



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

Editors-in-Chief

Shu-min DUAN
Zhi-hong LIU

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*

Printed by

Hangzhou Shengyuan Printing
Services Co., Ltd.

Publication Date

1st Week per Month

Subscription

Tel: +86-571-87952783;
E-mail: yangsq@zju.edu.cn;
Postal distributing code: 32-323

Contact

Zhejiang University Press,
148 Tianmushan Road,
Hangzhou 310028, China;
Tel: +86-571-87952783;
E-mail: jzus_b@zju.edu.cn

Price

100 CNY/Issue

ISSN 1673-1581
CN 33-1356/Q

Vol. 24, No. 5, p. 373-462 | May, 2023

CONTENTS

Review

- 373 Overview of the main biological mechanisms linked to changes in periodontal ligament stem cells and the inflammatory microenvironment
Xuetao ZHAO, Hongbing LIN, Tong DING, Yawei WANG, Na LIU, Yuqin SHEN

Mini-review

- 387 Double-negative T cells: a promising avenue of adoptive cell therapy in transplant oncology
Zhihang HU, Modan YANG, Hao CHEN, Chiyu HE, Zuyuan LIN,
Xinyu YANG, Huigang LI, Wei SHEN, Di LU, Xiao XU

Research Articles

- 397 Dichloroacetic acid and rapamycin synergistically inhibit tumor progression
Huan CHEN, Kunming LIANG, Cong HOU, Hai-long PIAO
- 406 Role of selenoprotein M knockdown in the melatonin antagonism of nickel-induced apoptosis and endoplasmic reticulum stress in mouse heart
Xintong ZHANG, Xiaoxue GAI, Lihua XU, Wenxue MA, Qiaohan LIU,
Bendong SHI, Cheng FANG, Jingzeng CAI, Ziwei ZHANG
- 418 Multiplexed single-cell transcriptome analysis reveals molecular characteristics of monkey pluripotent stem cell lines
Shuang LI, Zhenzhen CHEN, Chuanxin CHEN, Yuyu NIU
- 430 Rice bran oil supplementation protects swine weanlings against diarrhea and lipopolysaccharide challenge
Juncheng HUANG, Wenxia QIN, Baoyang XU, Haihui SUN, Fanghua JING,
Yunzheng XU, Jianan ZHAO, Yuwen CHEN, Libao MA, Xianghua YAN
- 442 CUDC-101 as a dual-target inhibitor of EGFR and HDAC enhances the anti-myeloma effects of bortezomib by regulating G2/M cell cycle arrest
Wen CAO, Shunnan YAO, Anqi LI, Haoguang CHEN, Enfan ZHANG, Liqin CAO,
Jinna ZHANG, Yifan HOU, Zhenfeng DAI, Jing CHEN, Xi HUANG, Li YANG, Zhen CAI

Correspondence

- 455 Perforation of the esophagus: an overlooked cause of chest pain as a complication of esophageal foreign bodies
Chengfan QIN, Yunmei YANG, Yuanqiang LU
- 458 Network controllability analysis of awake and asleep conditions in the brain
Yan HE, Zhiqiang YAN, Wenjia ZHANG, Jie DONG, Hao YAN

English Consultants Greg JERKOVICH (Hungary), Elissa KRIEG (USA)

Executive Editors Qing YE, Hanfeng LIN