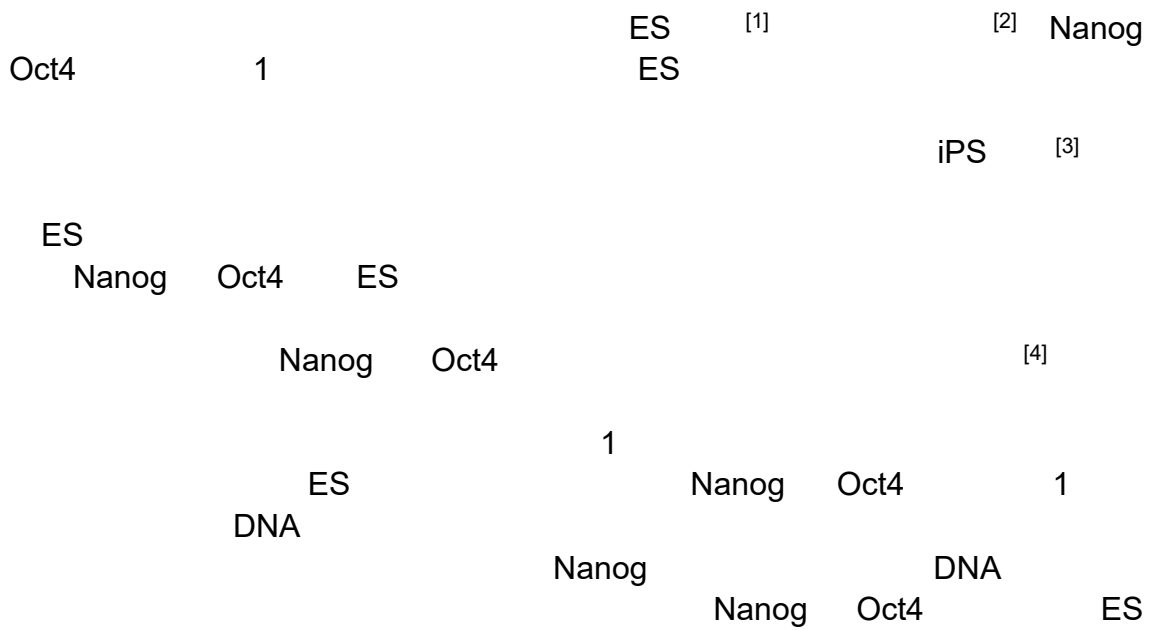


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7 24



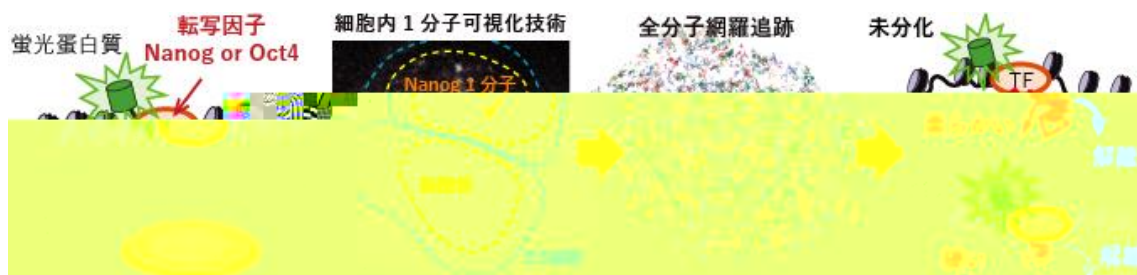
