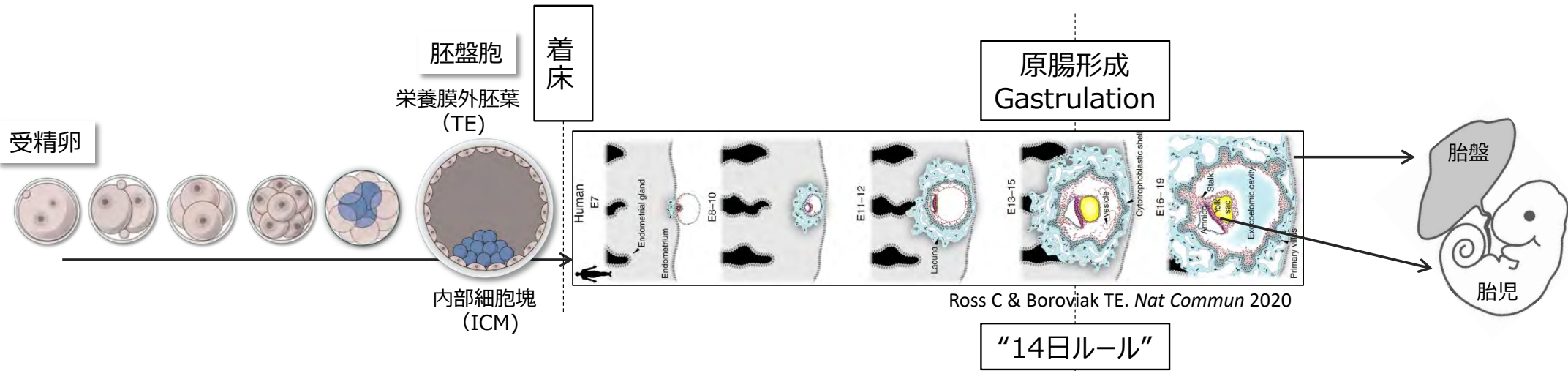
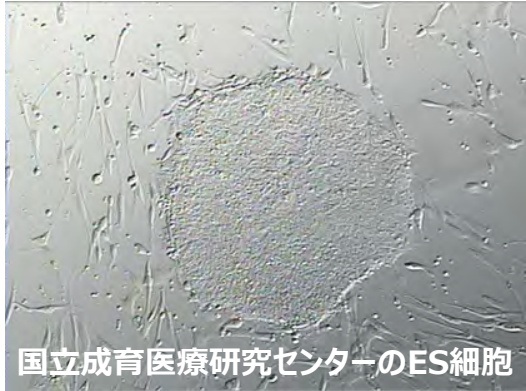




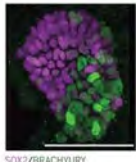
背景



多能性幹細胞
ES細胞
iPS細胞

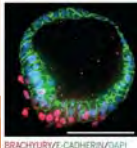


Embryoid



Zheng Yi, et al. Nature
2019

Gastruloid



Shao Y, et al. Nat Commn
2017

Organoid



Uchida H, et al. JCI
insight 2017

Embryoid. A more organized embryoid body, such as a cavitating or a multilayered cluster of differentiating ESCs that resembles an embryo at certain stages of early development.
Gastruloid. A multicellular in vitro model of a gastrulating embryo.
Organoid. A multicellular structure containing many of the cell types and tissue layers present in an adult organ, typically derived from stem cells *in vitro*.

Simunovic M, Brivanlou AH. Development 2017



Article

Blastocyst-like structures generated from human pluripotent stem cells

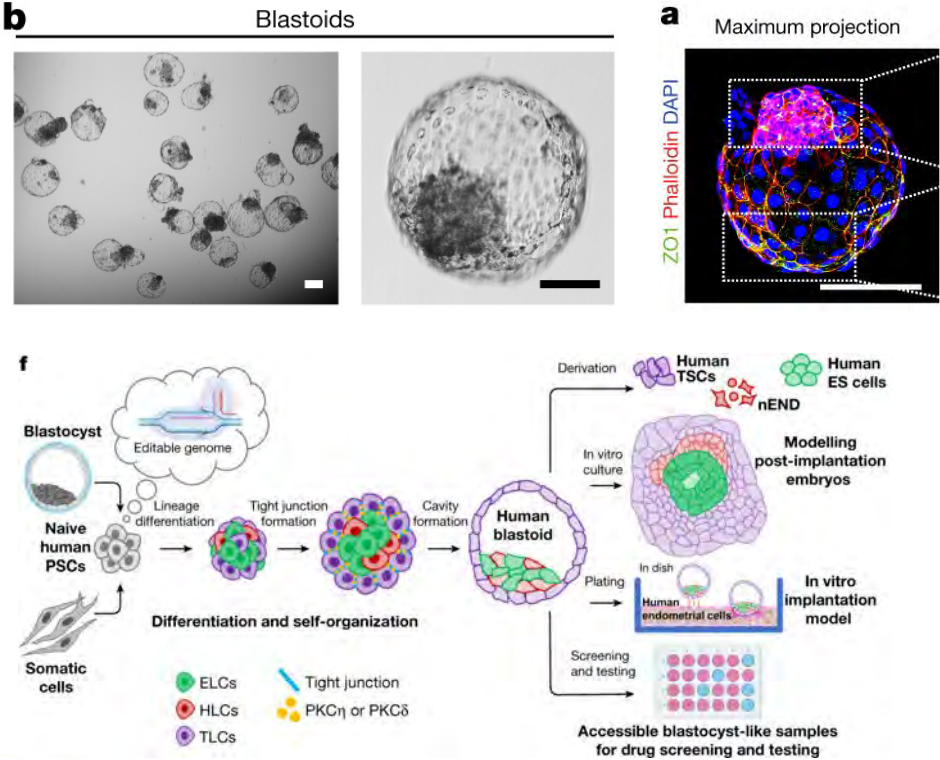
Leqian Yu^{1,2,10}, Yulei Wei^{1,3,4,10}, Jialei Duan^{5,10}, Daniel A. Schmitz^{1,2}, Masahiro Sakurai¹, Lei Wang⁶, Kunhua Wang⁶, Shuhua Zhao⁷, Gary C. Hon^{8,9,11} & Jun Wu^{1,2,12}

