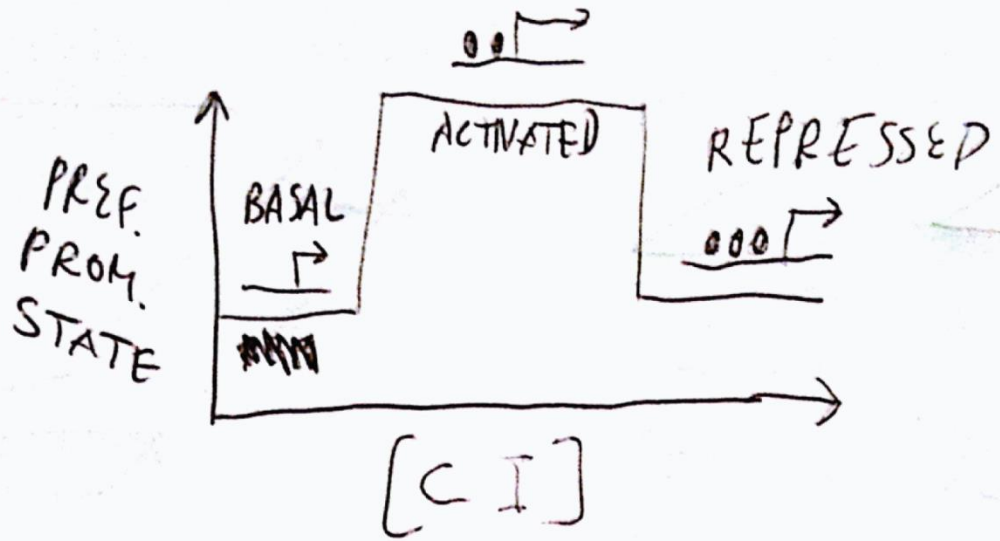


The Evolution of a Figure

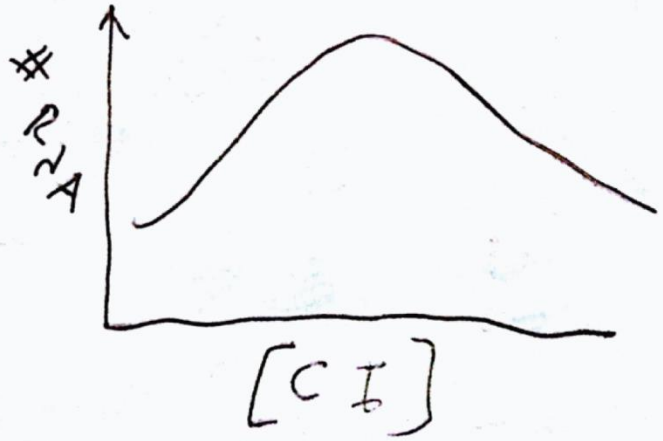
12.11.2014 - 03.11.2016

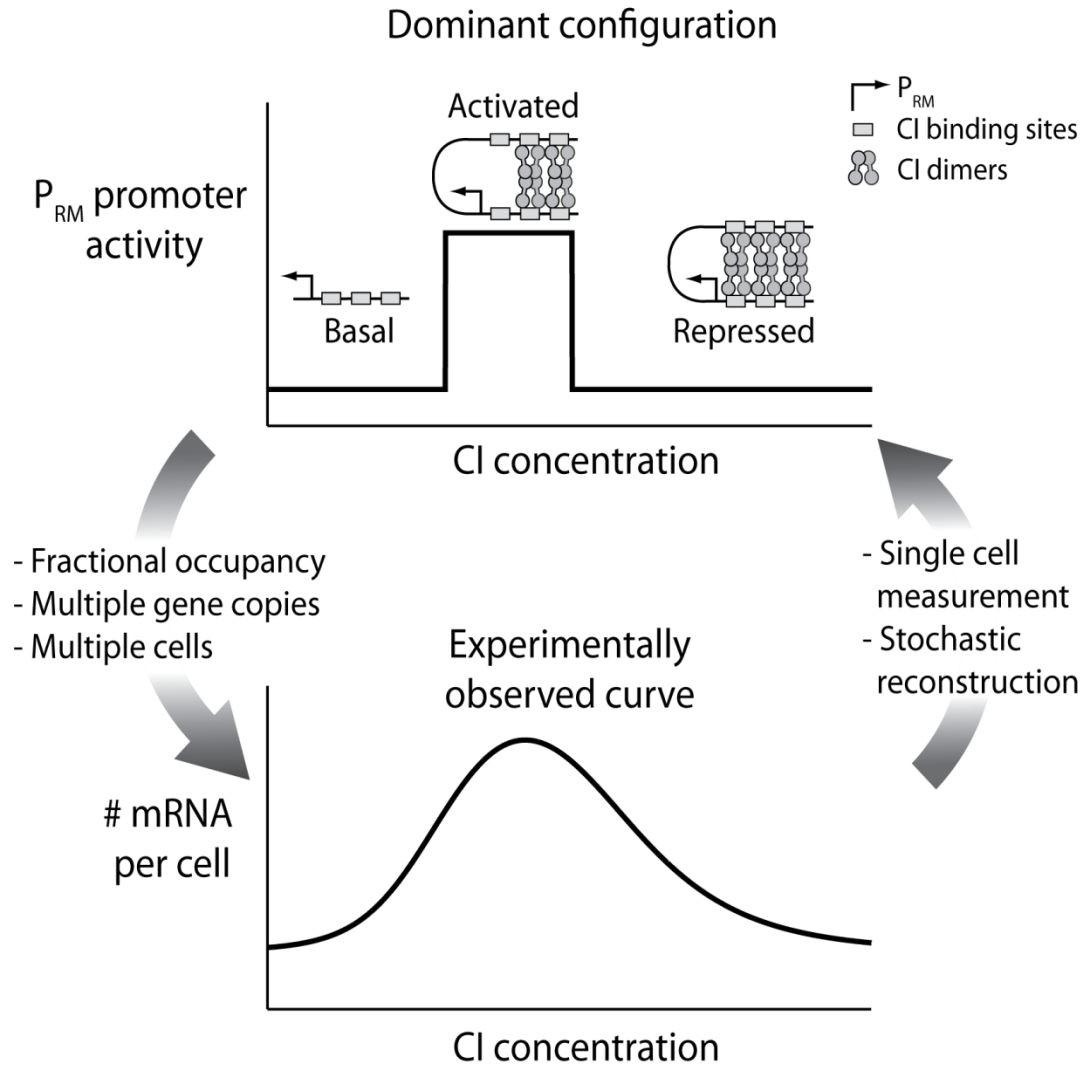


