

ZR

ISSN 2095-8137

CN 53-1229/Q

Volume 44 Issue 1

18 January 2023

Zoological Research



CODEN: DOYADI

www.zoores.ac.cn

ZOOLOGICAL RESEARCH

Volume 44, Issue 1 18 January 2023

CONTENTS

ZR and ZRDC embrace a new era	Yong-Gang Yao, Yong-Tang Zheng	(1)
A wide hybrid zone mediated by precipitation contributed to confused geographical structure of <i>Scutigera boulengeri</i>	Xiu-Qin Lin, Yin-Meng Hou, Wei-Zhao Yang, Sheng-Chao Shi, Pu-Yang Zheng, Chung-Kun Shih, Jian-Ping Jiang, Feng Xie	(3)
Genomic analysis of indigenous goats in Southwest Asia reveals evidence of ancient adaptive introgression related to desert climate	Hojjat Asadollahpour Nanaei, Yudong Cai, Akil Alshawi, Jiayue Wen, Tanveer Hussain, Wei-Wei Fu, Nai-Yi Xu, Abdulameer Essa, Johannes A. Lenstra, Xihong Wang, Yu Jiang	(20)
Delineation of biomarkers and molecular pathways of residual effects of fluoxetine treatment in juvenile rhesus monkeys by proteomic profiling	Yu Yan, Dong Ik Park, Anja Horn, Mari Golub, Christoph W. Turck	(30)
EcR/USP-1-mediated ecdysteroid signaling regulates wolf spider (<i>Pardosa pseudoannulata</i>) development and reproduction	Zhi-Ming Yang, Yang-Yang Yan, Yong Wu, Na Yu, Ze-Wen Liu	(43)
Chicken chromatin accessibility atlas accelerates epigenetic annotation of birds and gene fine-mapping associated with growth traits ...	Xiao-Ning Zhu, Yu-Zhe Wang, Chong Li, Han-Yu Wu, Ran Zhang, Xiao-Xiang Hu	(53)
Depletion of <i>stearoyl-CoA desaturase (scd)</i> leads to fatty liver disease and defective mating behavior in zebrafish	Shan-Shan Xu, Yi Li, Hou-Peng Wang, Wen-Bo Chen, Ya-Qing Wang, Zi-Wei Song, Hui Liu, Shan Zhong, Yong-Hua Sun	(63)
Whole-genome resequencing reveals recent signatures of selection in five populations of largemouth bass (<i>Micropterus salmoides</i>)	Cheng-Fei Sun, Xin-Hui Zhang, Jun-Jian Dong, Xin-Xin You, Yuan-Yuan Tian, Feng-Ying Gao, He-Tong Zhang, Qiong Shi, Xing Ye	(78)
Global freshwater assessment of establishment risk of invasive Alligator gar (<i>Atractosteus spatula</i>) and risks to freshwater ecosystems in China	Wen-Dong Xie, Zhi-Xin Wen, Kai Song, Bao-Cheng Guo, Yun Fang, Yue-Hua Sun	(90)
Generation of a tree shrew breast cancer model using lentivirus expressing <i>PIK3CA-H1047R</i>	Li Zeng, Hong-Yan Zhang, Chuan-Yu Yang, Zhuo Cheng, Qiu-Yun Jiang, Yao Luo, Yi Li, Fu-Bing Li, Ce-Shi Chen	(94)
Smarter birds, smaller eggs, and less parental care time	Sheng-Kai Pan, Dai-Ping Wang, Xiao-Hang Zhang, Xiang-Jiang Zhan	(98)
Traumatic mating causes strict monandry in a wolf spider	Nina Ma, Deyong Gong, Aijia Mao, Yao Zhao, Xiaoguo Jiao, Jie Liu, Yu Peng, Shichang Zhang	(101)
Author Correction: Opah (<i>Lampris megalopsis</i>) genome sheds light on the evolution of aquatic endothermy	Jing Bo, Wen-Qi Lv, Ning Sun, Cheng Wang, Kun Wang, Pan Liu, Chen-Guang Feng, Shun-Ping He, Lian-Dong Yang	(105)
Interactions among deep-sea mussels and their epibiotic and endosymbiotic chemoautotrophic bacteria: Insights from multi-omics analysis	Yi-Tao Lin, Ting Xu, Jack Chi-Ho Ip, Yanan Sun, Ling Fang, Tiangang Luan, Yu Zhang, Pei-Yuan Qian, Jian-Wen Qiu	(106)
<i>Dusp1</i> regulates thermal tolerance limits in zebrafish by maintaining mitochondrial integrity	Ying Wang, Hua-Min Wang, Yan Zhou, Ling-Hong Hu, Jing-Ming Wan, Ji-Hui Yang, Hong-Bo Niu, Xiu-Ping Hong, Peng Hu, Liang-Biao Chen	(126)
Towards magnetism in pigeon MagR: Iron- and iron-sulfur binding work indispensably and synergistically	Yajie Zhou, Tianyang Tong, Mengke Wei, Peng Zhang, Fan Fei, Xiujuan Zhou, Zhen Guo, Jing Zhang, Huangtao Xu, Lei Zhang, Shun Wang, Junfeng Wang, Tiantian Cai, Xin Zhang, Can Xie	(142)
Defects and asymmetries in the visual pathway of non-human primates with natural strabismus and amblyopia	Feng Liu, Zhong-Hao Wang, Wanjing Huang, Ying Xu, Xuan Sang, Ruifeng Liu, Zhou-Yue Li, Ya-Lan Bi, Lei Tang, Jing-Yi Peng, Jia-Ru Wei, Zhi-Chao Miao, Jian-Hua Yan, Sheng Liu	(153)
Unraveling the macroevolution of horseshoe bats (Chiroptera: Rhinolophidae: <i>Rhinolophus</i>)	Wei-Jian Guo, Yi Wu, Kai He, Yi-Bo Hu, Xiao-Yun Wang, Wen-Hua Yu	(169)
Current understanding of the cGAS-STING signaling pathway: Structure, regulatory mechanisms, and related diseases	Jing Pan, Chen-Jie Fei, Yang Hu, Xiang-Yu Wu, Li Nie, Jiong Chen	(183)