Article

Modelling human blastocysts by reprogramming fibroblasts into iBlastoids

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Dr. Wu J: University of Texas Southwestern Medical Center, Dallas, TX, USA



Yu L, et al. Nature 2021

Dr. Polo JM: Monash University, Clayton, Victoria, Australia

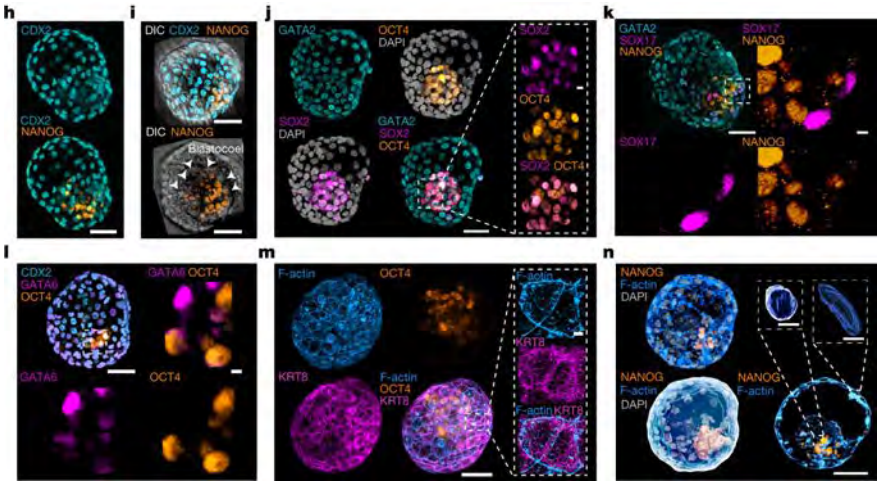
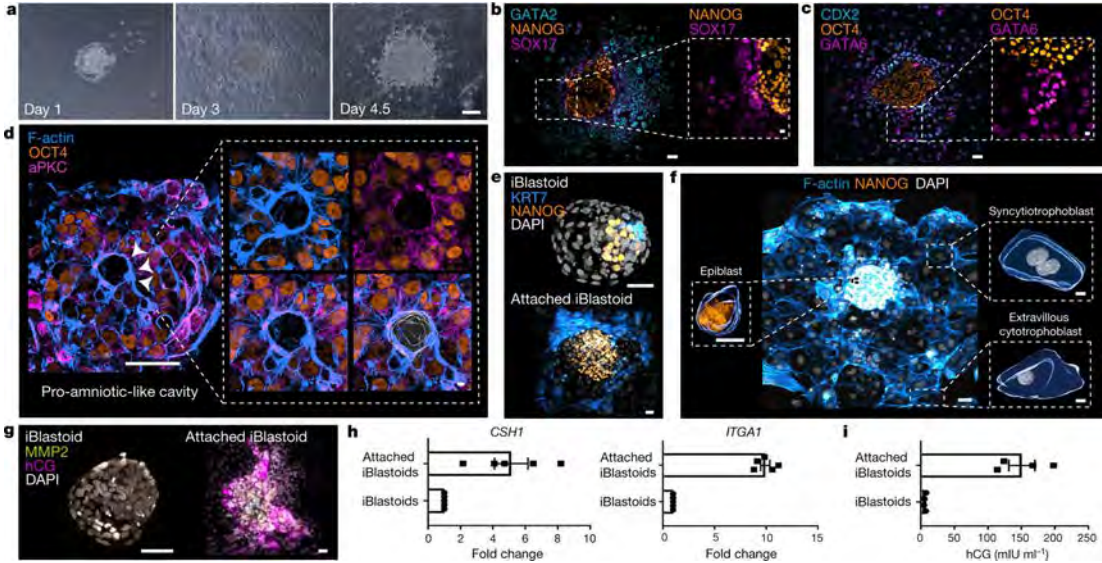


Fig. 4: Modelling human in vitro implantation using iBlastoids.



Liu X, et al. Nature 2021