

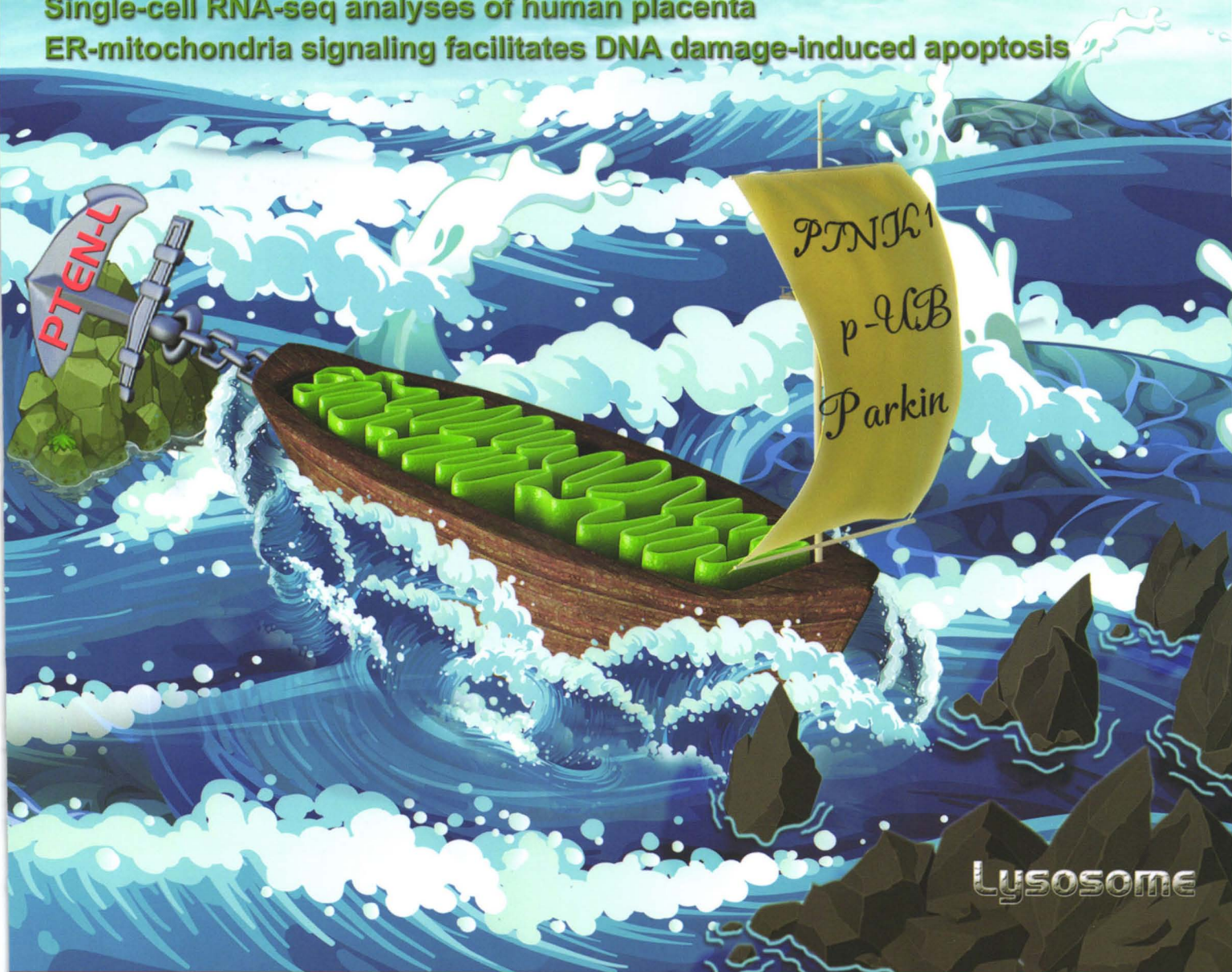


# Cell Research

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**PTEN-L acts as a phosphatase for ubiquitin dephosphorylation**  
**PEGASOS: a novel method for tissue cleaning**  
**Single-cell RNA-seq analyses of human placenta**  
**ER-mitochondria signaling facilitates DNA damage-induced apoptosis**



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Coordinating Editor for this issue  
Shushu Jiang

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### 785 Competing for enhancers: PVT1 fine-tunes MYC expression

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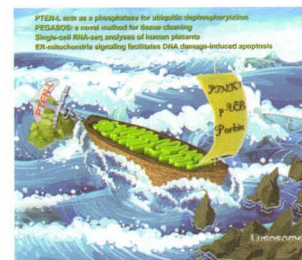
### 803 Tissue clearing of both hard and soft tissue organs with the PEGASOS method *Open*

