

ISSN 1673-1581



INTERNATIONAL
EXCELLENCE
Awards 2017

Journal of Zhejiang University – SCIENCE B

Biomedicine & Biotechnology

浙江大学学报（英文版）B辑
生物医学与生物技术

Year 2018

Volume 19

Issue 2

Editors-in-Chief:
Shu-min Duan
De-nian Ba

Impact factor:
1.676 (2016)

**Zhejiang
University
Press**

 **Springer**

万方数据

2018 Vol. 19 No. 2 Feb. P. 85-170

Journal of Zhejiang University-SCIENCE B (Biomedicine & Biotechnology)



***J Zhejiang Univ-Sci B
(Biomed & Biotechnol)***

Administrated by
Ministry of Education, China

Sponsored by
Zhejiang University

Published by
Zhejiang University Press

Edited by
Editorial Office of *Journal of
Zhejiang University-SCIENCE A/B &
FITEE*

Printed by
Hangzhou Shengyuan Printing
Services Co., Ltd.

Publication Date
1st Week per Month

ISSN 1673-1581
CN 33-1356/Q

Vol. 19, No. 2, p. 85-170 | Feb., 2018

CONTENTS

Review

- 85 A review of the use of pteridophytes for treating human ailments
Xavier-ravi BASKARAN, Antony-varuvel GEO VIGILA,
Shou-zhou ZHANG, Shi-xiu FENG, Wen-bo LIAO

Articles

- 120 Phytochemical composition, biological potential and enzyme inhibition activity of *Scandix pecten-veneris* L.
Abdul WAHAB, Syed Aleem JAN, Abdur RAUF, Zia ur REHMAN, Zahid KHAN, Aftab AHMED, Fatima SYED, Sher Zaman SAFI, Hamayun KHAN, Muhammad IMRAN
- 130 Role of jasmonic acid in improving tolerance of rapeseed (*Brassica napus* L.) to Cd toxicity
Essa ALI, Nazim HUSSAIN, Imran Haider SHAMSI, Zahra JABEEN, Muzammil Hussain SIDDIQUI, Li-xi JIANG
- 147 Variations in cadmium and nitrate co-accumulation among water spinach genotypes and implications for screening safe genotypes for human consumption
Lin TANG, Wei-jun LUO, Zhen-li HE, Hanumanth Kumar GURAJALA, Yasir HAMID, Kiran Yasmin KHAN, Xiao-e YANG
- 159 Toxicity testing of four silver nanoparticle-coated dental castings in 3-D LO2 cell cultures
Yi-ying ZHAO, Qiang CHU, Xu-er SHI, Xiao-dong ZHENG, Xiao-ting SHEN, Yan-zhen ZHANG

Perspective

- 168 HIV and paraquat poisoning: fighting fire with fire?
Yuan-qiang LU

English Consultants Alan SEAL (NZ), Alan SINGLETON (UK), Judy REDFEARN (UK), Clarence SINGLETON (UK)

Executive Editors Qing YE, Han-feng LIN