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Derivation of human HepLPCs for cell therapy and disease modeling
Prrc2a is a novel m⁶A reader controlling oligodendrocyte specification
Discovery of a novel CD1d reverse signaling mechanism
ADCP1 functions as an HP1 equivalent in plants



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RESEARCH HIGHLIGHTS

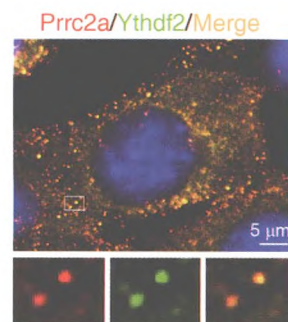
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Cover: A reversible conversion between hepatocytes and liver progenitor-like cells (HepLPCs; Taiji diagram) is like the immortal phoenix rising from the flames made of small molecule cock-tails. The conversion enables expansion of human hepatocytes in vitro and facilitates their application in disease modeling and regenerative medicine. See page 8-22 by Gong-Bo Fu et al. for details.



Confocal images of Prrc2a (red) and Ythdf2 (green) colocalization in HT-22 cells. See page 23-41 by Rong Wu et al. for details.

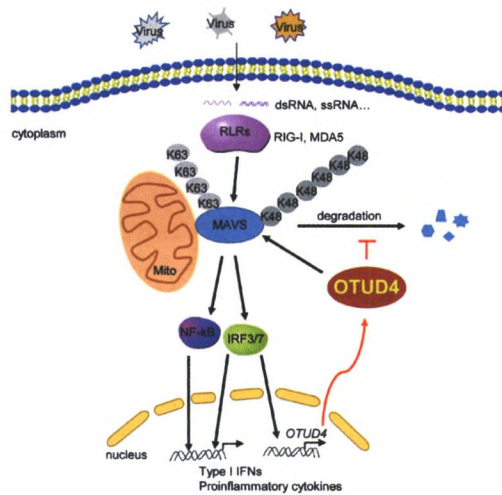


Illustration of a model on OTUD4-mediated regulation of innate antiviral signaling. See page 67-79 by Tianzi Liuyu et al. for details.

- 67 Induction of OTUD4 by viral infection promotes antiviral responses through deubiquitinating and stabilizing MAVS**
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- 87 A single circular chromosome yeast** *Open*
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ADVANCE ONLINE PUBLICATION

- Conversion of hepatoma cells to hepatocyte-like cells by defined hepatocyte nuclear factors** *Open*
Zhuo Cheng, Zhiying He, Yongchao Cai, Cheng Zhang, Gongbo Fu, Hengyu Li, Wen Sun, Changcheng Liu, Xiuliang Cui, Beifang Ning, Daimin Xiang, Tengfei Zhou, Xiaofeng Li, Weifen Xie, Hongyang Wang, Jin Ding

doi:10.1038/s41422-018-0111-x

- Integrative single-cell analysis of transcriptome, DNA methylome and chromatin accessibility in mouse oocytes** *Open*
Chan Gu, Shanling Liu, Qihong Wu, Lin Zhang, Fan Guo

doi:10.1038/s41422-018-0125-4

- Blocking FSH inhibits hepatic cholesterol biosynthesis and reduces serum cholesterol**
Yanjing Guo, Meng Zhao, Tao Bo, Shizhan Ma, Zhongshang Yuan, Wenbin Chen, Zhao He, Xu Hou, Jun Liu, Zhenhai Zhang, Qiang Zhu, Qiangxiu Wang, Xiaoyan Lin, Zhongli Yang, Min Cui, Lu Liu, Yujie Li, Chunxiao Yu, Xiaoyi Qi, Qian Wang, Haiqing Zhang, Qingbo Guan, Lifang Zhao, Shimeng Xuan, Huili Yan, Yanliang Lin, Li Wang, Qihang Li, Yongfeng Song, Ling Gao, Jiajun Zhao

doi:10.1038/s41422-018-0123-6

2019

Meetings



Cold Spring
Harbor Asia

Bacterial Infection

& Host Defense | April 8-12

Elizabeth Hartland, Kenya Honda,
Amina Salama, Feng Shao, Jörg Vogel

Francis Crick Symposium

Transforming Neurosciences:

Questions & Experiments | April 15-19

Hailan Hu, Maiken Nedergaard, Hee-sup Shin,
Marcino Silva, John O'Keefe

Membrane Proteins:

From Physiology to Pharmacology

May 6-10

Nancy Carrasco, Baoliang Song, Chris Tate, Nieng Yan

Scientific and Technical Advances

in Cancer Immunology | June 8-12

Kuetao Cao, Zemin Zhang,

Co-organizers to be announced

Summer Course: Computational and

Cognitive Neuroscience | June 30- July 20

Xiao-Jing Wang, Dora Angelaki,

Christopher Honey, Robert Guangyu Yang

Summer Course: Building and Mining

Brain Cell Atlases and Connectomes

Dates: TBA

Josh Huang, Qingming Luo, co-organizers to be announced

Cross-Scale Biological Structure:
From Macromolecular Complexes and
Organelles to Cells and Tissues

September 2-6

Manfred Auer, Masahide Kikkawa,
Hongwei Wang, Peijun Zhang

Neurobiology of Behavior and
Neuropsychiatric Disorders

September 16-20

Anthony Grace, Minmin Luo, Masashi Yanagisawa

Stem Cells, Aging & Rejuvenation

September 23-27

Hao Li, Seung-Jae Lee, Zhou Songyang, John Sedivy

NF- κ B, JAK-STAT and MAPK:

Intercrossing Signaling Pathways in Health,

Disease and Therapy | October 7-11

Yue Chin, Sankar Ghosh, Yinon Ben-Neriah, Bing Su

Cilia and Centrosomes | October 14-18

Monica Bettencourt-Dias, Hiroshi Hamada,
Gert Jansen, Guangshuo Ou

Synthetic Biology | October 21-25

Junbiao Dai, Jay Keasling, Akihiko Kondo

Chemical Biology and Drug Discovery

October 28- November 1

Haian Fu, Yan-Mei Li, Rolf Müller, Minoru Yoshida

Plant Cell and Development Biology

Gyeongju, South Korea

November 3-7

Ildoo Hwang, Keiko Sugimoto, Jian-Kang Zhu

Mitochondria and Metabolism in
Health and Disease

November 11-15

Paolo Bernardi, Emilio Clementi, Xiaodong Wang

Liver, Biology, Diseases & Cancer

Awaji, Japan | December 9-12

Gen-Sheng Feng, Stuart Forbes, Lijian Hui,
Atsushi Miyajima, Takahiro Ochiya

Kinase and Phosphatase Signaling

December 9-13

Tzu-Ching Meng, Reiko Sugiura, Nicholas Tonks,
Tony Tiganis