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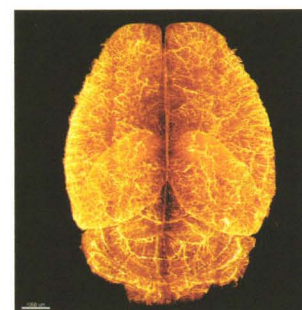
### 819 Single-cell RNA-seq reveals the diversity of trophoblast subtypes and patterns of differentiation in the human placenta *Open*

Yawei Liu, Xiaoying Fan, Rui Wang, Xiaoyin Lu, Yan-Li Dang, Huiying Wang, Hai-Yan Lin, Cheng Zhu, Hao Ge, James C. Cross, Hongmei Wang

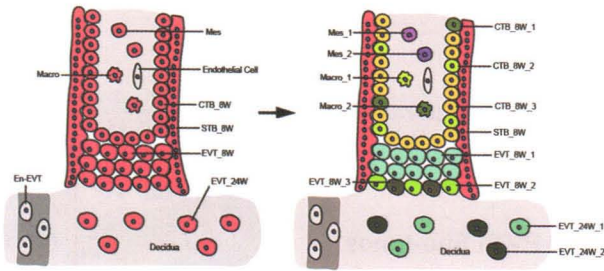
### 833 DNA damage triggers tubular endoplasmic reticulum extension to promote apoptosis by facilitating ER-mitochondria signaling *Open*



**Cover:** The cartoon image shows that PTEN-L acts as a protein phosphatase (boat anchor) against phosphorylated ubiquitin (sail) to protect mitochondria (boat) from destruction by lysosome (reef). See page 787-802 by Liming Wang et al. for details.



PEGASOS method enables imaging of the whole-brain vasculatures at sub-cellular resolution. See page 803-818 by Dian Jing et al. for details.



Single-cell RNA-seq reveals new cell subtypes in the human placenta. See page 819-832 by Yawei Liu et al. for details.

Pengli Zheng, Qingzhou Chen, Xiaoyu Tian, Nannan Qian, Peiyuan Chai, Bing Liu, Junjie Hu, Craig Blackstone, Desheng Zhu, Junlin Teng, Jianguo Chen

## 855 BE-PLUS: a new base editing tool with broadened editing window and enhanced fidelity

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### 865 Glutaminase GLS1 senses glutamine availability in a non-enzymatic manner triggering mitochondrial fusion

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### 868 Necroptosis of tumor cells leads to tumor necrosis and promotes tumor metastasis

Delong Jiao, Zhenyu Cai, Swati Choksi, Dan Ma, Moran Choe, Hyung-Joon Kwon, Jin Young Baik, Brian G. Rowan, Chengyu Liu, Zheng-gang Liu

## CORRECTIONS

### 871 Author Correction: Embryonic senescent cells re-enter cell cycle and contribute to tissues after birth

Yi Li, Huan Zhao, Xiuzhen Huang, Juan Tang, Shaohua Zhang, Yan Li, Xiuxiu Liu, Lingjuan He, Zhenyu Ju, Kathy O. Lui, Bin Zhou

### 872 Author Correction: PTEN-L is a novel protein phosphatase for ubiquitin dephosphorylation to inhibit PINK1-Parkin-mediated mitophagy

Liming Wang, Yik-Lam Cho, Yancheng Tang, Jigang Wang, Jung-Eun Park, Yajun Wu, Chunxin Wang, Yan Tong, Ritu Chawla, Jianbin Zhang, Yin Shi, Shuo Deng, Guang Lu, Yihua Wu, Hayden Weng-Siong Tan, Pornteeera Pawijit, Grace Gui-Yin Lim, Hui-Ying Chan, Jingzi Zhang, Lei Fang, Hanry Yu, Yih-Cherng Liou, Mallilankaraman Karthik, Boon-Huat Bay, Kah-Leong Lim, Siu-Kwan Sze, Celestial T. Yap, Han-Ming Shen

## ADVANCE ONLINE PUBLICATION

### Circulating apoptotic bodies maintain mesenchymal stem cell homeostasis and ameliorate osteopenia via transferring multiple cellular factors

Dawei Liu, Xiaoxing Kou, Chider Chen, Shiyu Liu, Yao Liu, Wenjing Yu, Tingting Yu, Ruili Yang, Runci Wang, Yanheng Zhou and Shengtao Shi

doi:10.1038/s41422-018-0070-2

### Structure of the intact 14-subunit human cytochrome c oxidase

Shuai Zong, Meng Wu, Jinke Gu, Tianya Liu, Runyu Guo and Maojun Yang

doi:10.1038/s41422-018-0071-1



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