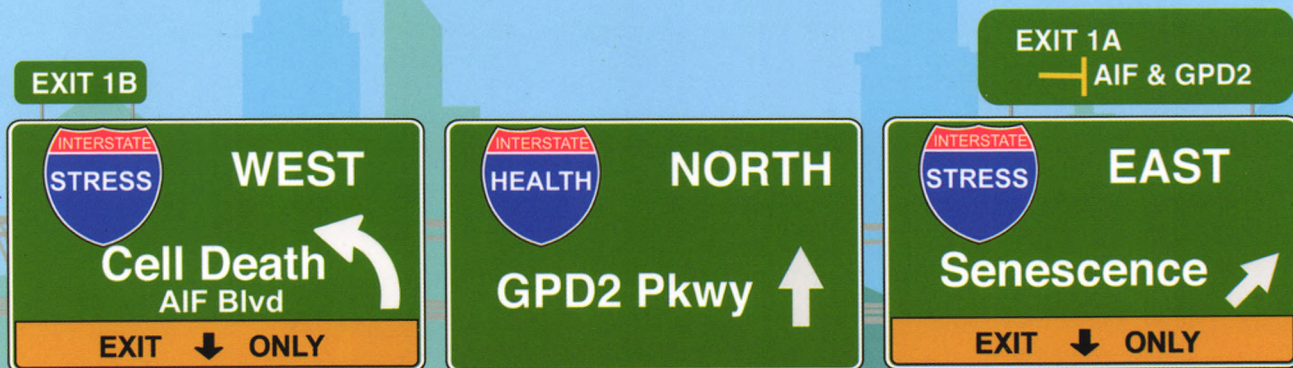


# Cell Research



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**Review on m<sup>6</sup>A: writers, erasers, and readers**  
**IMMP2L signaling acts as a key switch in senescence**  
**Structure of a selective anion channel for acetate**  
**Glutaminase phosphorylation by PKC $\epsilon$  contributes to tumorigenesis**



(Founded in 1990)

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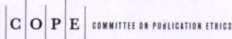
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SPRINGER NATURE

Coordinating Editor for this issue  
 Jiajun Xu

## RESEARCH HIGHLIGHTS

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- 609** **Deadlier than the malate**  
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## REVIEW ARTICLE

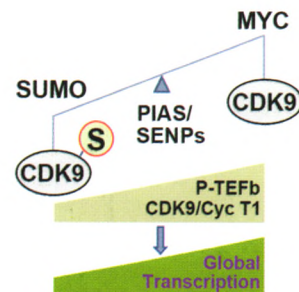
- 616** **Dynamic transcriptomic m<sup>6</sup>A decoration: writers, erasers, readers and functions in RNA metabolism** *Open*  
*Ying Yang, Phillip J. Hsu, Yu-Sheng Chen, Yun-Gui Yang*

## ARTICLES

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*Lifeng Yuan, Linhui Zhai, Lili Qian, De Huang, Yi Ding, Handan Xiang, Xiaojing Liu, J. Will Thompson, Juan Liu, Yong-Han He, Xiao-Qiong Chen, Jing Hu, Qing-Peng Kong, Minjia Tan, Xiao-Fan Wang*
- 644** **Succinate-acetate permease from *Citrobacter koseri* is an anion channel that unidirectionally translocates acetate**  
*Biao Qiu, Bingqing Xia, Qingtong Zhou, Yan Lu, Miaomiao He, Kazuya Hasegawa, Zhiqiang Ma, Fengyu Zhang, Lichuan Gu, Qionglei Mao, Feng Wang, Suwen Zhao, Zhaobing Gao, Jun Liao*
- 655** **Phosphorylation of glutaminase by PKC $\epsilon$  is essential for its enzymatic activity and critically contributes to tumorigenesis** *Open*  
*Tianyu Han, Weihua Zhan, Mingxi Gan, Fanrong Liu, Bentong Yu, Y. Eugene Chin, Jian-Bin Wang*

