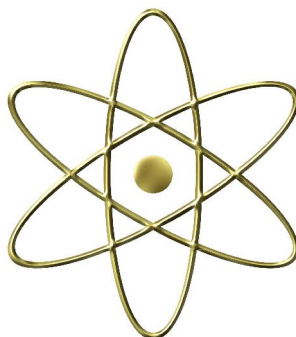


An International Journal

Life Science Journal

Acta Zhengzhou University Overseas Edition

[ISSN 1097-8135](#)



Volume 9 - Number 3 (Cumulated No. 30), 2012

[Zhengzhou University](#)

[Marsland Press](#)

Life Science Journal Editorial Office
100 Science Road Zhengzhou, Henan 450001, China

P.O. Box 180432, Richmond Hill, New York 11418, the United States

<http://www.lifesciencesite.com>

<http://www.sciencepub.net>

editor@sciencepub.net

sciencepub@gmail.com

347-321-7172

Life Science Journal

Acta Zhengzhou University Overseas Edition

Life Science Journal is an official publication of the Zhengzhou University, as the Acta Zhengzhou University Overseas Edition. The journal is published by Zhengzhou University associated with American Marsland Press, with the international serial number of ISSN 1097-8135. This journal seeks to publish the best available scholarship on all aspects of life science.

Goals: As an international journal published both in print and on internet, *Life Science Journal* is dedicated to the dissemination of fundamental knowledge in all areas of life science. The main purpose of *Life Science Journal* is to enhance our knowledge spreading in the world under the free publication principle. It publishes full-length papers (original contributions), reviews, rapid communications, and any debates and opinions in all the fields of nature and science. See Instructions for Authors for manuscript submission information.

[Zhengzhou University](http://www.zhu.edu.cn)

[Marsland Press](http://www.marslandpress.com)

**Life Science Journal Editorial Office
100 Science Road Zhengzhou, Henan 450001, China**

P.O. Box 180432, Richmond Hill, New York 11418, the United States

<http://www.lifesciencesite.com>

<http://www.sciencepub.net>

editor@sciencepub.net

sciencepub@gmail.com

347-321-7172

ISSN 1097-8135



9 771097 813194