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Writer, reader and function of m⁶C modification in mRNAs
Translation of circular RNAs directed by m⁶A modification
Inhibition of cell fate conversion by a checkpoint sensing chromatin opening
Ubiquitylation of p62 activates its autophagy receptor function

(Founded in 1990)

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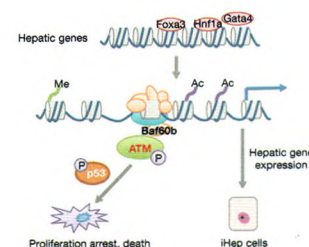
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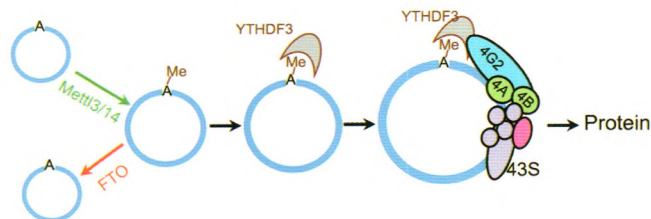
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Cover: a Chinese fairy tale of “bringing the painted dragon to life by putting the pupils in its eyes” to depict the findings by Xin Yang *et al.* (see page 606-625 for details). NSUN2 is the artist who is putting m⁵C, the pupils, in the mRNA dragon’s eyes (near the translation start site), and then ALYREF (Nezha) recognizes the m⁵C mark to guide mRNA export out of the nucleus (depicted as the dragon flying to the sky).



A schematic model showing that a repressive mechanism involving Baf60b-mediated ATM activation senses chromatin opening and limits hepatic conversion. See page 642-656 by Shuyi Ji *et al.* for details.



A schematic diagram of circRNA translation driven by m⁶A. See page 626-641 by Yun Yang *et al.* for details.

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Clonal analysis reveals remarkable functional heterogeneity during hematopoietic stem cell emergence

Hui Ye, Xiaobo Wang, Zongcheng Li, Fan Zhou, Xianlong Li, Yanli Ni, Weijing Zhang, Fuchou Tang, Bing Liu and Yu Lan

doi:10.1038/cr.2017.64

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Neurons secrete *miR-132*-containing exosomes to regulate brain vascular integrity

Bing Xu, Yu Zhang, Xu-Fei Du, Jia Li, Hua-Xing Zi, Ji-Wen Bu, Yong Yan, Hua Han and Jiu-Lin Du

doi:10.1038/cr.2017.62

CRISPR-Cas9-mediated genome editing in one blastomere of two-cell embryos reveals a novel Tet3 function in regulating neocortical development

Lingbo Wang, Min-Yin Li, Chao Qu, Wan-Ying Miao, Qi Yin, Jiaoyang Liao, Hua-Teng Cao, Min Huang, Kai Wang, Erwei Zuo, Guangdun Peng, Shu-Xin Zhang, Guodong Chen, Qing Li, Ke Tang, Qian Yu, Zhoujie Li, Catherine CL Wong, Guoliang Xu, Naihe Jing, Xiang Yu and Jinsong Li

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