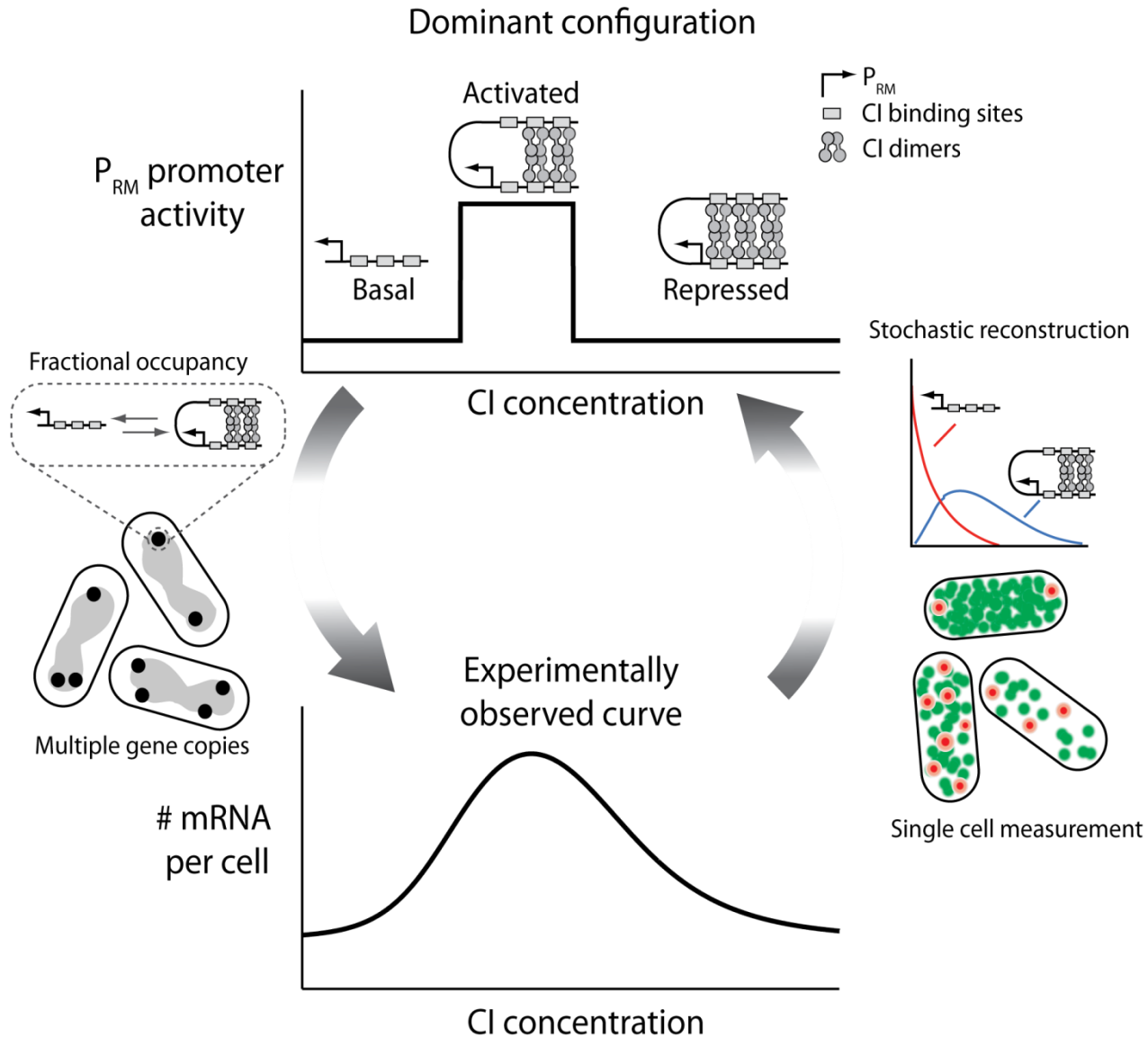
- FRAC. OCC
- MULTIP. GENE COPIES
- MULTIP. CELLS



- SINGLE CELL MSRMNT
- STOCH RECON ST. OF SINGLE-GENE PURE PRO. ST.

