

# Category Errors in the Pluripotency Network

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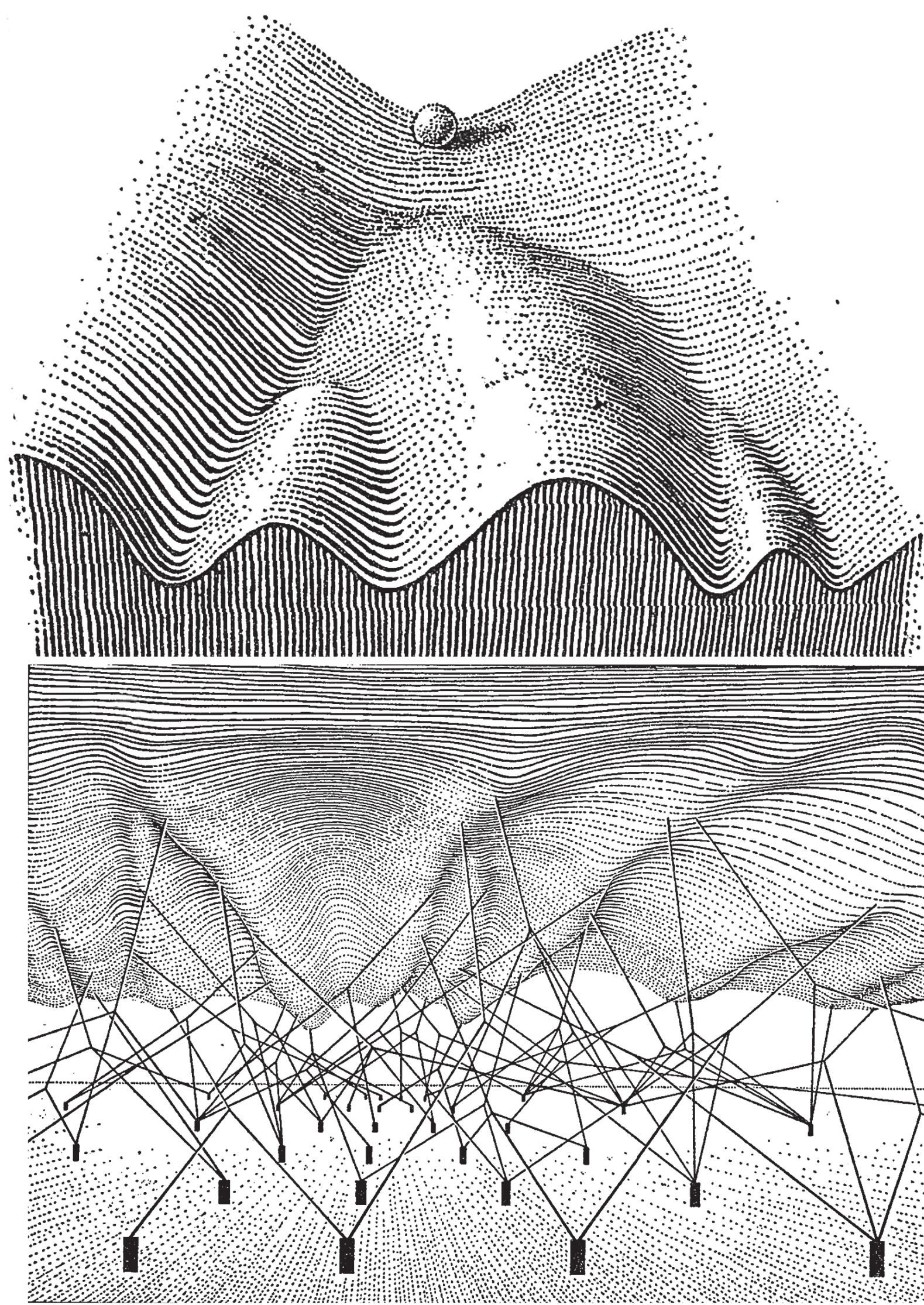
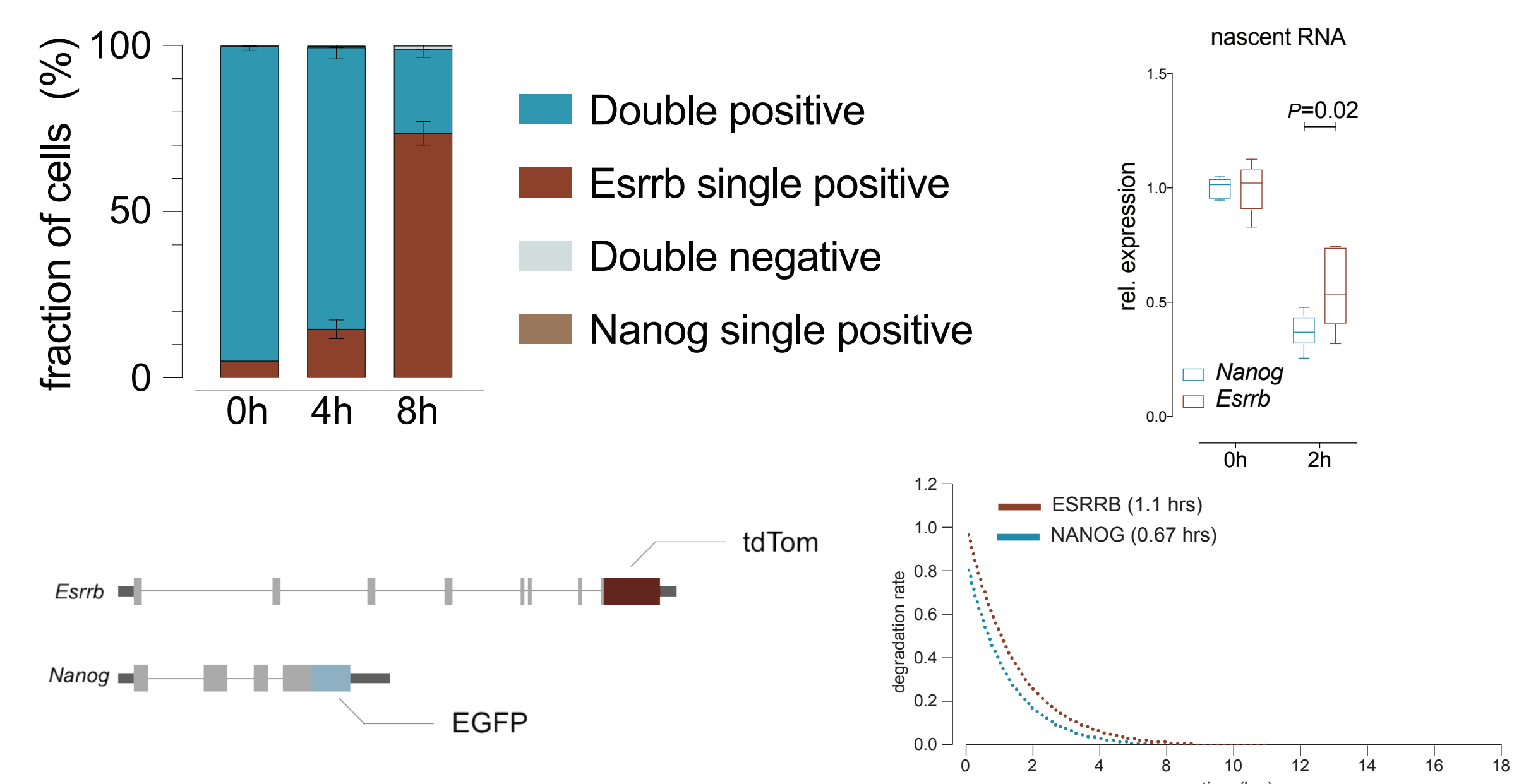