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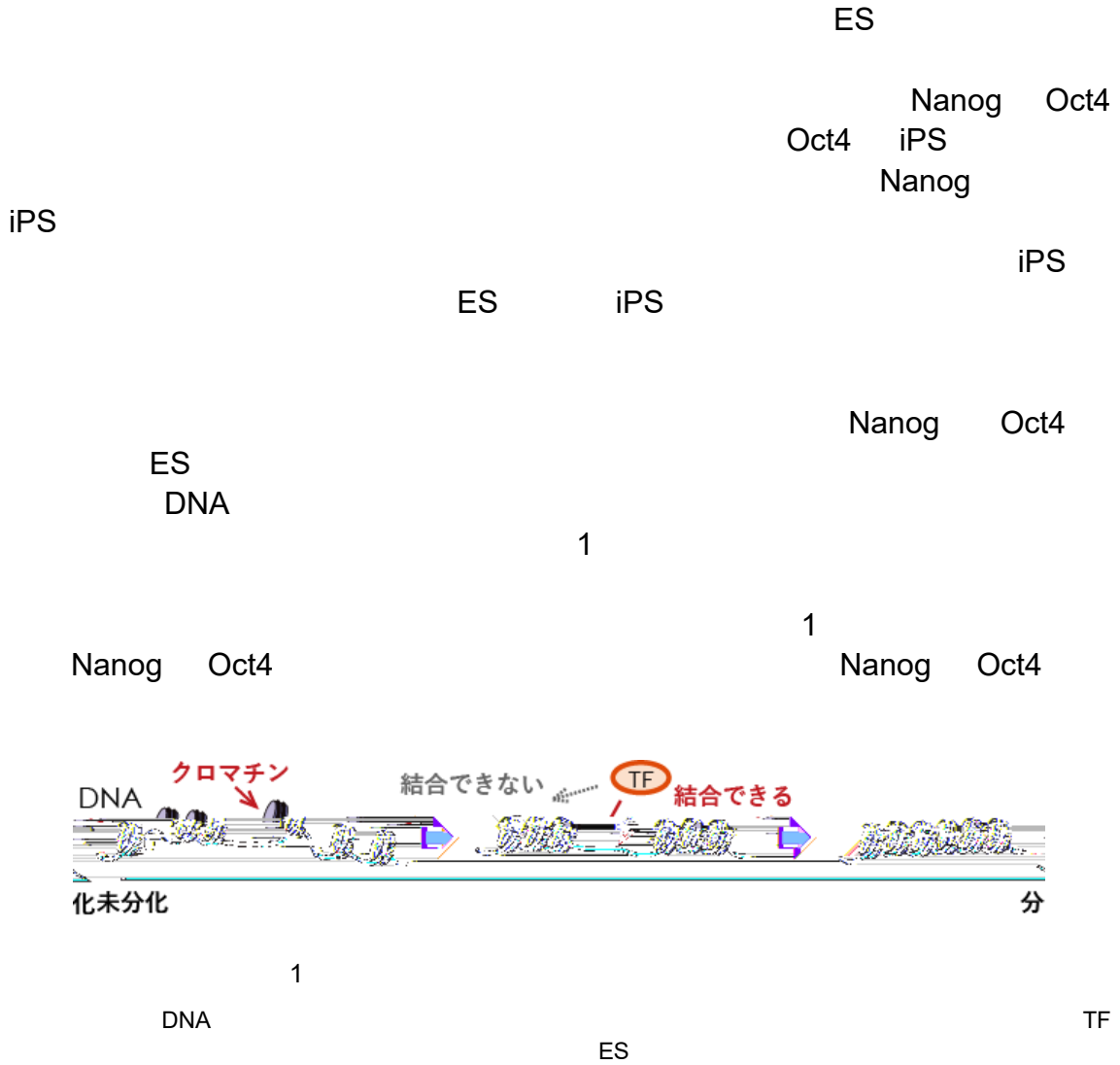
The EMBO Journal