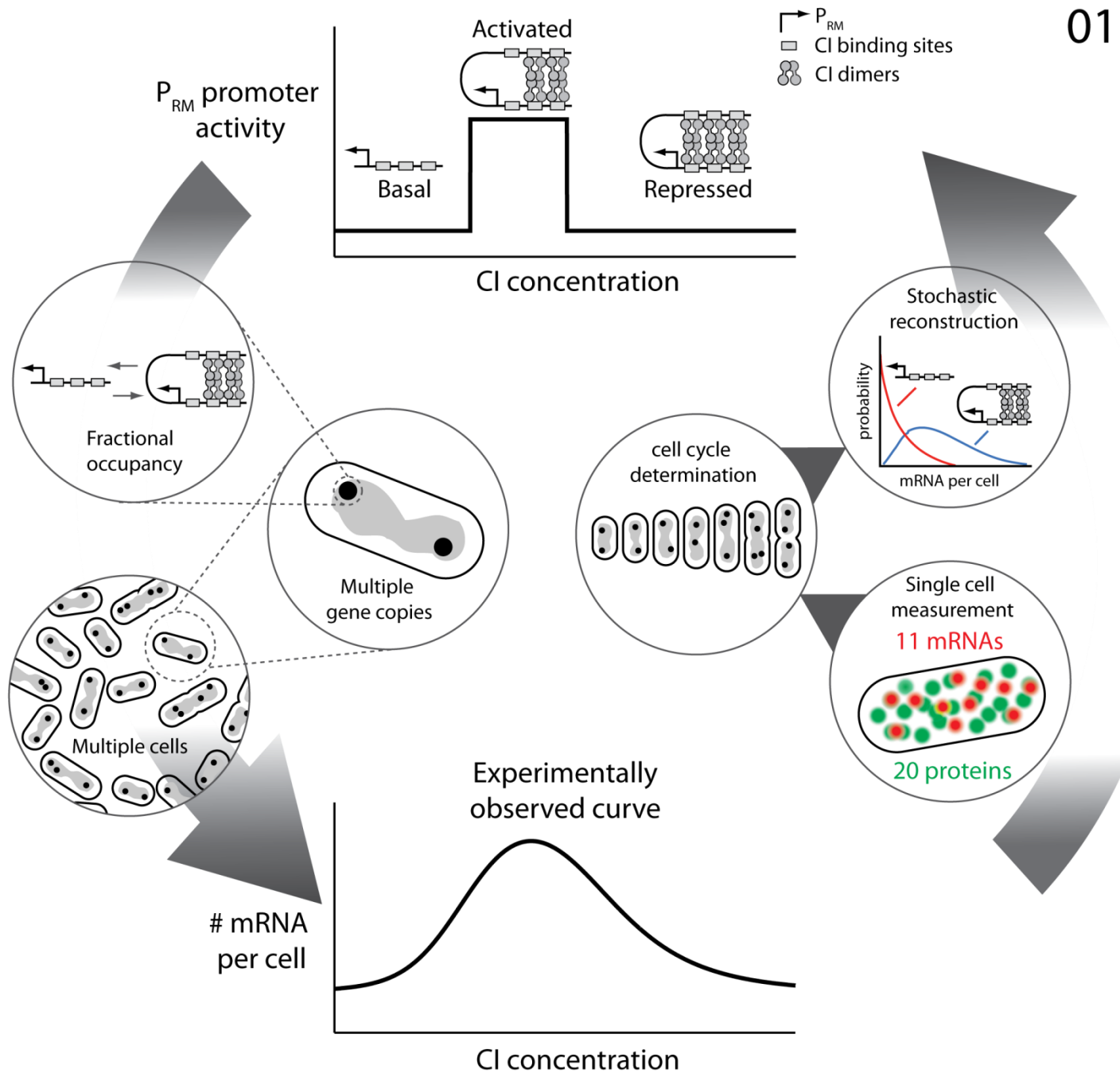






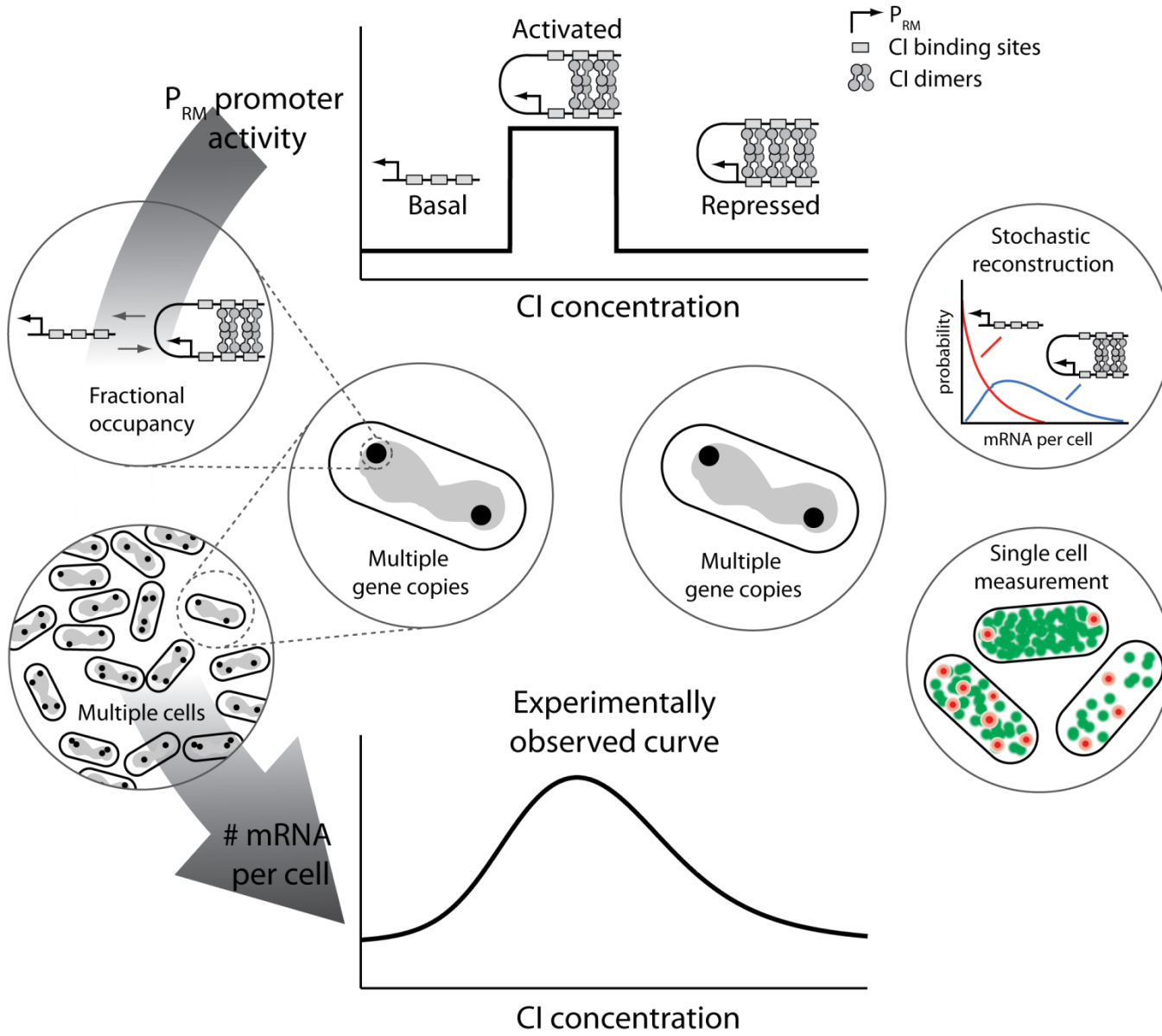
Dominant configuration

01.26.2015



Dominant configuration

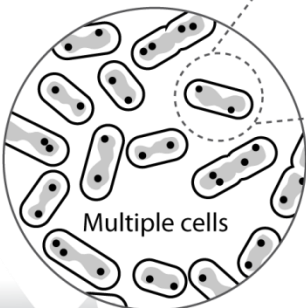
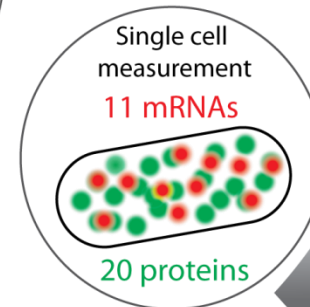
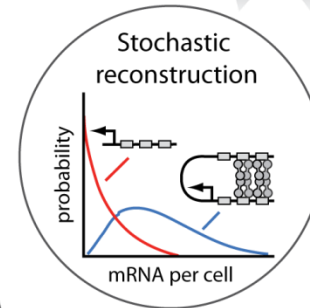
