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| In this issue |
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| Cover Article |  |

Visualization of reticulophagy in living cells using an endoplasmic reticulum-targeted p62 mutantLiang Wang, Lei Liu, Lingsong Qin, Qingming Luo & Zhihong Zhang |

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| From CAS MembersProfile |  |

Profile of Yi-Han Chen |

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| Review |  |

Mechanistic and therapeutic perspectives for cardiac arrhythmias: beyond ion channelsYufei Wu, Jun Li, Liang Xu, Li Lin & Yi-Han Chen |

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| Review |  |

DNA methylation signatures in circulating cell-free DNA as biomarkers for the early detection of cancerJunyun Wang, Xiao Han & Yingli Sun |

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| Review |  |

The genome-wide molecular regulation of mouse gastrulation embryoGuangdun Peng & Naihe Jing |

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| Review |  |

Genetic technologies for extremely thermophilic microorganisms of *Sulfolobus*, the only genetically tractable genus of crenarchaeaNan Peng, Wenyuan Han, Yingjun Li, Yunxiang Liang & Qunxin She |

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| Research Paper |  |

Identification of *TWIST*-interacting genes in prostate cancerPeng Lyu, Shu-Dong Zhang, Hiu-Fung Yuen, Cian M. McCrudden, Qing Wen, Kwok-Wah Chan & Hang Fai Kwok |

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| Research Paper |  |

Novel hemostatic agents based on gelatin-microbial transglutaminase mixFang Lv, Xiaonan Cong, Wenshu Tang, Yiming Han, Yu Tang, Yongrui Liu, Liqiang Su, Mingyao Liu, Mingfei Jin & Zhengfang Yi |

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| Research Paper |  |

Transplantation of collagen scaffold with autologous bone marrow mononuclear cells promotes functional endometrium reconstruction via downregulating ΔNp63 expression in Asherman’s syndromeGuangfeng Zhao, Yun Cao, Xianghong Zhu, Xiaoqiu Tang, Lijun Ding, Haixiang Sun, Juan Li, Xinan Li, Chenyan Dai, Tong Ru, Hui Zhu, Jingjie Lu, Caimei Lin, Jingmei Wang, Guijun Yan, Huiyan Wang, Lei Wang, Yimin Dai, Bin Wang, Ruotian Li, Jianwu Dai, Yan Zhou & Yali Hu |

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| Research Paper |  |

Lycorine inhibits breast cancer growth and metastasis via inducing apoptosis and blocking Src/FAK-involved pathwayXuexiang Ying, Anling Huang, Yajing Xing, Liping Lan, Zhengfang Yi & Pingqing He |

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| Insight |  |

Future Science Prize goes to non-invasive prenatal testingKang Li, Yaou Duan, Magdalene Yin Lin Ting, Zhiying Ou, Li Liu, Kang Zhang & Xin Fu |

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| Insight |  |

A natural communication system on genome evolutionQi Wu, Yadi Wang, Yun Ding, Shuai Ma, Zongmin Wu & Fuwen Wei |

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| Letter to the Editor |  |

Incubation experiment demonstrates effects of carbon and nitrogen on microbial phosphate-solubilizing functionHongyang Sun, Yanhong Wu, Jun Zhou & Haijian Bing |

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| Letter to the Editor |  |

Root morphology in response to nitrogen supply in mid-season *indica* rice cultivars released in different decadesYikai Zhang, Huizhe Chen, Yuping Zhang, Jing Xiang, Guangmei Ji & Defeng Zhu |

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| Research Highlight |  |

Long non-coding RNAs play an important role in regulating photoperiod- and temperature-sensitive male sterility in riceJingxin Guo & Yao-Guang Liu |

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