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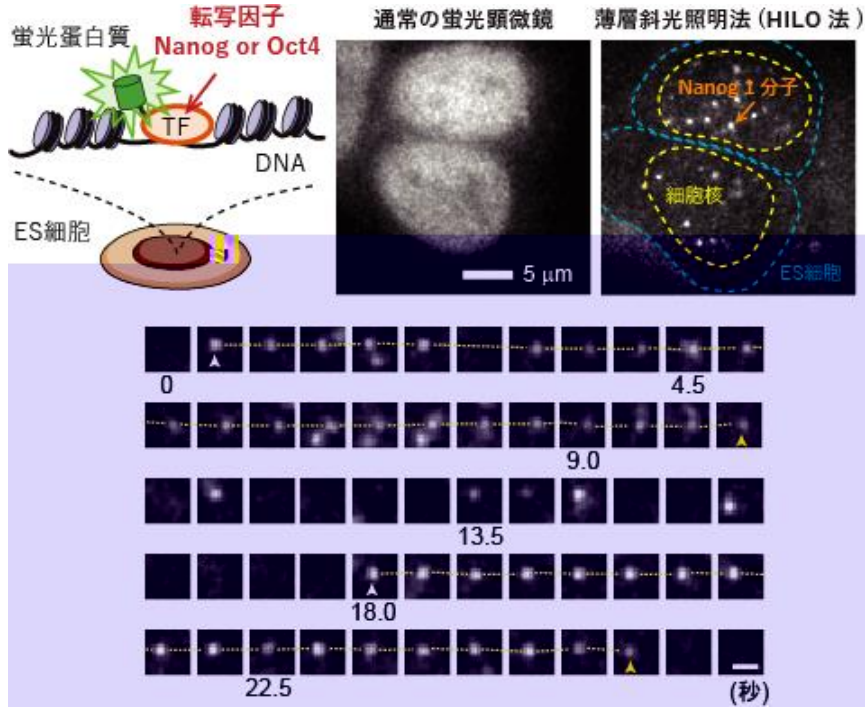


2023 8 23 7 24

[8]

Oct4

Nanog Oct4
2 Nanog



2 Nanog Oct4 1
HILO
ES TF HILO
1 Nanog
Nanog DNA
μm 1μm 1,000 1mm 1

[9]

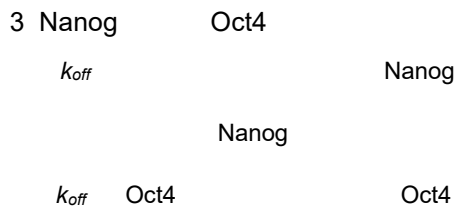
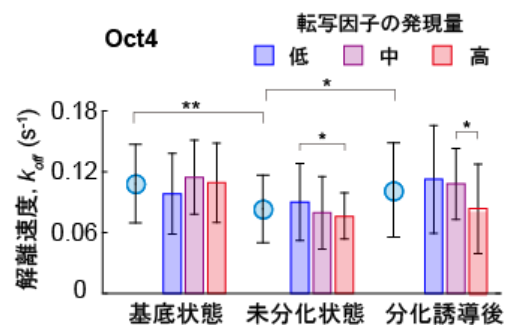
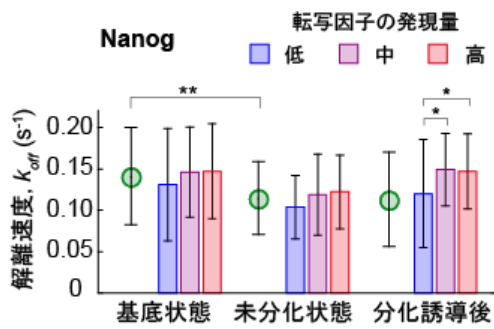
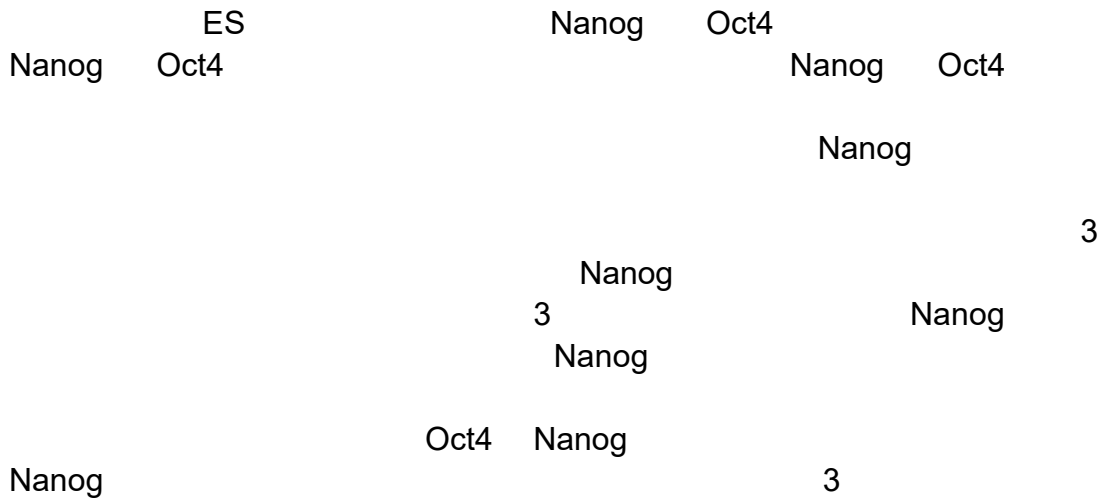
ES
ES