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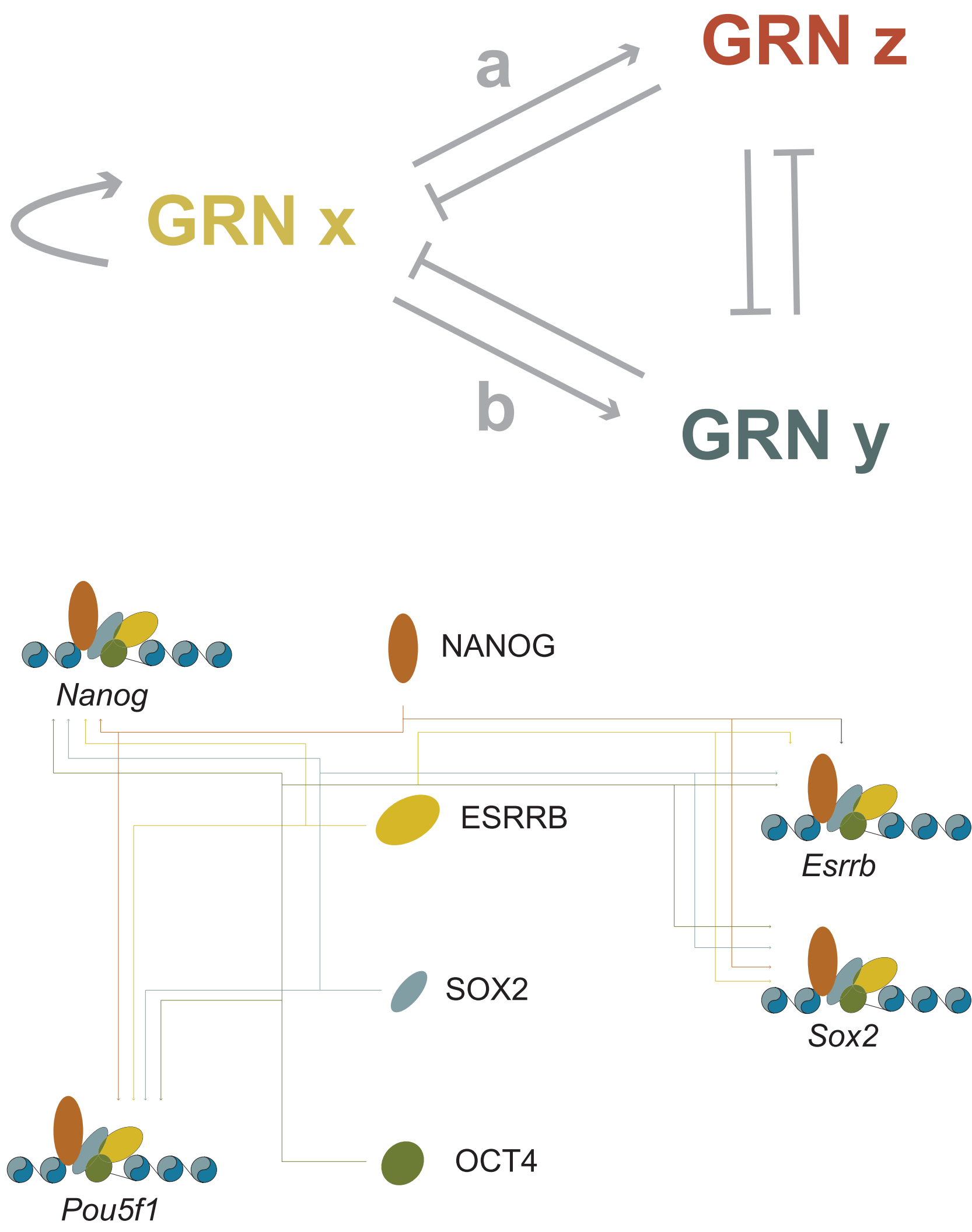
## -main findings:

