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## Research

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**SPRINGER NATURE** 

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### **EDITORIAL**

1035 Sanofi-Cell Research outstanding paper award of 2021

Cell Research Editorial Team

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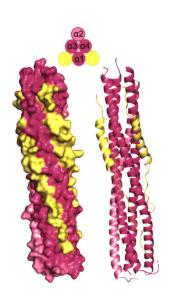
> Fan Zhang, Qilin Zhang, Jiajun Zhu, Boyuan Yao, Chi Ma, Nidan Qiao, Shiman He, Zhao Ye, Yunzhi Wang, Rui Han, Jinwen Feng, Yongfei Wang, Zhaoyu Qin, Zengyi Ma, Kai Li, Yichao Zhang, Sha Tian, Zhengyuan Chen, Subei Tan, Yue Wu, Peng Ran, Ye Wang, Chen Ding, Yao Zhao

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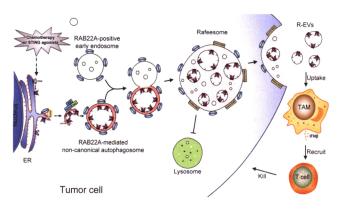
> Wei Pang, Ying Lu, Yan-Bo Zhao, Fan Shen, Chang-Fa Fan, Qian Wang, Wen-Qiang He, Xiao-Yan He, Ze-Kai Li, Tao-Tao Chen, Cui-Xian Yang, You-Zhi Li, Si-Xuan Xiao, Zu-Jiang Zhao, Xu-Sheng Huang, Rong-Hua Luo, Liu-Meng Yang, Mi Zhang, Xing-Qi Dong, Ming-Hua Li, Xiao-Li Feng, Qing-Cui Zhou, Wang Qu, Shibo Jiang, Songying Ouyang, Yong-Tang Zheng



Cover: A proteogenomic study reclassified pituitary neuroendocrine tumors into seven subtypes. Each subtype has specific potential treatment targets, which is summarized as the tree in the image. This new, treatment-oriented classification represents a breakthrough for selecting appropriate therapeutic interventions for this highly heterogeneous disease. See page 1047-1067 by Fan Zhang et al. for details.



Surface and cartoon representation of the atomic model of HR121 dimer. HR121 dimer consists of four HR1 (α1-α4) and two HR2. See page 1068-1085 by Wei Pang et al. for details.



A model proposed for the intercellular transfer of activated STING conferring antitumor immunity. See page 1086–1104 by Ying Gao et al. for details.

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### Cell Discovery

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#### Featured articles

Novel cleavage sites identified in SARS-CoV-2 spike protein reveal mechanism for cathepsin L-facilitated viral infection and treatment strategies *Cell Discov.* 2022 Jun 6;8(1):53. doi: 10.1038/s41421-022-00419-w.

Dynamic O-GlcNAcylation coordinates ferritinophagy and mitophagy to activate ferroptosis *Cell Discov.* 2022 May 3;8(1):40. doi: 10.1038/s41421-022-00390-6.

Treatment of SARS-CoV-2-induced pneumonia with NAD<sup>+</sup> and NMN in two mouse models *Cell Discov*. 2022 Apr 29;8(1):38. doi: 10.1038/s41421-022-00409-y.

CRISPR signal conductor 2.0 for redirecting cellular information flow *Cell Discov*. 2022 Mar 15;8(1):26. doi: 10.1038/s41421-021-00371-1.

Cross-species metabolomic analysis identifies uridine as a potent regeneration promoting factor *Cell Discov.* 2022 Feb 1;8(1):6. doi: 10.1038/s41421-021-00361-3.

Histone lysine methacrylation is a dynamic post-translational modification regulated by HAT1 and SIRT2 *Cell Discov.* 2021 Dec 28;7(1):122. doi: 10.1038/s41421-021-00344-4.

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