2

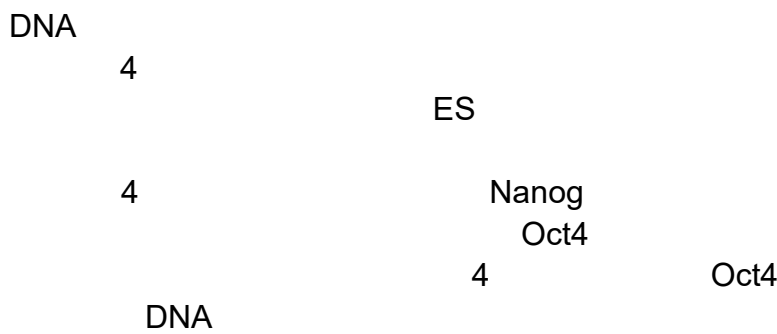
Nanog Oct4
1 1 500 2,000 2
4,000 500

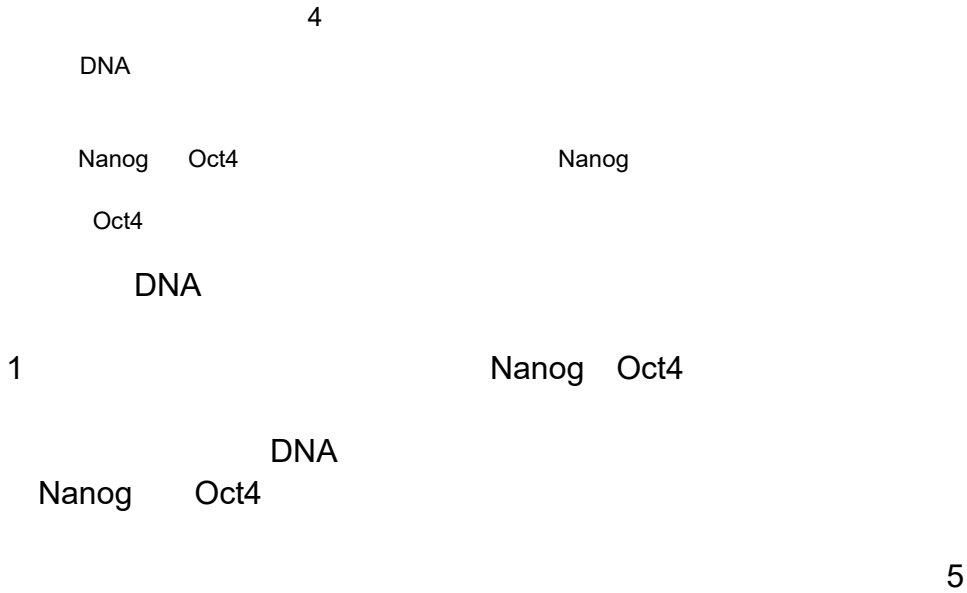
1 SMT [10]