Resolving vertebrate brain evolution through salamander brain development and regeneration	<i>Xiang-Yu Pan, Yan-Yun Zeng, Yan-Mei Liu, Ji-Feng Fei</i>	(219)
Deciphering neural circuits mediating sound-induced analgesia	<i>Wenjie Zhou, Zhi Zhang</i>	(223)
Pan-retinal ganglion cell markers in mice, rats, and rhesus macaques	<i>Francisco M. Nadal-Nicolás, Caridad Galindo-Romero, Fernando Lucas-Ruiz, Nicholas Marsh-Amstrong, Wei Li, Manuel Vidal-Sanz, Marta Agudo-Barriuso</i>	(226)
National Research Facility for Phenotypic and Genetic Analysis of Model Animals (Primate Facility)— Operating Soon		

Cover image: Portrait of a pigeon against the backdrop of Earth and structural model of the MagR/Cry protein complex that guides pigeon navigation. Iron binding and iron-sulfur binding exhibit an indispensable synergistic effect on pigeon MagR magnetism (see research article by Zhou and colleagues)

Cover design: Gao-Wei Wang, Li-Bin Wu, Can Xie

Zoological Research Website: <http://www.zoores.ac.cn/>

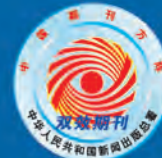
ZOOLOGICAL RESEARCH

动物学研究

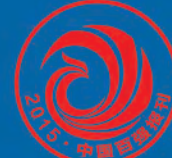
Bimonthly, Since 1980



中国最具国际影响力期刊



中国科技核心期刊



中国百强报刊

Volume 44 Issue 1, 18 January, 2023

Editor-in-Chief: Yong-Gang Yao

Executive Editor-in-Chief: Yong-Tang Zheng

Editors: Su-Qing Liu Long Nie Xiu-Ping Zhang

Edited by Editorial Office of Zoological Research

(Kunming Institute of Zoology, Chinese Academy of Sciences, 17 Longxin Road, Kunming, Yunnan,

Post Code: 650201 Tel: +86 871 65199026 E-mail: zoores@mail.kiz.ac.cn)

Sponsored by Kunming Institute of Zoology, Chinese Academy of Sciences; China Zoological Society©

Supervised by Chinese Academy of Sciences

Published by Editorial Office of Zoological Research, Kunming Institute of Zoology, Chinese Academy of Sciences

Printed by Kunming Xiaosong Plate Making & Printing Co, Ltd

Domestic distribution by Yunnan Post and all local post offices in China

International distribution by China International Book Trading Corporation (Guoji Shudian) P.O.BOX 399, Beijing 100044, China

Overseas Code: BM358



Domestic Postal Issue No.: 64-20

Price: 25.0 USD/150.0 CNY

ISSN 2095-8137

CN 53-1229/Q



ISSN 2095-8137

