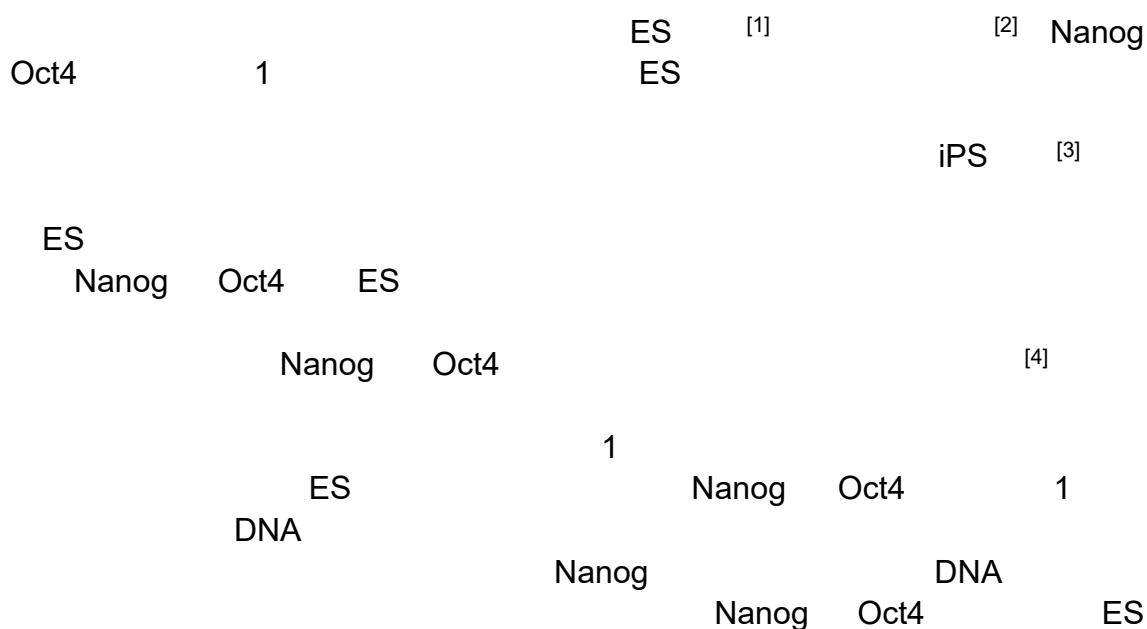


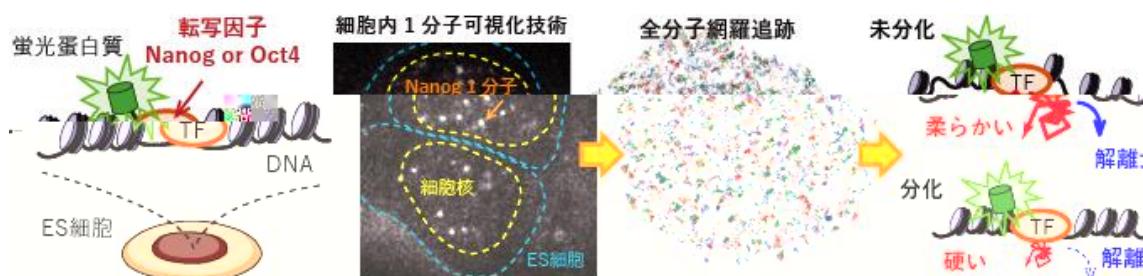
2023 8 23 7 24

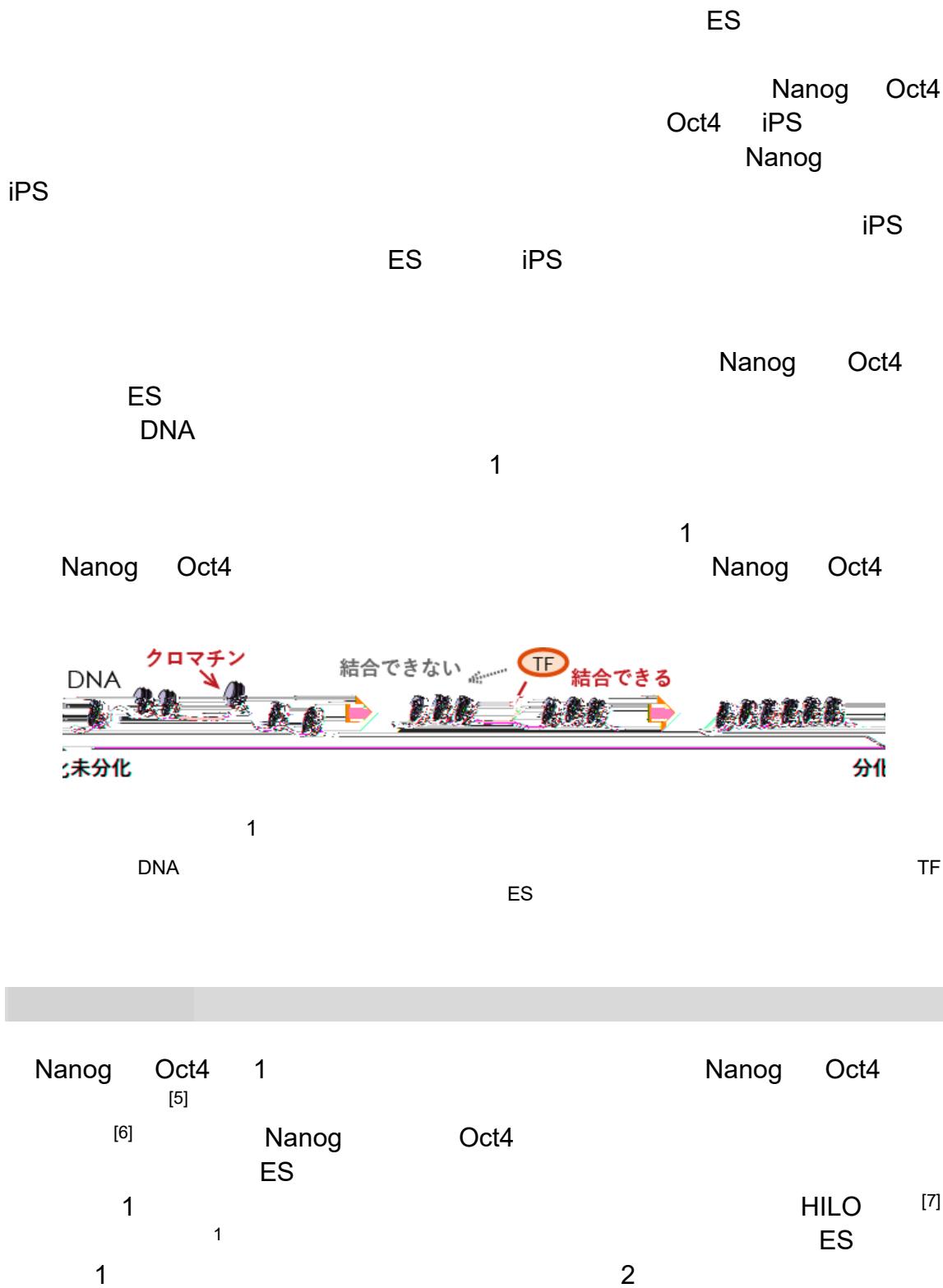