- ESRRB acts as an endodermal inducer in the absence of NANOG
- Transcription factor ratios are important in network function
- NANOG titrates ESRRB away from extraembryonic-associated loci
- ERK oscillations may induce ICM-like priming

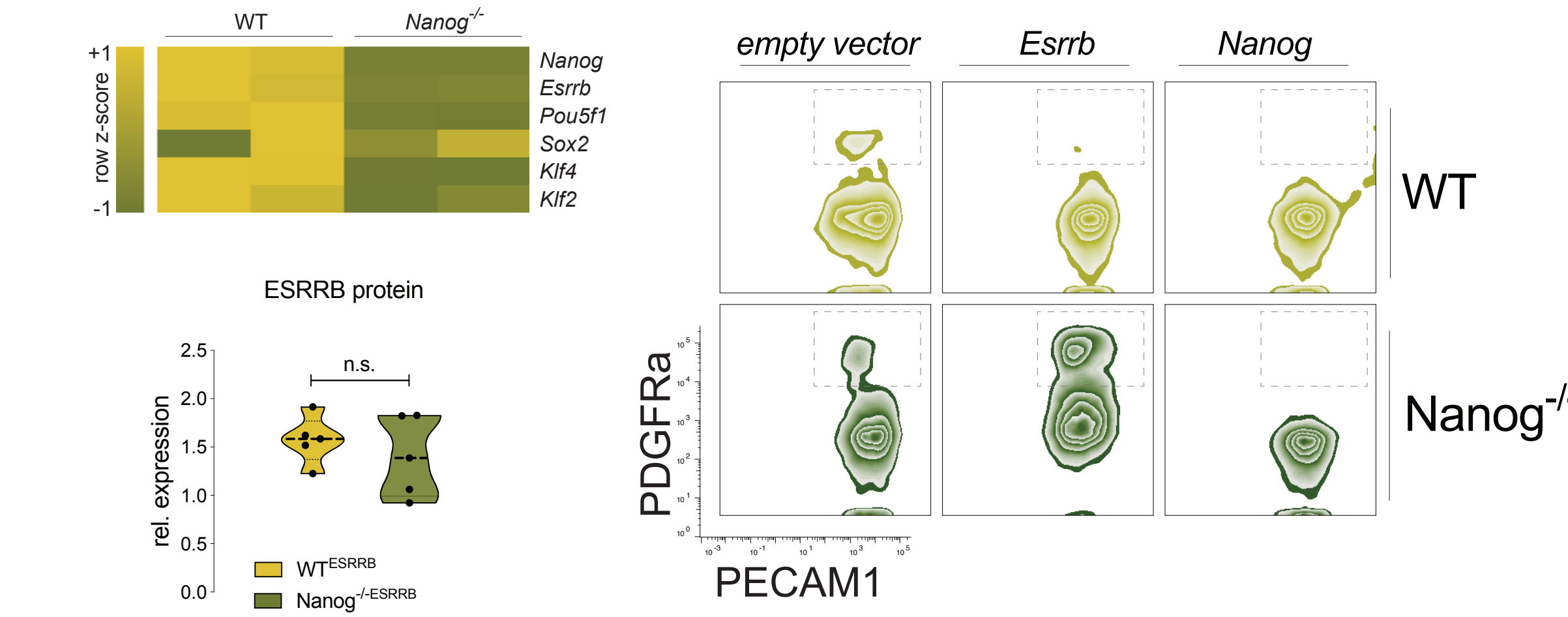
### -Differential degradation of ESRRB and NANOG in response to ERK



