



US 20120035198A1

(19) **United States**

(12) **Patent Application Publication**

Aman et al.

(10) **Pub. No.: US 2012/0035198 A1**

(43) **Pub. Date: Feb. 9, 2012**

(54) **ANTIVIRAL COMPOUNDS AND METHODS OF USING THEREOF**

A61K 31/343 (2006.01)

A61K 31/165 (2006.01)

A61K 31/381 (2006.01)

(76) Inventors: **Mohammad Javad Aman**, Gaithersburg, MD (US); **Sina Bavari**, Frederick, MD (US); **James C. Burnett**, Richmond, VA (US); **Kelly Lyn Warfield**, Adamstown, MD (US)

A61P 31/16 (2006.01)

A61K 31/421 (2006.01)

A61K 31/4178 (2006.01)

A61K 31/4375 (2006.01)

A61P 31/12 (2006.01)

A61P 31/14 (2006.01)

A61P 31/20 (2006.01)

(21) Appl. No.: **13/179,267**

C12N 7/06 (2006.01)

(22) Filed: **Jul. 8, 2011**

A61K 31/404 (2006.01)

(52) **U.S. Cl.** **514/275**; 435/238; 514/394; 514/469; 514/629; 514/443; 514/415; 514/374; 514/397; 514/285

Related U.S. Application Data

(62) Division of application No. 12/013,640, filed on Jan. 14, 2008, now Pat. No. 7,999,001.

(60) Provisional application No. 60/884,928, filed on Jan. 15, 2007.

(57) **ABSTRACT**

Disclosed herein are compounds which exhibit antiviral activity against a plurality of viruses belonging to different families such as Bornaviridae, Filoviridae, Paramyxoviridae, Rhabdoviridae, Arenaviridae, Bunyaviridae, Orthomyxoviridae, and Poxviridae. Thus, methods of preventing, inhibiting, or reducing the viral activity of various viruses are provided as well as methods of treating viral infections.

Publication Classification

(51) **Int. Cl.**
A61K 31/506 (2006.01)
A61K 31/4184 (2006.01)