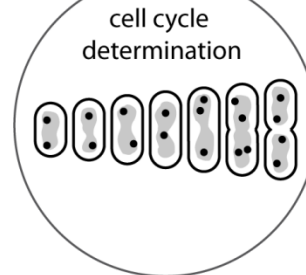
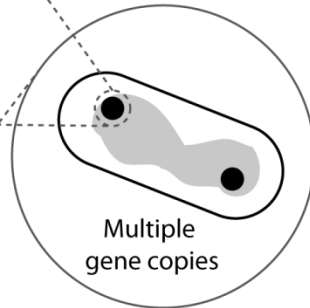
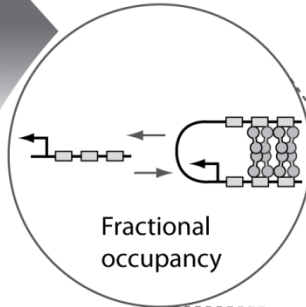
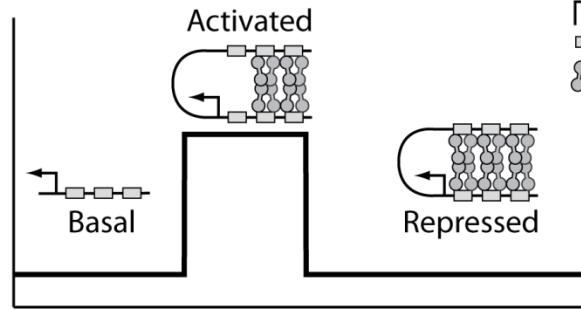
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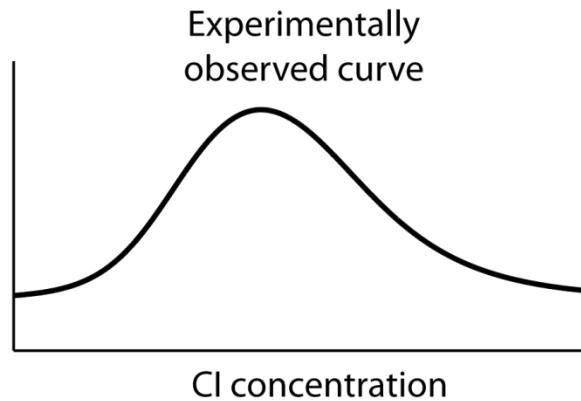
Dominant configuration

