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# Cell Research



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**RPL26 UFMylation regulates translocation-associated quality control**  
**Generation of functional T cells from PSCs**  
**Tissue-specific transcription reprogramming promotes cancer metastasis**  
**Genome sequencing and gene editing of black soldier fly**

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Coordinating Editor for this issue  
Li Lu

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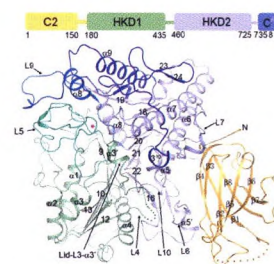
Shuaishuai Teng, Yang Eric Li, Ming Yang, Rui Qi, Yiming Huang, Qianyu Wang, Yanmei Zhang, Shanwen Chen, Shasha Li, Kequan Lin, Yang Cao, Qunsheng Ji, Qingyang Gu, Yujing Cheng, Zai Chang, Wei Guo, Pengyuan Wang, Ivan Garcia-Bassets, Zhi John Lu, Dong Wang

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**Cover:** The cover implies that when the translation of the proteins en route to the ER (symbolized by the high speed train going through a tunnel) is stopped by a poly-A stalling sequence, this scenario will trigger ribosome UFMylation in the cell to launch a translocation-associated protein quality control. See page 5-20 by Lihui Wang et al. for details.



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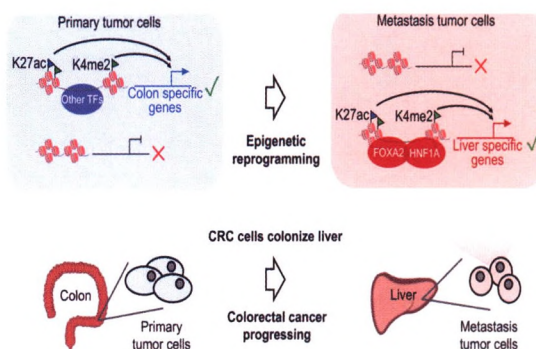
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Model for tissue-specific transcription reprogramming that promotes liver metastasis of colorectal cancer. See page 34-49 by Shuaishuai Teng et al. for details.

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**A novel pathway regulates social hierarchy via lncRNA AtLAS and postsynaptic synapsin IIb**

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**Structure-function insights into the initial step of DNA integration by a CRISPR-Cas-Transposon complex**

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## Featured articles

Structural insights into DNA recognition by AimR of the arbitrium communication system in the SPbeta phage  
*Cell Discov.* 2019 May 28; 5:29. doi: 10.1038/s41421-019-0101-2.

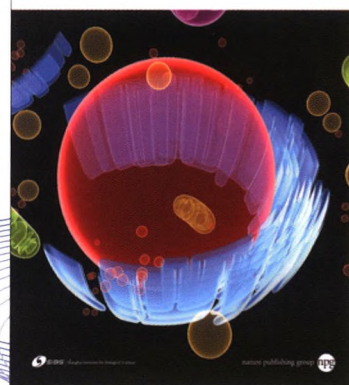
A chemical approach for global protein knockdown from mice to non-human primates  
*Cell Discov.* 2019 Feb 5; 5:10. 10.1038/s41421-018-0079-1.

Repurposing CRISPR-Cas12b for mammalian genome engineering  
*Cell Discov.* 2018 Nov 27; 4:63. doi: 10.1038/s41421-018-0069-3.

A novel antibody-TCR (AbTCR) platform combines Fab-based antigen recognition with gamma/delta-TCR signaling to facilitate T-cell cytotoxicity with low cytokine release  
*Cell Discov.* 2018 Nov 20; 4:62. doi: 10.1038/s41421-018-0066-6.

ADRB2 polymorphism Arg16Gly modifies the natural outcome of heart failure and dictates therapeutic response to  $\beta$ -blockers in patients with heart failure  
*Cell Discov.* 2018 Oct 23; 4:57. doi: 10.1038/s41421-018-0058-6.

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