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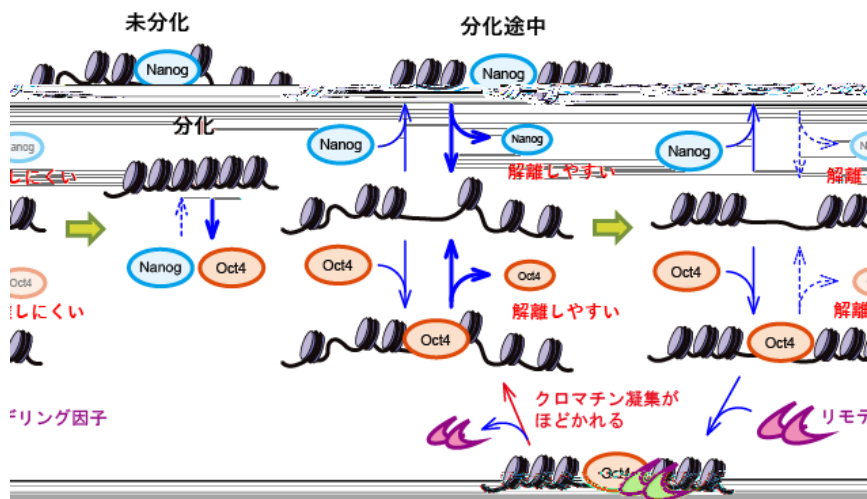
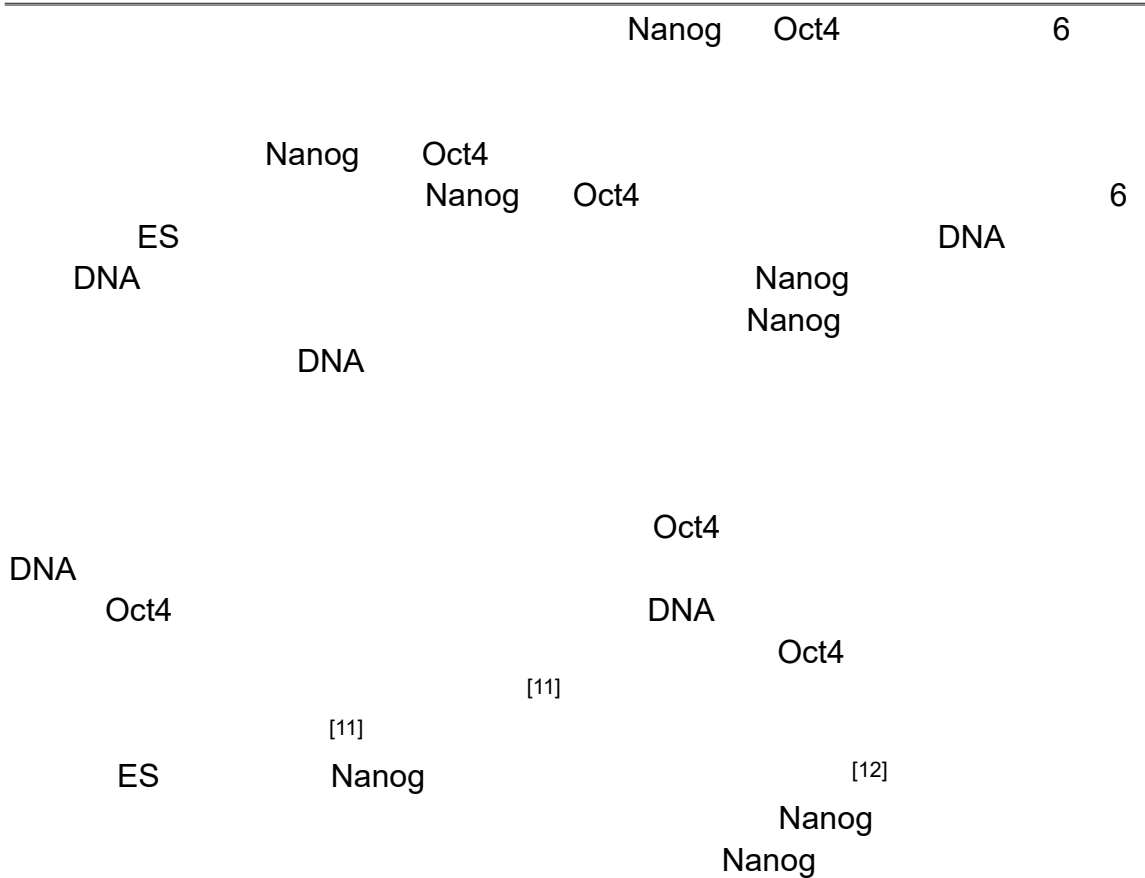