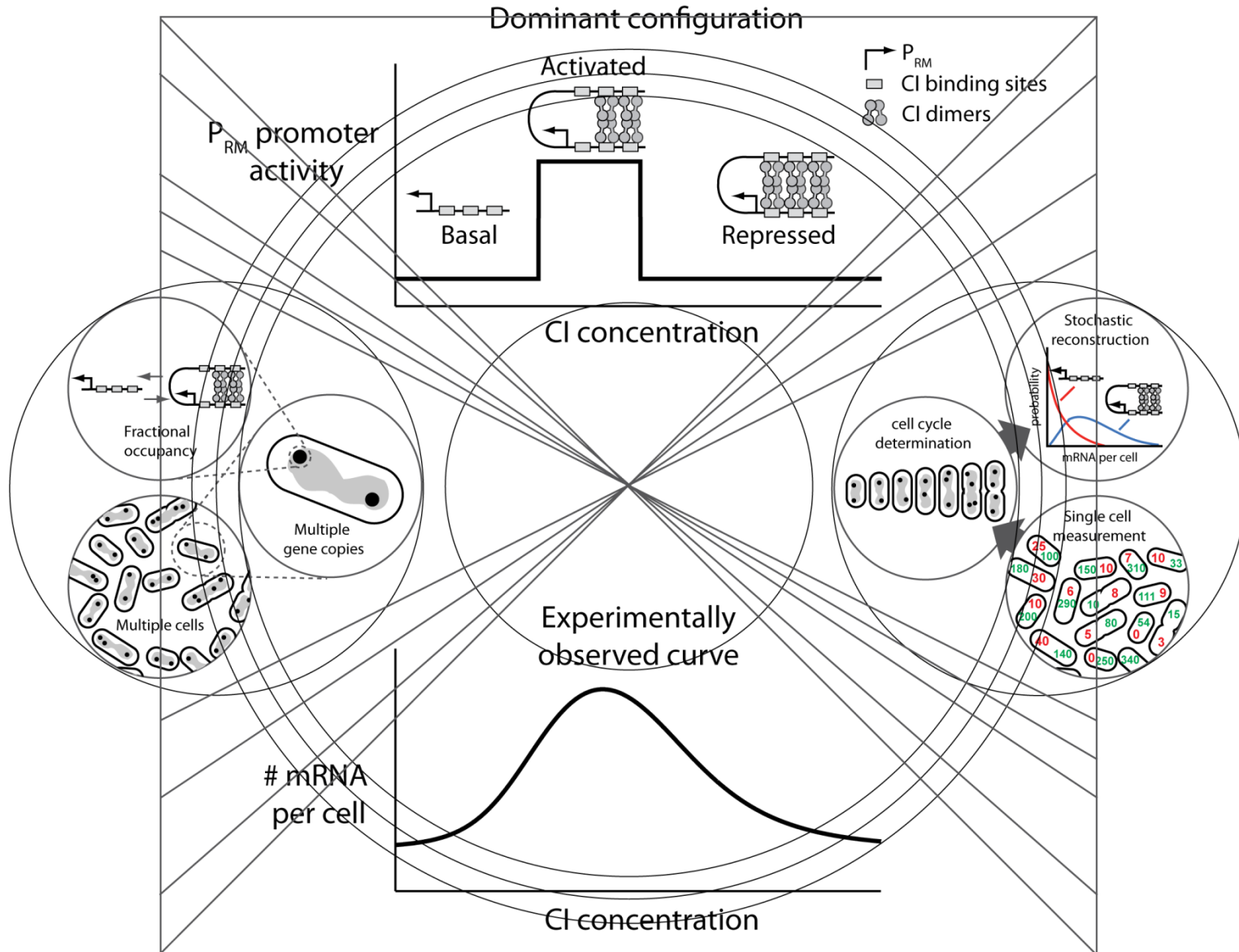
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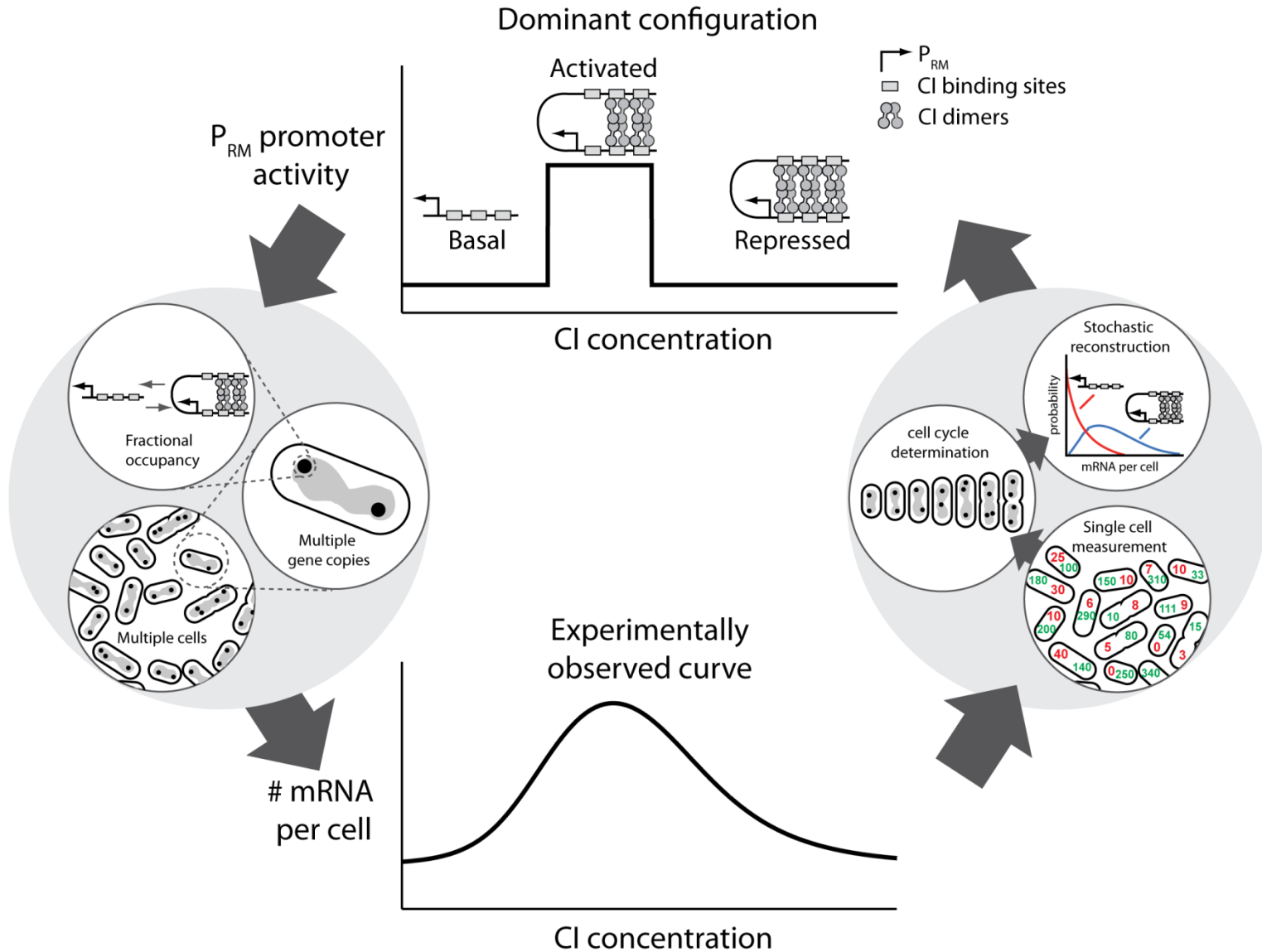
P_{RM} promoter activity