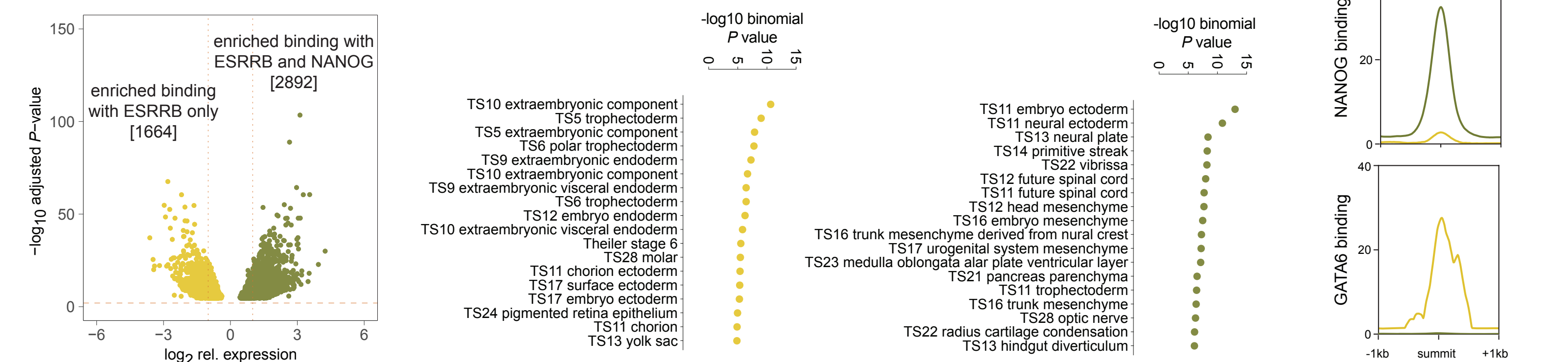
The Strategy of the Genes, 1957



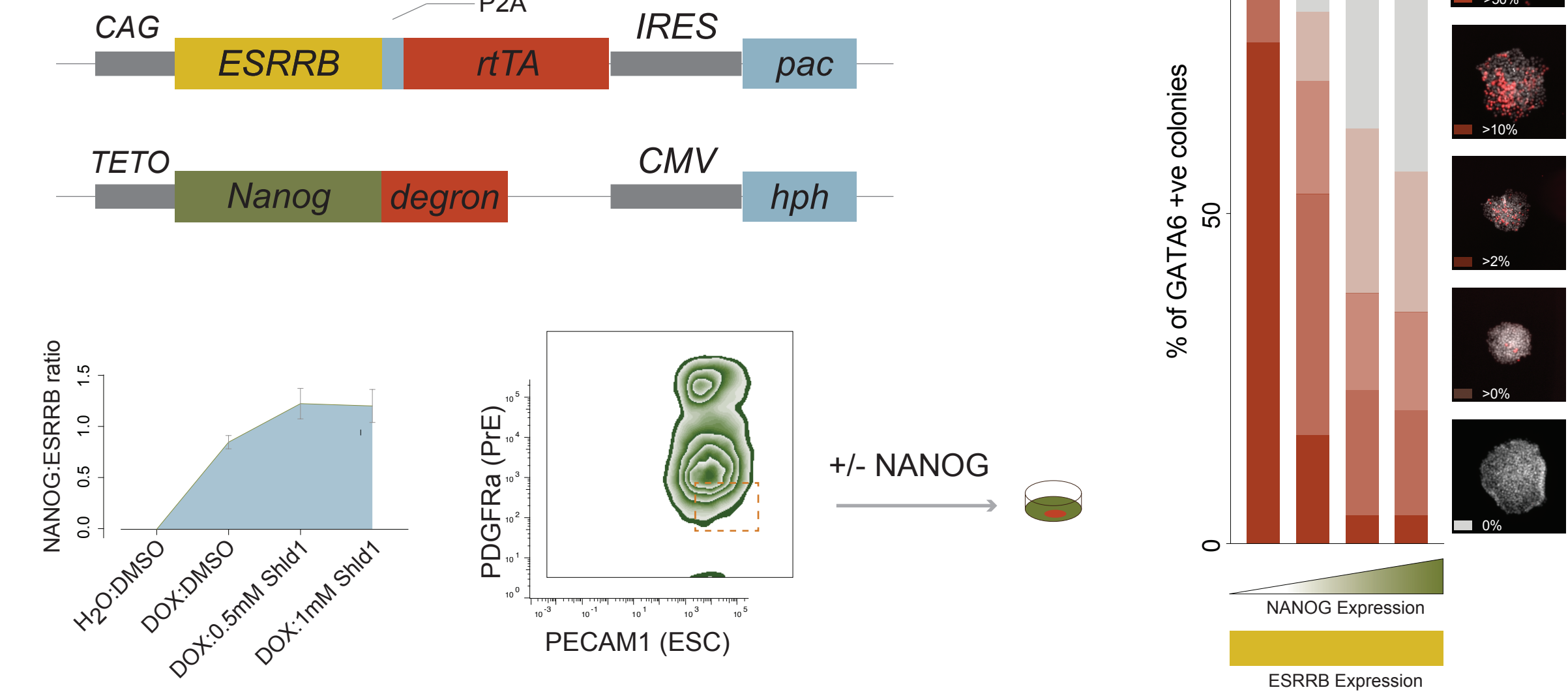
### -ESRRB induces an PrE-like population in the absence of NANOG