DNA





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6 Nanog Oct4

Nanog Oct4

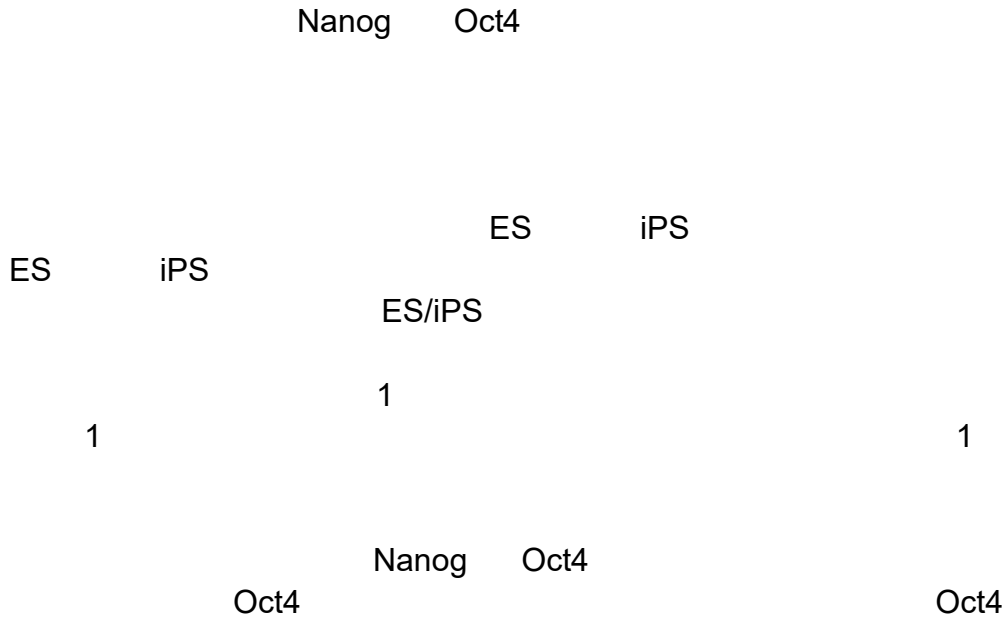
Nanog Oct4

Oct4

Nanog Oct4

ES

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 .



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 Shioj, Tomonobu M Watanabe

The EMBO Journal
DOI
10.15252/emj.2022112305



[1] ES

ES embryonic stem

[2]

DNA
RNA

[3] iPS

ES 2006
2012
iPS induced pluripotent stem

[4]

DNA DNA RNA
DNA DNA
DNA DNA
DNA DNA

[5]

2008 1960

[6]

DNA DNA DNA

[7]

1 HILO

[8]



[9]

ES

ES

[10] 1

SMT

SMT Single-molecule tracking

[11]

[12]

ES

ES

Nanog

ES



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