2023 8 22



The EMBO Journal

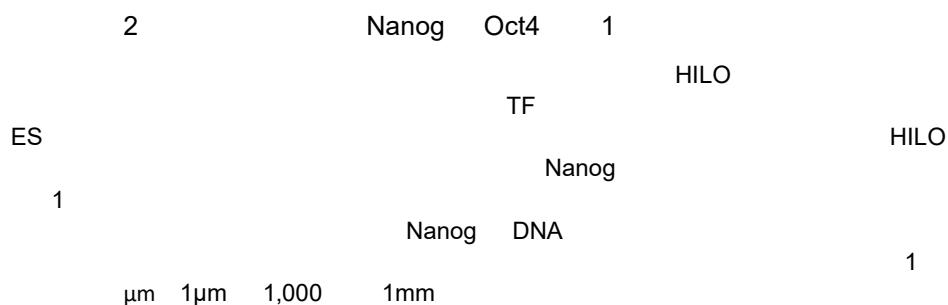
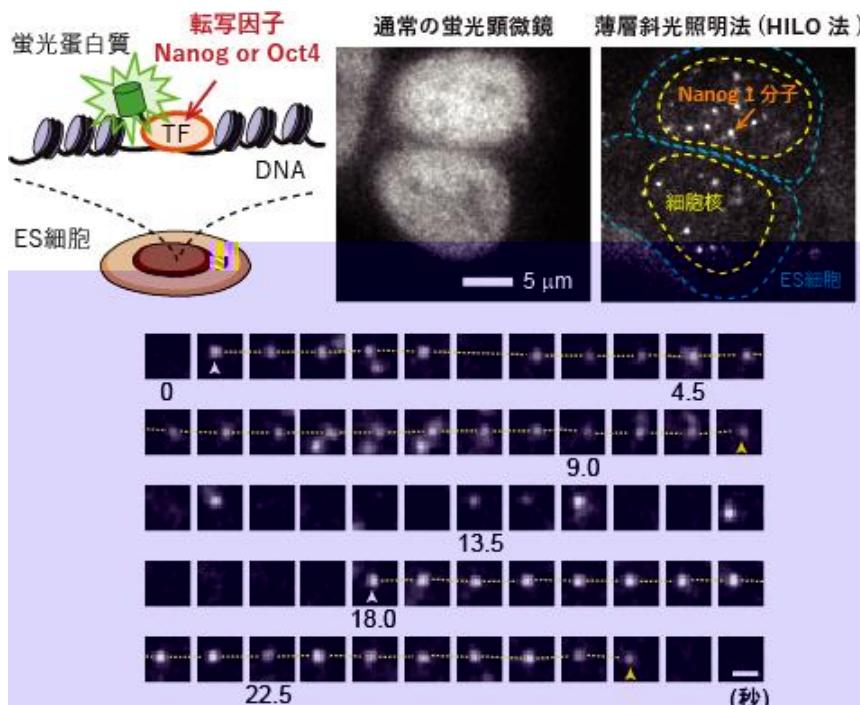
8 23