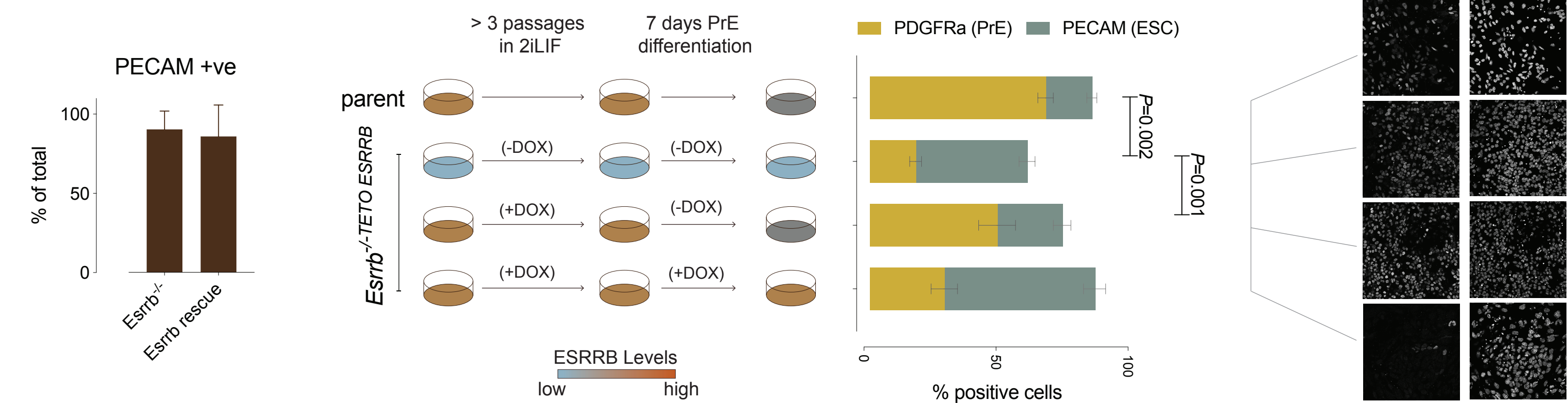
### -NANOG titrates ESRRB away from PrE-associated loci



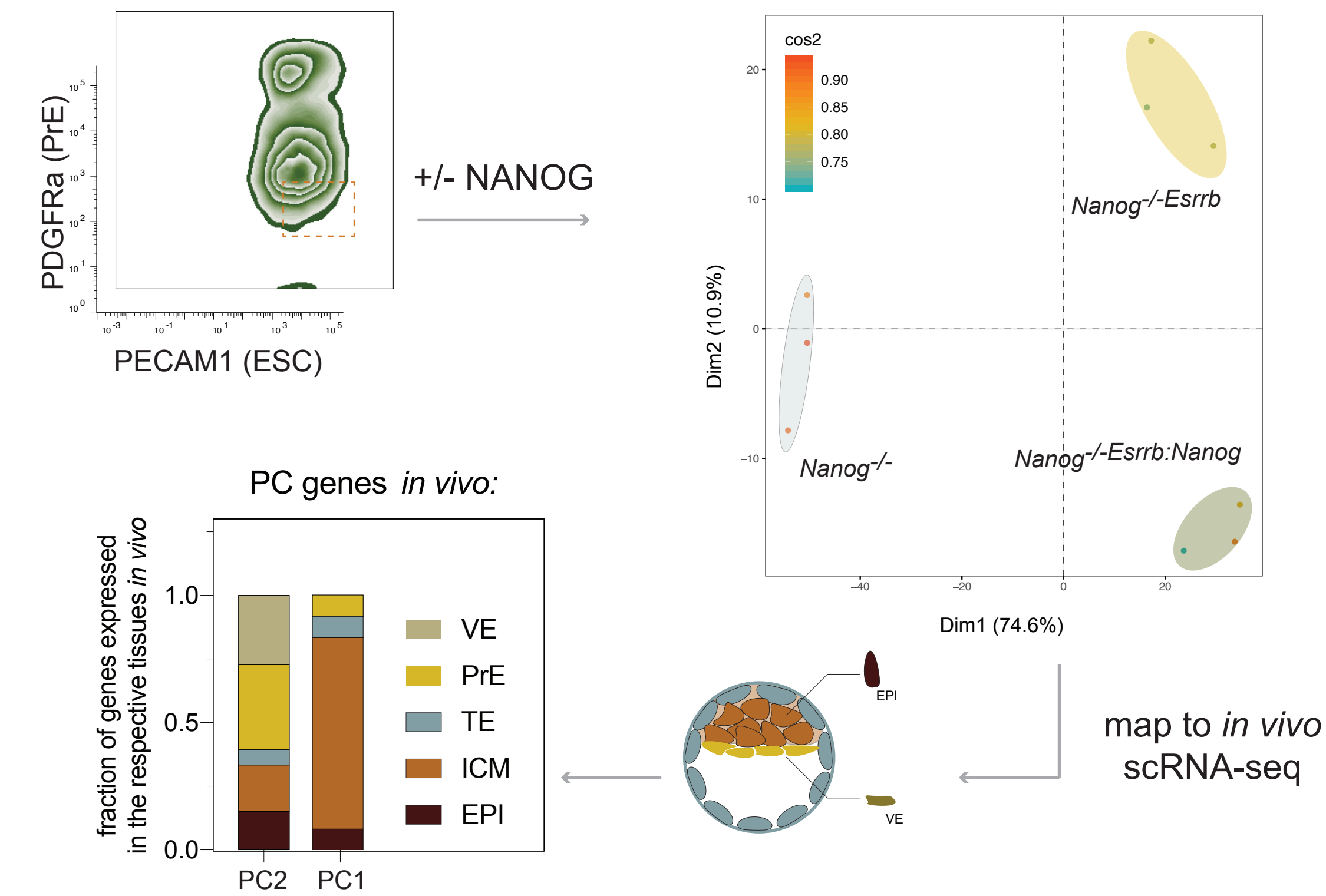
### -ESRRB:NANOG ratio affects PrE specification



