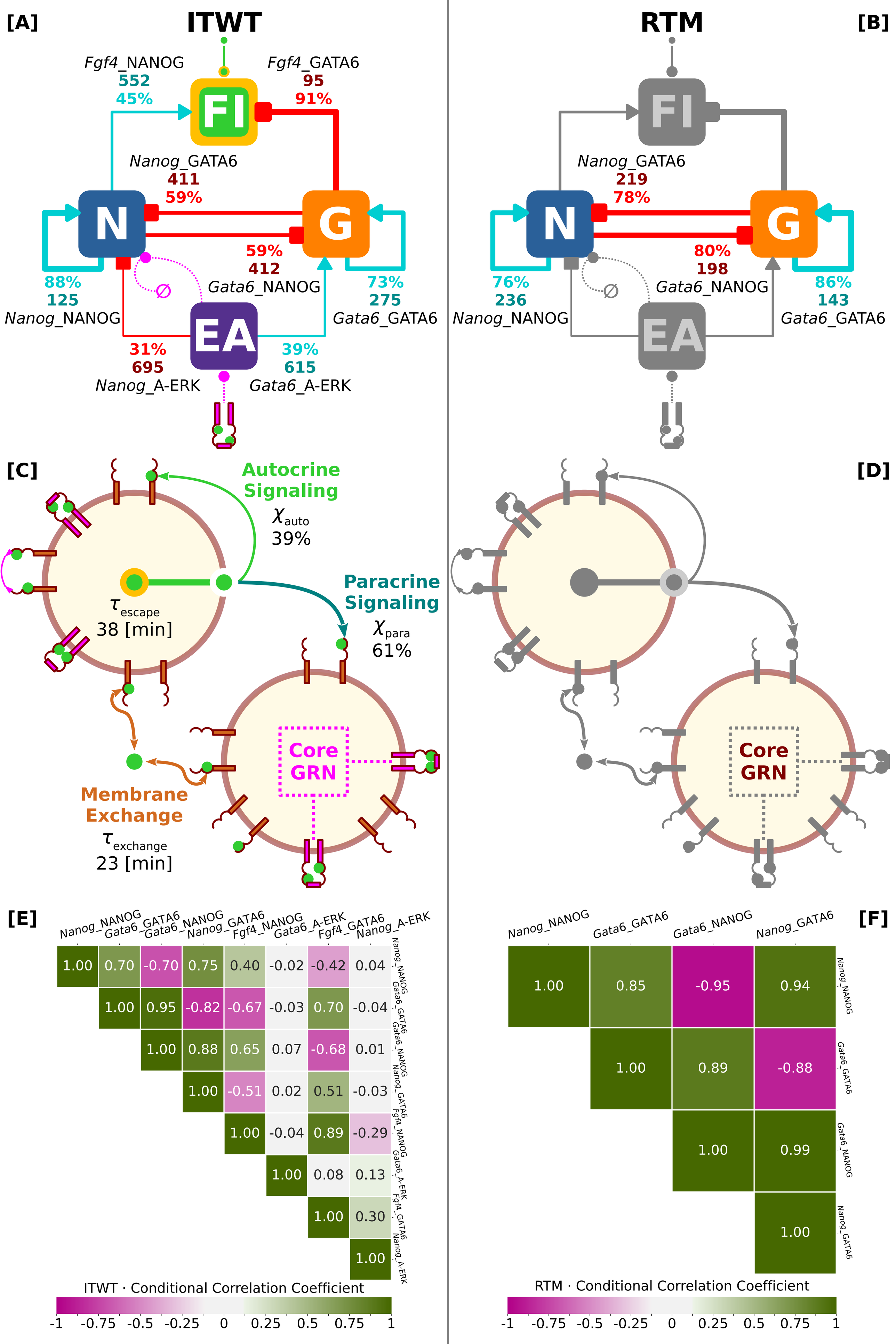
[A]
ITWT
Fgf4_NANOG
552
45%
Fgf4_GATA6
95
91%
FI
Nanog_GATA6
411
59%
N
G
59%
412
Gata6_NANOG
88%
125
Nanog_NANOG
73%
275
Gata6_GATA6
EA
31%
695
Nanog_A-ERK
39%
615
Gata6_A-ERK
[B]
RTM
FI
Nanog_GATA6
219
78%
N
G
80%
198
Gata6_NANOG
76%
236
Nanog_NANOG
86%
143
Gata6_GATA6
EA
[C]
Autocrine Signaling
χ_{auto}
39%
Paracrine Signaling
χ_{para}
61%
τ_{escape}
38 [min]
Core GRN
Membrane Exchange
$\tau_{exchange}$
23 [min]
[D]
Core GRN
[E]
Nanog_NANOG
Gata6_GATA6
Gata6_NANOG
Nanog_GATA6
Fgf4_NANOG
Gata6_A-ERK
Fgf4_GATA6
Nanog_A-ERK
1.00 0.70 -0.70 0.75 0.40 -0.02 -0.42 0.04
1.00 0.95 -0.82 -0.67 -0.03 0.70 -0.04
1.00 0.88 0.65 0.07 -0.68 0.01
1.00 -0.51 0.02 0.51 -0.03
1.00 -0.04 0.89 -0.29
1.00 0.08 0.13
1.00 0.30
1.00
ITWT · Conditional Correlation Coefficient
-1 -0.75 -0.5 -0.25 0 0.25 0.5 0.75 1
[F]
Nanog_NANOG
Gata6_GATA6
Gata6_NANOG
Nanog_GATA6
1.00 0.85 -0.95 0.94
1.00 0.89 -0.88
1.00 0.99
1.00
RTM · Conditional Correlation Coefficient
-1 -0.75 -0.5 -0.25 0 0.25 0.5 0.75 1