



**BAISHIDENG PUBLISHING GROUP INC**

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242 Fax: +1-925-223-8243

E-mail: [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com) <http://www.wjgnet.com>

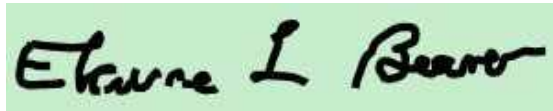
---

**Name of Journal:** World Journal of Virology

**ESPS Manuscript NO:** 22039

**Manuscript Type:** ORIGINAL ARTICLE

**Conflict-of-interest statement:** The authors declare no conflicts of interest regarding this manuscript.



Elaine L Beaver

Elaine L Beaver