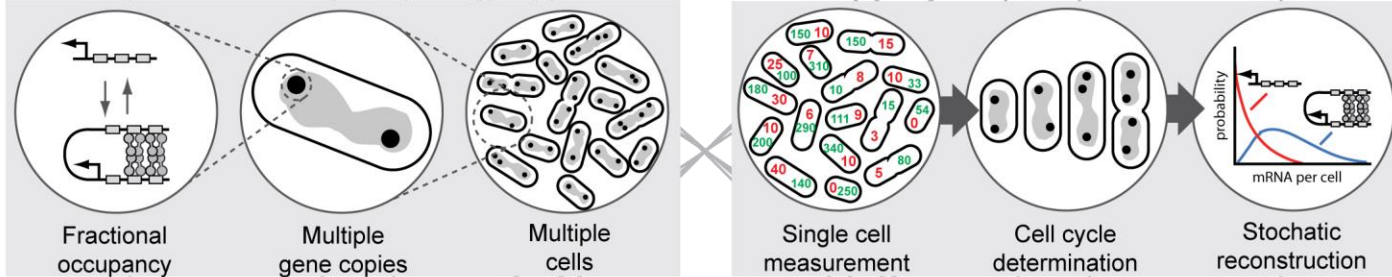
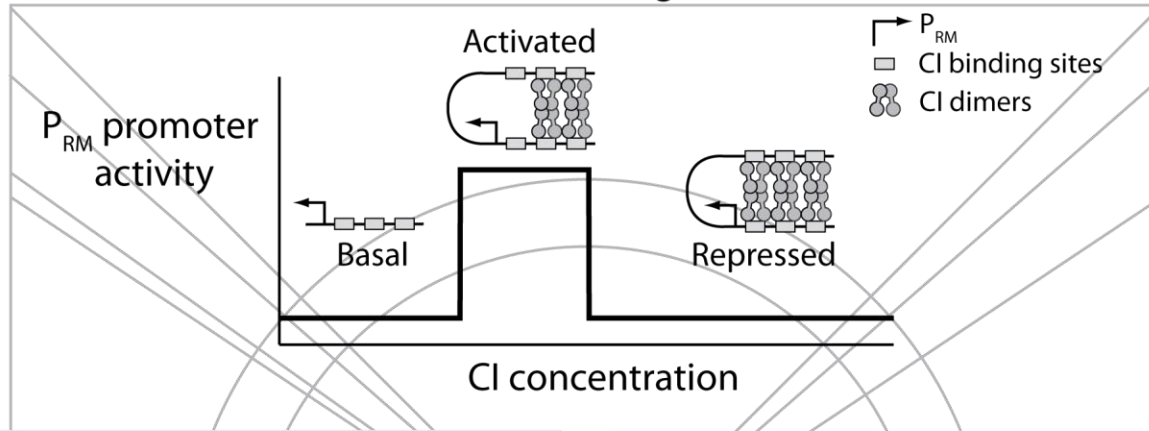
mRNA per cell