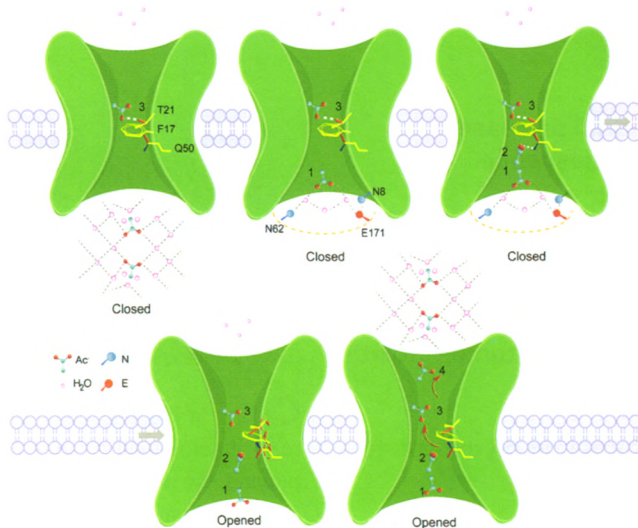


**Cover:** In the decades-long road trip of natural aging, employing the IMMP2L signaling as the navigation system, mitochondria are operating the cells towards the desired destinations based on the contexts ranging from oxidative stress to telomere erosion. See page 625-643 by Lifeng Yuan et al. for details. Cover artwork is designed with the usage of licensed vectors from Shutterstock.com.



Model showing that SUMO and MYC antagonistically control global gene expression through regulating CDK9 sumoylation, P-TEFb formation, and transcriptional elongation. See page 670-685 by Fang Yu et al. for details.





Schematic drawing of the representative stages of the unidirectional acetate translocation process. See page 644-654 by Biao Qiu et al. for details.

## LETTERS TO THE EDITOR

### 686 Chemical-induced cardiac reprogramming *in vivo* **Open**

Chenwen Huang, Wanzhi Tu, Yanbin Fu, Jinxi Wang, Xin Xie

### 690 A CRISPR screen identifies CDK7 as a therapeutic target in hepatocellular carcinoma

Cun Wang, Haojie Jin, Dongmei Gao, Liqin Wang, Bastiaan Evers, Zheng Xue, Guangzhi Jin, Cor Lieftink, Roderick L. Beijersbergen, Wenxin Qin, René Bernards

### 693 Circular RNA F-circEA produced from *EML4-ALK* fusion gene as a novel liquid biopsy biomarker for non-small cell lung cancer

Shuangyan Tan, Qiheng Gou, Wenchen Pu, Chenglin Guo, Yun Yang, Ke Wu, Yaxin Liu, Lunxu Liu, Yu-Quan Wei, Yong Peng

### 670 SUMO suppresses and MYC amplifies transcription globally by regulating CDK9 sumoylation

Fang Yu, Guang Shi, Shimeng Cheng, Jiwei Chen, Shwu-Yuan Wu, Zhiqiang Wang, Nansong Xia, Yunhao Zhai, Zhenxing Wang, Yu Peng, Dong Wang, James X. Du, Lujian Liao, Sheng-Zhong Duan, Tieliu Shi, Jinke Cheng, Cheng-Ming Chiang, Jiwen Li, Jiemin Wong

## ADVANCE ONLINE PUBLICATION

### Destabilization of linker histone H1.2 is essential for ATM activation and DNA damage repair **Open**

Zhiming Li, Yinglu Li, Ming Tang, Bin Peng, Xiaopeng Lu, Qiaoyan Yang, Qian Zhu, Tianyun Hou, Meiting Li, Chaohua Liu, Lina Wang, Xingzhi Xu, Ying Zhao, Haiying Wang, Yang Yang and Wei-Guo Zhu

doi:10.1038/s41422-018-0048-0

### MAP3K1 and MAP2K4 mutations are associated with sensitivity to MEK inhibitors in multiple cancer models **Open**

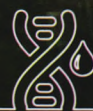
Zheng Xue, Daniel J. Vis, Alejandra Bruna, Tonci Sustic, Sake van Wageningen, Ankita Sati Batra, Oscar M. Rueda, Evert Bosdriesz, Carlos Caldas, Lodewyk F. A. Wessels and René Bernards

doi:10.1038/s41422-018-0044-4



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纯化RNA



定量



分析

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- **快速** - 只需不到 5 秒就可检测每个样本的 RNA 降解情况

与 Agilent™ 2100 生物分析仪基于微流体芯片法相比，Qubit RNA IQ 法需要的设备和耗材便宜，操作简单，检测所需的时间大大缩短。

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