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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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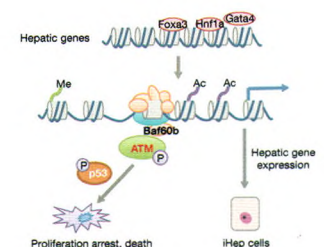
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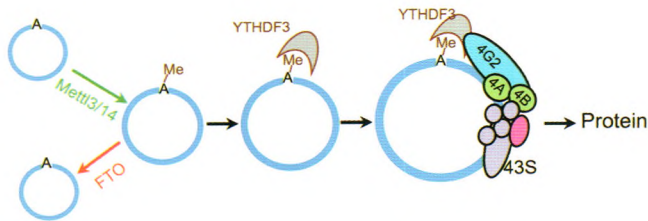
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Cover: a Chinese fairy tale of “bringing the painted dragon to life by putting the pupils in its eyes” to depict the findings by Xin Yang *et al.* (see page 606-625 for details). NSUN2 is the artist who is putting m⁵C, the pupils, in the mRNA dragon’s 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** *Open*
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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