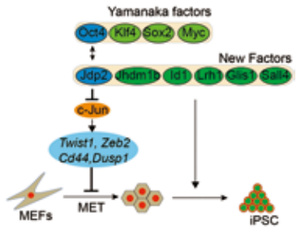
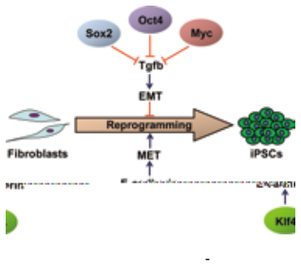


C-Jun

Established the novel independent reprogramming combination with intellectual-property rights, and discovered that C-Jun is an obstacle of reprogramming



MET

Discovered the MET progress during cell reprogramming

The research group launched the research of stem cell pluripotency early in China, pioneered and positively promoted the iPS cell technology, made systemic progress on cell mechanism and transdifferentiation research, discovered the new application and mechanism of Vitamin C in promoting the stem cell induce efficiency, proposed a new perspective of MET initiating cell reprogramming, set up the reprogram combination and nonintegrated transdifferentiation neural stem cell acquire technology with novel independent intellectual-property rights, opened up a new situation in the research field of stem cell, and vastly enhanced the overall innovation capacity of national stem cell research level. Through introducing international talents and cultivating talent youth, the group formed an innovative research group focusing on stem cell research, and made significant contributions for Chinese stem cell and regenerative medicine research on base construction, talent education and international development and cooperation.

Outstanding contributors of this research group

Discovered the new application and mechanism of Vitamin C in promoting the reprogramming, and established a novel independent reprogramming combination with

Established the technology of transdifferentiation for neural stem cells, and discovered the function of important transcription factor in the maintainance and differentiation of

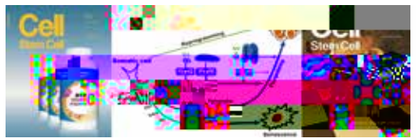
Discovered Vitamin C efficiently promotes reprogramming, revealed the molecular mechanism of MET initiates reprogramming, and nominated as the outstanding

Wang Tao

Zheng Hui
Shu Xiaodong
Liu Jing

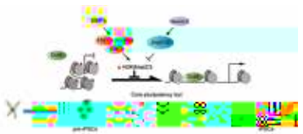
Cai Jinglei
Zhang Xiaofei

Sun Hao
Chen Keshi
Huang Wenhao



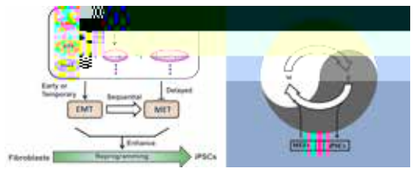
Vc Jhdm1a/1b

Discovered that Vc promotes reprogramming efficiency, and facilitates the reprogramming through Jhdm1a/1b

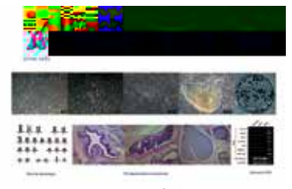


Vc H3K9

Discovered that Vc promotes reprogramming through removing



Discovered that EMT/ MET between cell status promoting the reprogramming



iPS

Established the nonintegrated human iPS system from urine cells

干细胞多能性与重编程机理研究集体

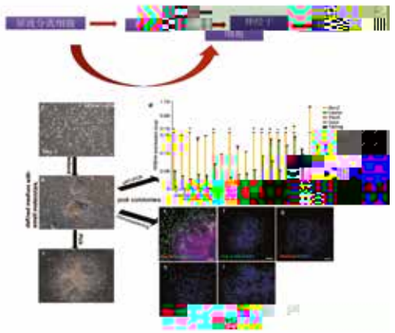
研究集体主要科技贡献：

[illegible]

“ ”

2013

The group research ”Stem Cell Pluripotency And Reprogram Mechanism” has won second class prize of 2013 “National Natural Science Award” remodeling



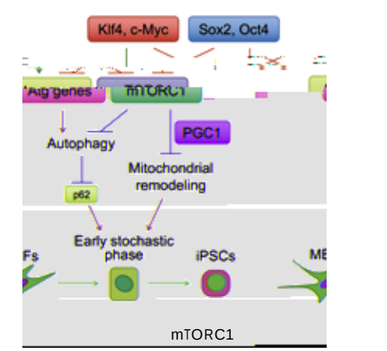
The generation of transplantable neural stem cells from human urine cells

研究集体突出贡献者

[illegible]

研究集体主要完成者

[illegible]



Discovered the autophagy in early reprogram process and the complicated function of mTORC1, illustrated the mechanism of cell remodeling