[8]

Oct4	Nanog Oct4 Nanog 2
------	-----------------------------



[9]

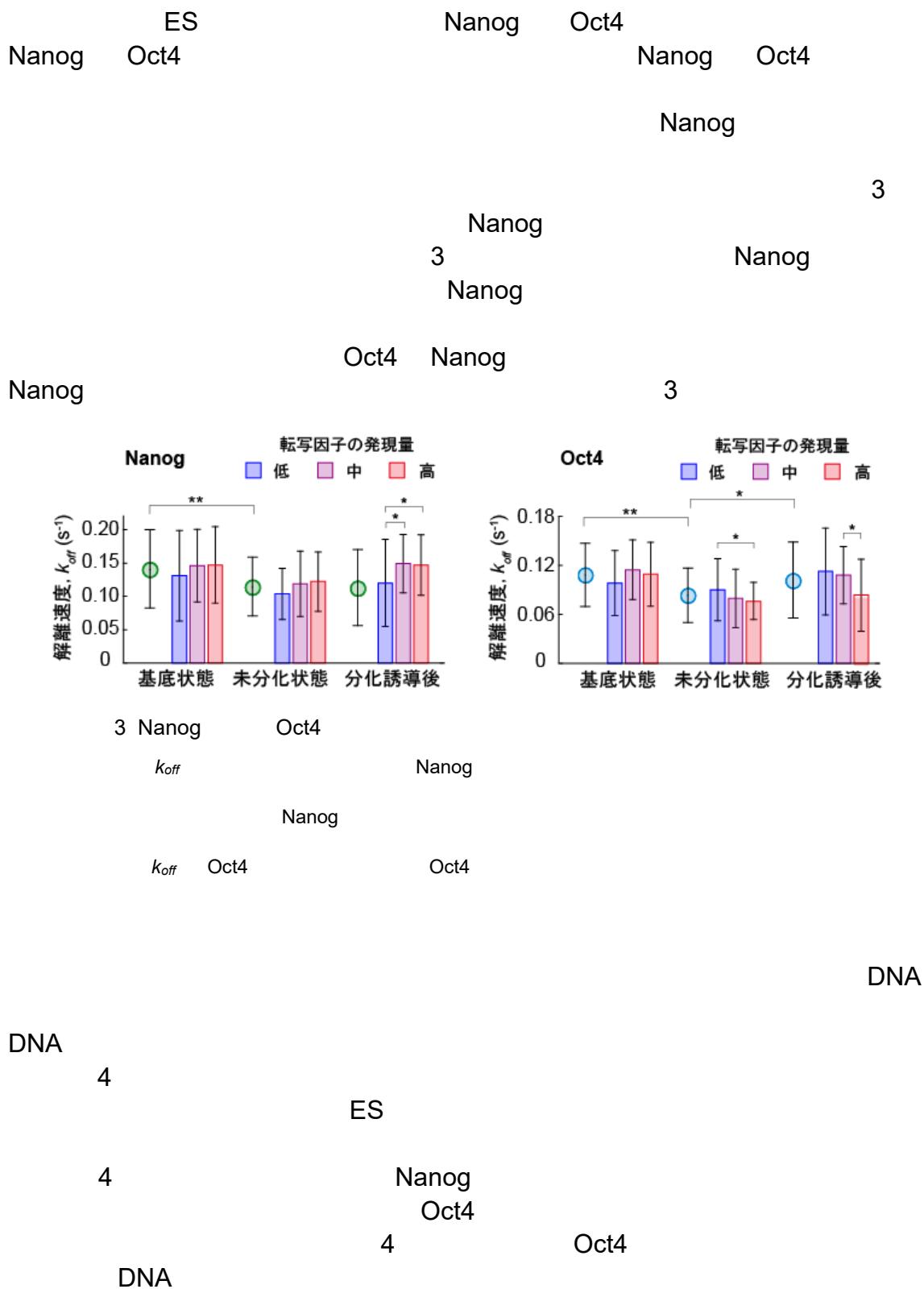
ES	2
ES	2

Nanog 1 4,000	Oct4 1 500	2 500 2,000
---------------------	------------------	-------------------

1	SMT [10]	1