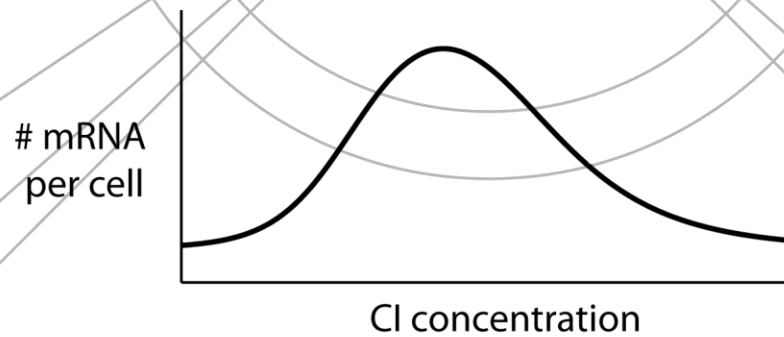


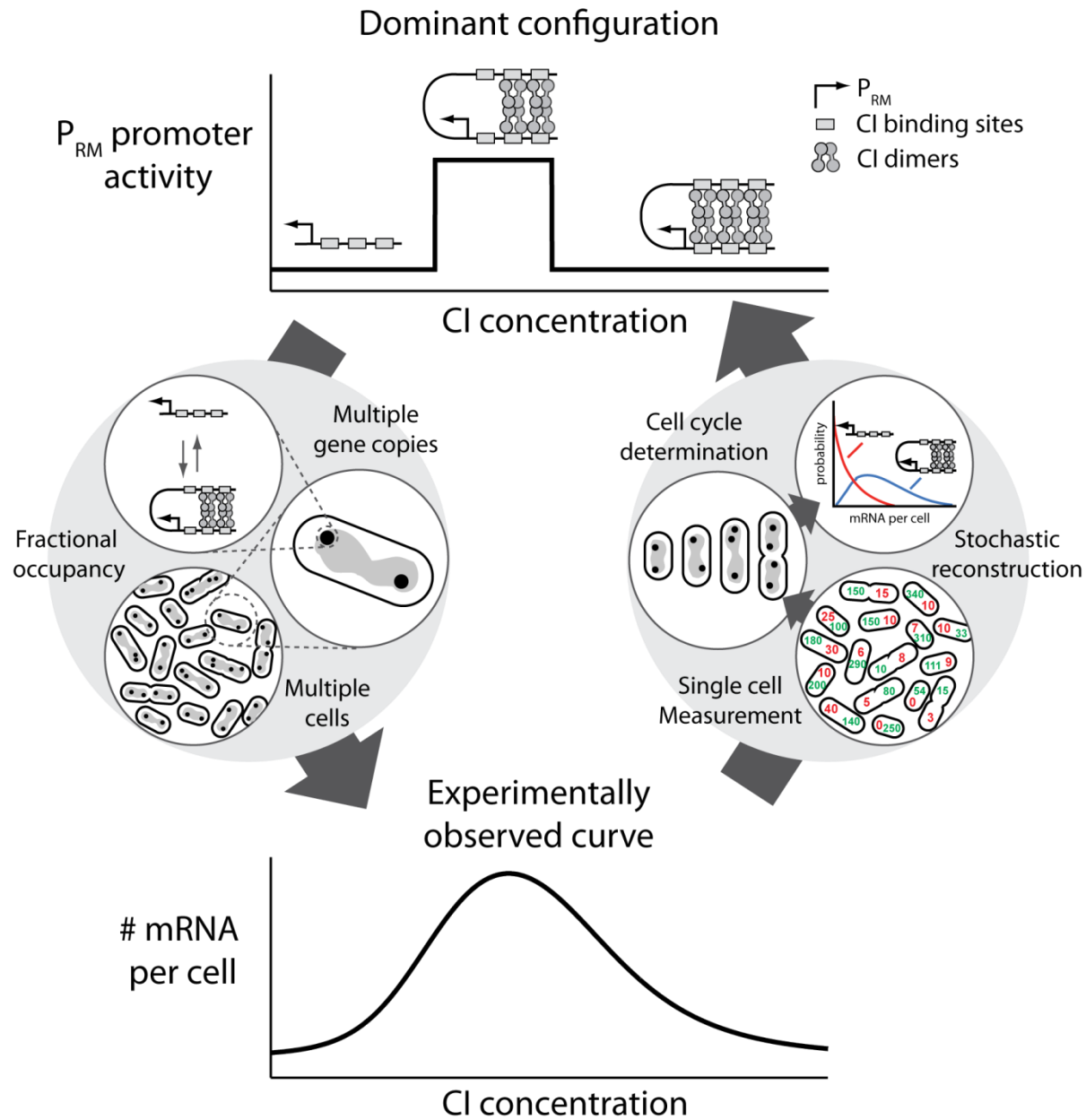


