benzimidazole

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,482,708 A (SPITZER) 08 January 1985 (08.01.1985), col 1, ln 41 to col 2, ln 27; col 4, ln 52-58; col 13, ln 54-57	1-102
Y	US 2005/0187390 A1 (SCHMITZ et al.) 25 August 2005 (25.08.2005), para [0023], [0032]-[0042], [0213], [0218]	1-102
Y	US 2003/0134853 A1 (PRIESTLEY et al.) 04 August 2005 (04.08.2005), para [0021]-[0023]	5-9, 42-46, 58-62, 95-99
Y	US 2005/0171038 A1 (HAMMOND et al.) 04 August 2005 (04.08.2005), para [0009] and [0139]	53

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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