ISSN:1001-0602(Print) ISSN:1748-7838(Online) CN:31-1568(Print) CN:31-6000(Online) CPDN:4-645 细胞研究

Cell Research

Volume 27 Number 9 September 2017

www.nature.com/cr
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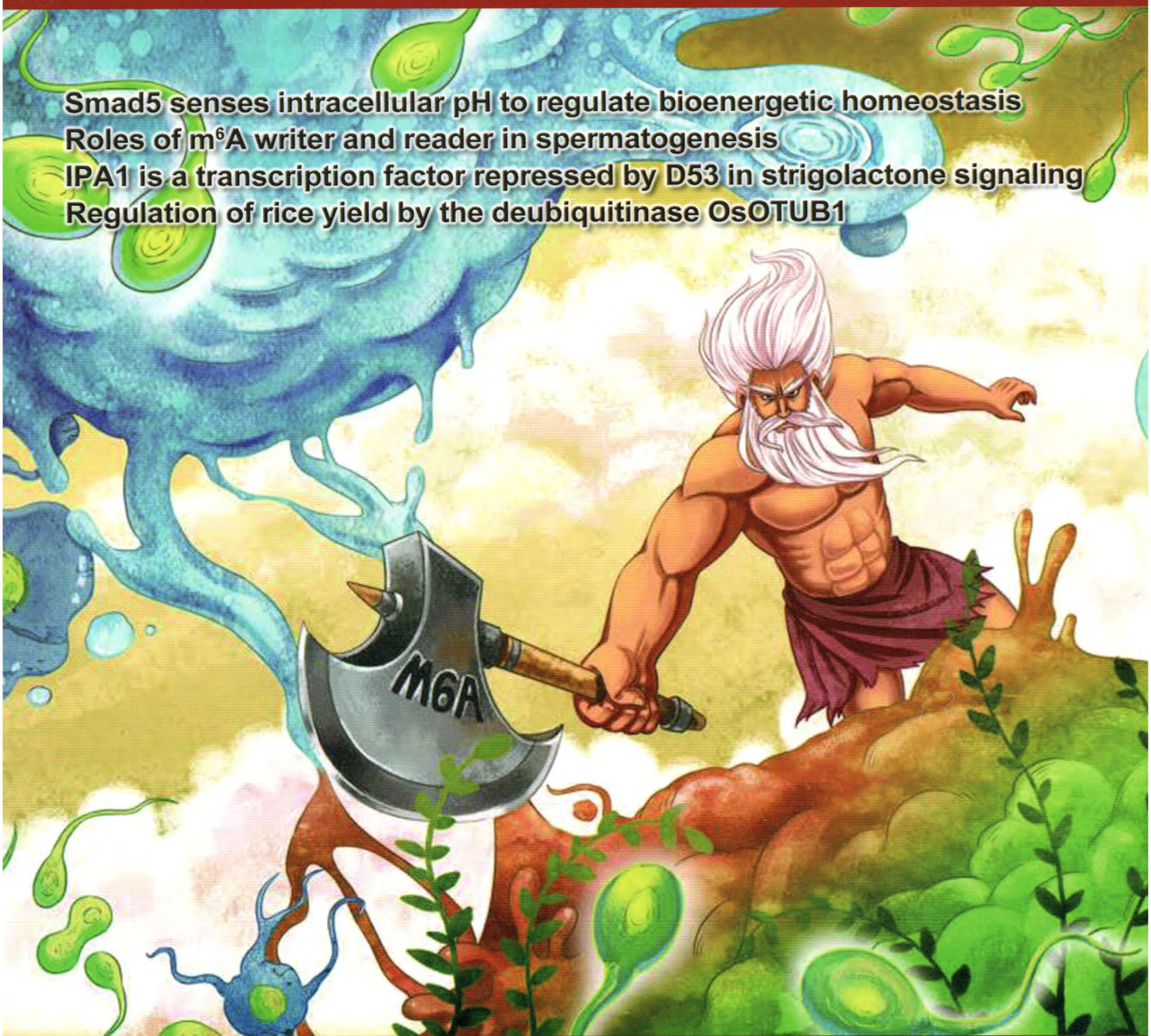
Smad5 senses intracellular pH to regulate bioenergetic homeostasis
Roles of m^{6}A writer and reader in spermatogenesis
IPA1 is a transcription factor repressed by D53 in strigolactone signaling
Regulation of rice yield by the deubiquitinase OsOTUB1



Institute of Biochemistry and Cell Biology
Shanghai Institutes for Biological Sciences
Chinese Academy of Sciences

SPRINGER NATURE

Cell Research

(Founded in 1990)

Online submission via:
http://www.nature.com/cr
http://www.cell-research.com

Cell Research is published monthly by Nature Publishing Group (NPG) in partnership with Shanghai Institutes for Biological Sciences (SIBS), Chinese Academy of Sciences (CAS) since 2006.

Sponsored by:
Institute of Biochemistry and Cell Biology (IBCB), Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences

Affiliated with:
The Chinese Society for Cell Biology since August 2007

Granted by:
Publishing Foundation of Chinese Academy of Sciences, National Natural Science Foundation of China, and China Association for Science and Technology

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SPRINGER NATURE

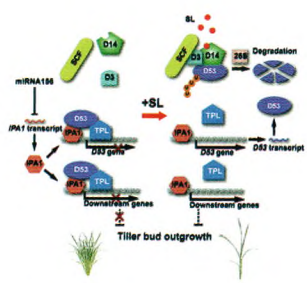
Coordinating Editor for this issue
Jiajun Xu

Contents

RESEARCH HIGHLIGHTS

ORIGINAL ARTICLES

Cover: The cover uses a Chinese fairy tale 'Pangu Separates the Sky from the Earth' to depict our finding where Mettl3 (Pangu) adds m^{6}A (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.

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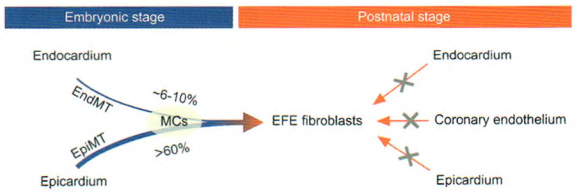

Majority of subendocardial EFE fibroblasts are derived from embryonic MCs, which are derivatives of endocardium via EndMT and epicardium via EpiMT. See page 1157-1177 by Hui Zhang *et al.* for details.

ADVANCE ONLINE PUBLICATION (published weekly on Tuesday and Friday)

1 SEPTEMBER 2017

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

29 AUGUST 2017

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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