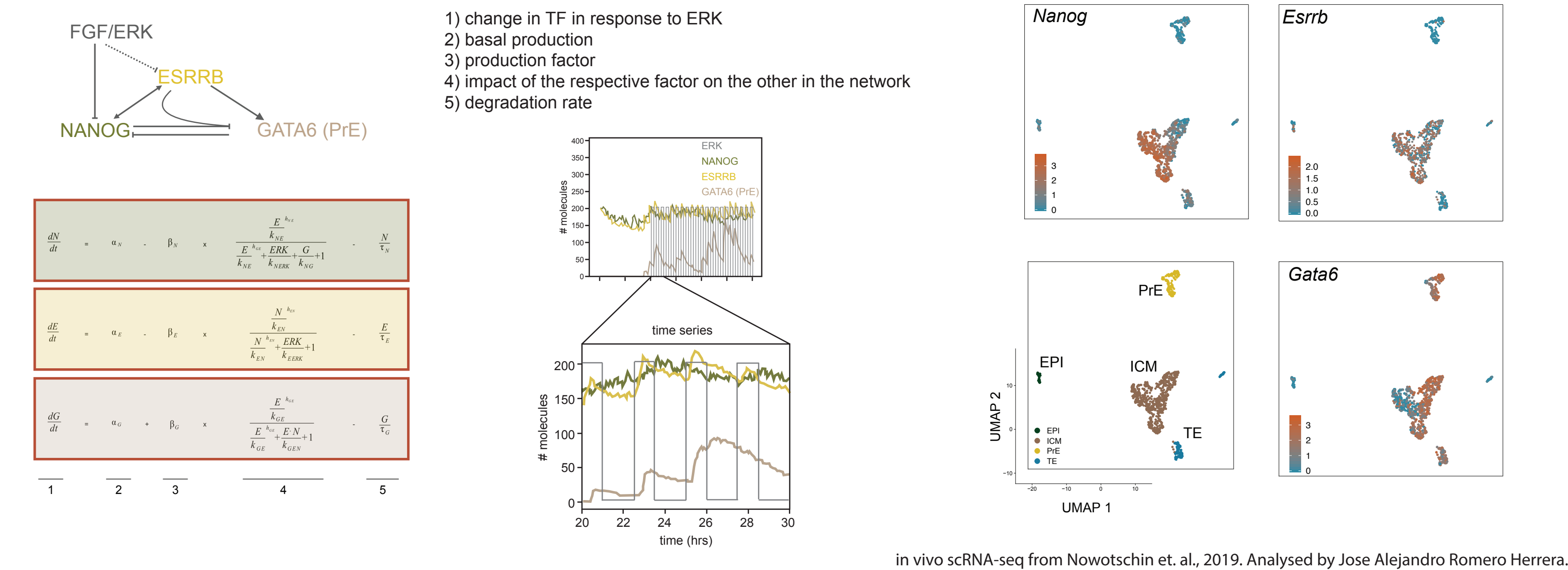
### -ESRRB is required for PrE but not neural differentiation



### -ESRRB induces ICM and extraembryonic transcriptional signatures



### -Mathematical modeling predicts ICM-like priming from ERK oscillations



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