

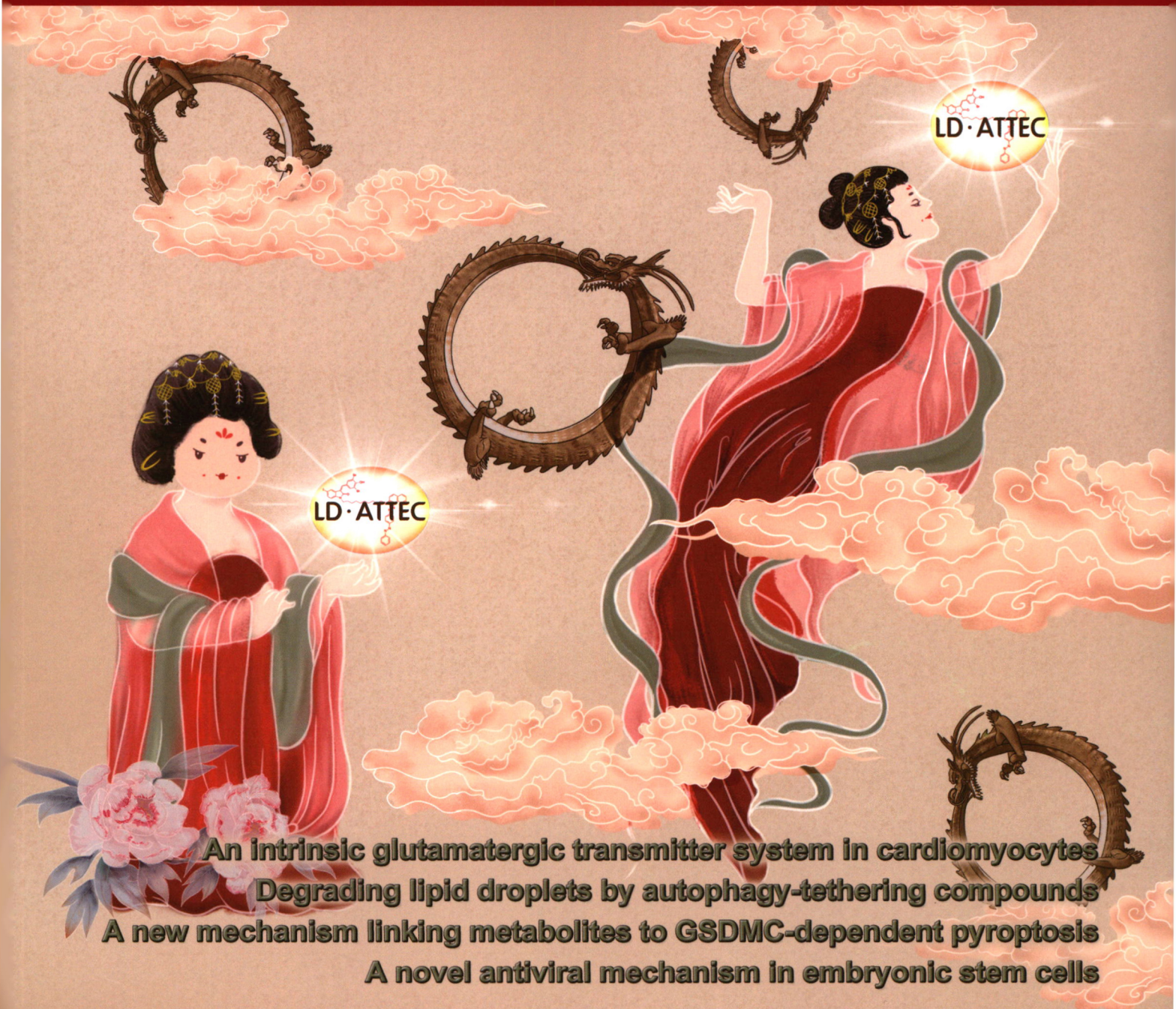
# Cell Research



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**An intrinsic glutamatergic transmitter system in cardiomyocytes**  
**Degrading lipid droplets by autophagy-tethering compounds**  
**A new mechanism linking metabolites to GSDMC-dependent pyroptosis**  
**A novel antiviral mechanism in embryonic stem cells**

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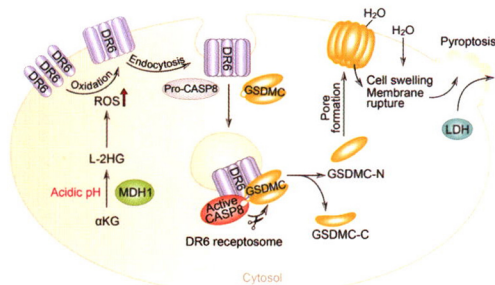
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A working model of  $\alpha$ -KG-induced pyroptosis. It demonstrates a novel pathway from ROS-initiated DR6 endocytosis to caspase-8-cleaved GSDMC for pyroptosis induction. See page 980–997 by Jia-yuan Zhang et al. for details.