---	----------	---

科学道	0
-----	---

Dreams to the Future.



4

DNA

Nanog Oct4

Nanog

Oct4

DNA

1

Nanog Oct4

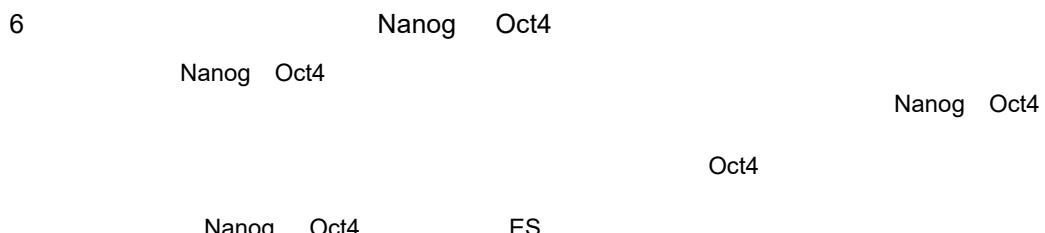
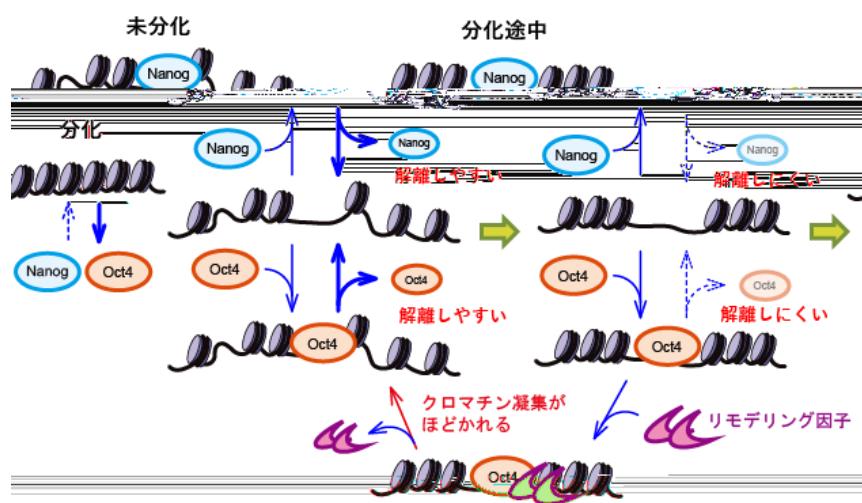
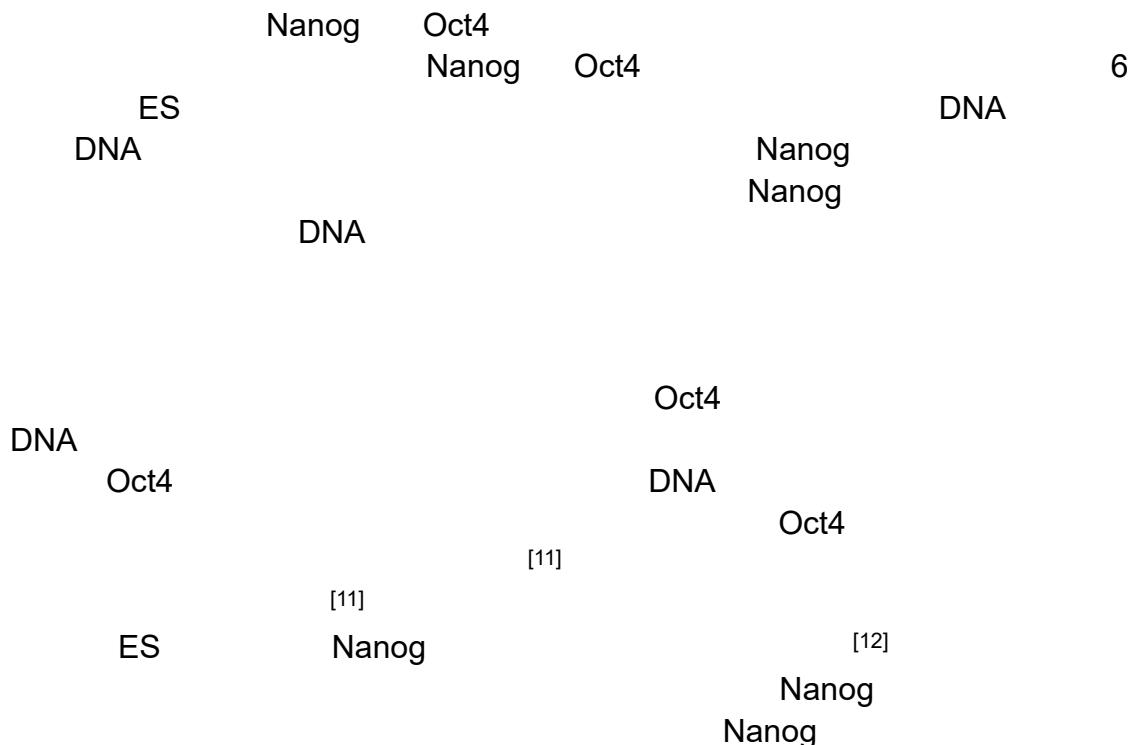
DNA

