

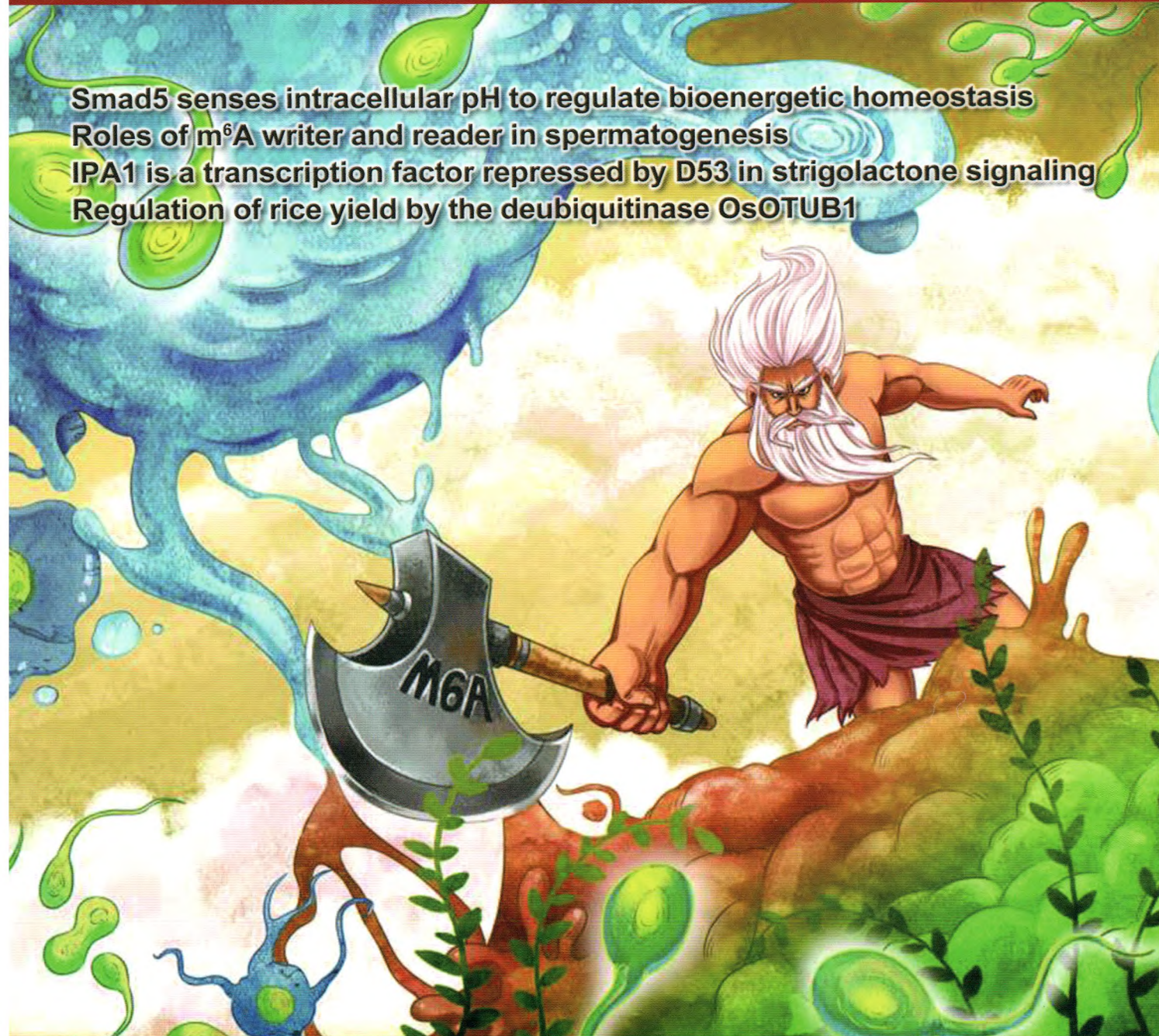
Cell Research



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Smad5 senses intracellular pH to regulate bioenergetic homeostasis
Roles of m⁶A writer and reader in spermatogenesis
IPA1 is a transcription factor repressed by D53 in strigolactone signaling
Regulation of rice yield by the deubiquitinase OsOTUB1



(Founded in 1990)

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RESEARCH HIGHLIGHTS

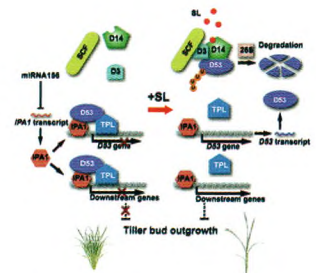
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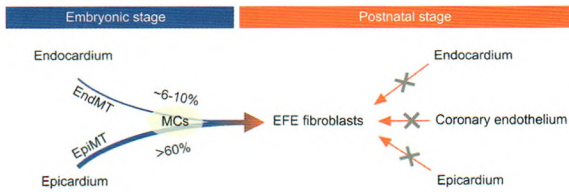
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Cover: The cover uses a Chinese fairy tale 'Pangu Separates the Sky from the Earth' to depict our finding where Mettl3 (Pangu) adds m⁶A (the Axe) into mRNA (the Handle), helping split diploid spermatogonia into haploid sperms (Sky and Earth). See page 1100-1114 by Kai Xu *et al.* for details.



Perception of strigolactone leads to D53 degradation by the proteasome system, which in turn derepresses IPA1-regulated gene expression, resulting in strigolactone response and rice tillering suppression. See page 1128-1141 by Xiaoguang Song *et al.* for details.



Majority of subendocardial EFE fibroblasts are derived from embryonic MCs, which are derivatives of endocardium via EndMT and epicardium via EpiMT. See page 1157-1177 by Hui Zhang *et al.* for details.

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**ADVANCE ONLINE PUBLICATION (published weekly on Tuesday and Friday)
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Genome-wide identification of histone H2A and histone variant H2A.Z-interacting proteins by bPPI-seq

Yi Zhang, Wai Lim Ku, Shuai Liu, Kairong Cui, Wenfei Jin, Qingsong Tang, William Lu, Bing Ni and Keji Zhao

doi:10.1038/cr.2017.112

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Enhanced base editing by co-expression of free uracil DNA glycosylase inhibitor *Open*

Bei Yang, Li Yang and Jia Chen

doi:10.1038/cr.2017.111

25 AUGUST 2017

Cryo-EM structure of human DNA-PK holoenzyme

Xiaotong Yin, Mengjie Liu, Yuan Tian, Jiawei Wang and Yanhui Xu

doi:10.1038/cr.2017.110



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