## 1011 Interferon-armed RBD dimer enhances the immunogenicity of RBD for sterilizing immunity against SARS-CoV-2 **Open**

Shiyu Sun, Yueqi Cai, Tian-Zhang Song, Yang Pu, Lin Cheng, Hairong Xu, Jing Sun, Chaoyang Meng, Yifan Lin, Haibin Huang, Fang Zhao, Silin Zhang, Yu Gao, Jian-Bao Han, Xiao-Li Feng, Dan-Dan Yu, Yalan Zhu, Pu Gao, Haidong Tang, Jincun Zhao, Zheng Zhang, Jiaming Yang, Zhenxiang Hu, Yang-Xin Fu, Yong-Tang Zheng, Hua Peng

## LETTERS TO THE EDITOR

### 1024 Hsp70 chaperones TDP-43 in dynamic, liquid-like phase and prevents it from amyloid aggregation

Jinge Gu, Chen Wang, Rirong Hu, Yichen Li, Shengnan Zhang, Yunpeng Sun, Qiangqiang Wang, Dan Li, Yanshan Fang, Cong Liu

### 1028 Pharmacological inhibition of SRC-1 phase separation suppresses YAP oncogenic transcription activity **Open**

Guangya Zhu, Jingjing Xie, Zhenzhen Fu, Mingliang Wang, Qichen Zhang, Hao He, Zijun Chen, Xin Guo, Jidong Zhu

### 1032 A single mutation underlying phenotypic convergence for hypoxia adaptation on the Qinghai-Tibetan Plateau

Dongming Xu, Cuiping Yang, Qiushuo Shen, Shengkai Pan, Zhen Liu, Tongzuo Zhang, Xin Zhou, Menglong Lei, Peng Chen, Hui Yang, Tao Zhang, Yuanting Guo, Xiangjiang Zhan, Yongbin Chen, Peng Shi

### 1036 Structural basis for recognition of anti-migraine drug lasmiditan by the serotonin receptor 5-HT<sub>1F</sub>-G protein complex

Sijie Huang, Peiyu Xu, Yangxia Tan, Chongzhao You, Yumu Zhang, Yi Jiang, H. Eric Xu

## ADVANCE ONLINE PUBLICATION

### Structural insights into ligand recognition and activation of the melanocortin-4 receptor

Huibing Zhang, Li-Nan Chen, Dehua Yang, Chunyou Mao, Qingya Shen, Wenbo Feng, Dan-Dan Shen, Antao Dai, Shanshan Xie, Yan Zhou, Jiao Qin, Jin-Peng Sun, Daniel H. Scharf, Tingjun Hou, Tianhua Zhou, Ming-Wei Wang and Yan Zhang

### Mechanical activation of spike fosters SARS-CoV-2 viral infection **Open**

Wei Hu, Yong Zhang, Panyu Fei, Tongtong Zhang, Danmei Yao, Yufei Gao, Jia Liu, Hui Chen, Qiao Lu, Tenny Mudianto, Xinrui Zhang, Chuxuan Xiao, Yang Ye, Qiming Sun, Jing Zhang, Qi Xie, Pei-Hui Wang, Jun Wang, Zhenhai Li, Jizhong Lou and Wei Chen



# Cell Discovery

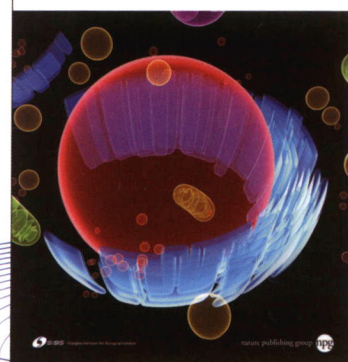
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## Featured articles

Initial whole-genome sequencing and analysis of the host genetic contribution to COVID-19 severity and susceptibility

*Cell Discov.* 2020 Nov 10;6(1):83. doi: 10.1038/s41421-020-00231-4.

The differential immune responses to COVID-19 in peripheral and lung revealed by single-cell RNA sequencing

*Cell Discov.* 2020 Oct 20;6:73. doi: 10.1038/s41421-020-00225-2.

Immune cell profiling of COVID-19 patients in the recovery stage by single-cell sequencing

*Cell Discov.* 2020 May 4;6:31. doi: 10.1038/s41421-020-0168-9.

Phosphorylation of cGAS by CDK1 impairs self-DNA sensing in mitosis

*Cell Discov.* 2020 Apr 28;6:26. doi: 10.1038/s41421-020-0162-2.

Single-cell RNA sequencing reveals the heterogeneity of liver-resident immune cells in human

*Cell Discov.* 2020 Apr 28;6:22. doi: 10.1038/s41421-020-0157-z.

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