Nanog Oct4

5

2023 8 23 7 24

Nanog Oct4 6

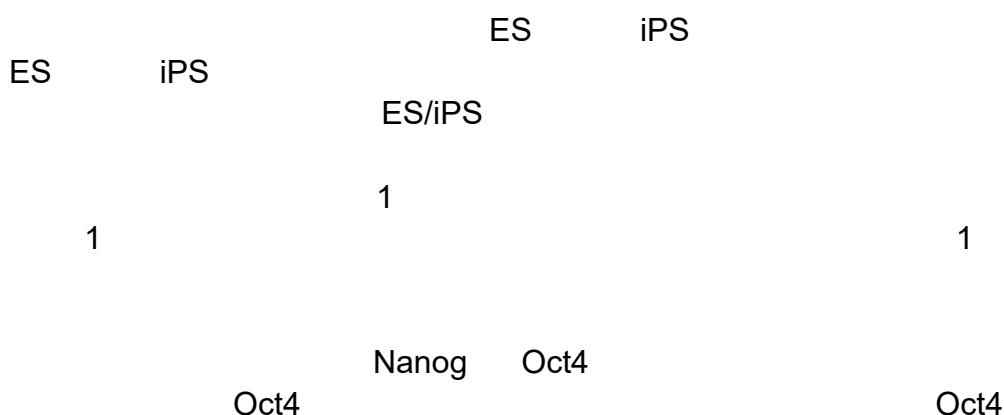


2023 8 23 7 24

1 Tokunaga M, Imamoto N, Sakata-Sogawa K. Highly inclined thin illumination enables clear single-molecule imaging in cells. *Nat Methods.* 5, 159-161 2008 .



Nanog Oct4



Single-molecule tracking of Nanog and Oct4 in living mouse embryonic stem cells uncovers a feedback mechanism of pluripotency maintenance

Kazuko Okamoto, Hideaki Fujita, Yasushi Okada, Soya Shinkai, Shuichi Onami, Kuniya Abe, Kenta Fujimoto, Kensuke Sasaki, Go Shioi, Tomonobu M Watanabe

The EMBO Journal

DOI

10.15252/embj.2022112305

[1] ES

ES embryonic stem

[2]

DNA
RNA

[3] iPS

ES 2006
2012
iPS induced pluripotent stem

[4]

DNA RNA
DNA
DNA DNA
DNA DNA

[5]

1960
2008

[6]

DNA DNA
DNA

[7]

HILO
1

[8]

19

[9]

ES

ES

[10] 1

SMT

SMT Single-molecule tracking

[11]

[12]

ES

ES

Nanog

ES



AMED

iPS

JST

CREST



Tel: 050-3495-0247
Email: ex-press [at] ml.riken.jp

Tel: 082-424-4383
Email: koho [at] office.hiroshima-u.ac.jp

Tel: 03-5841-3304
Email: ishomu [at] m.u-tokyo.ac.jp

[at] @