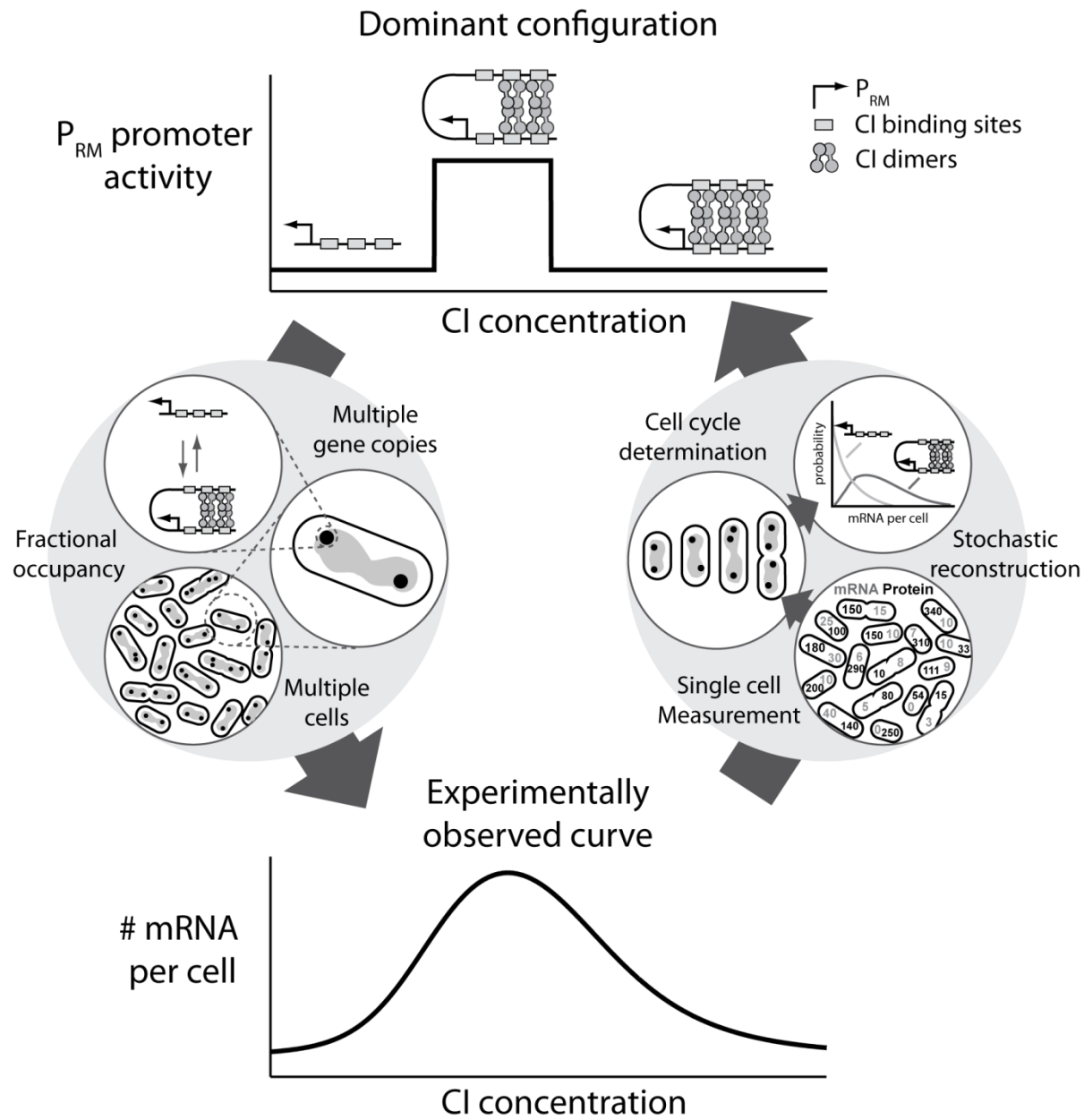
Dominant configuration

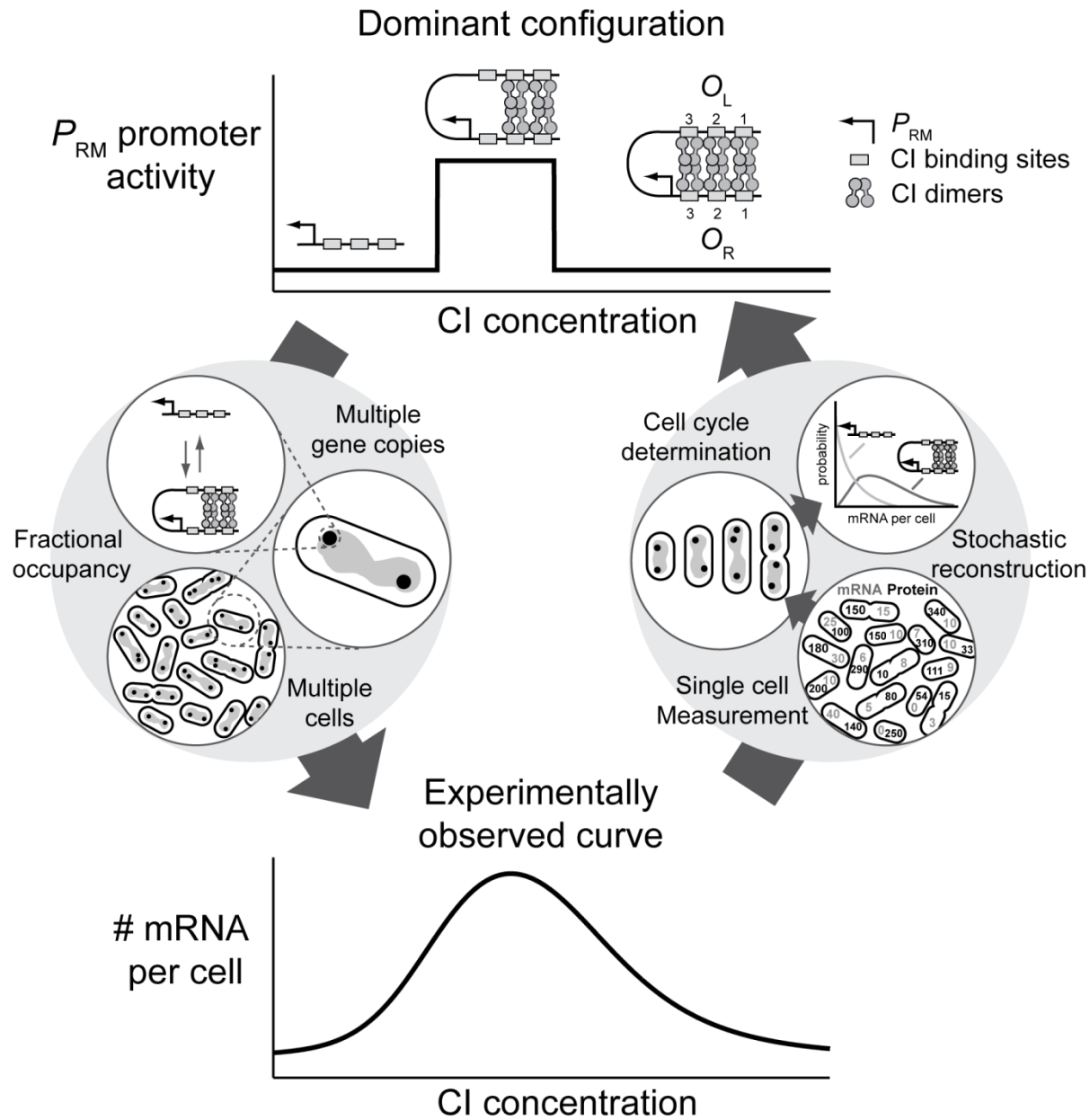


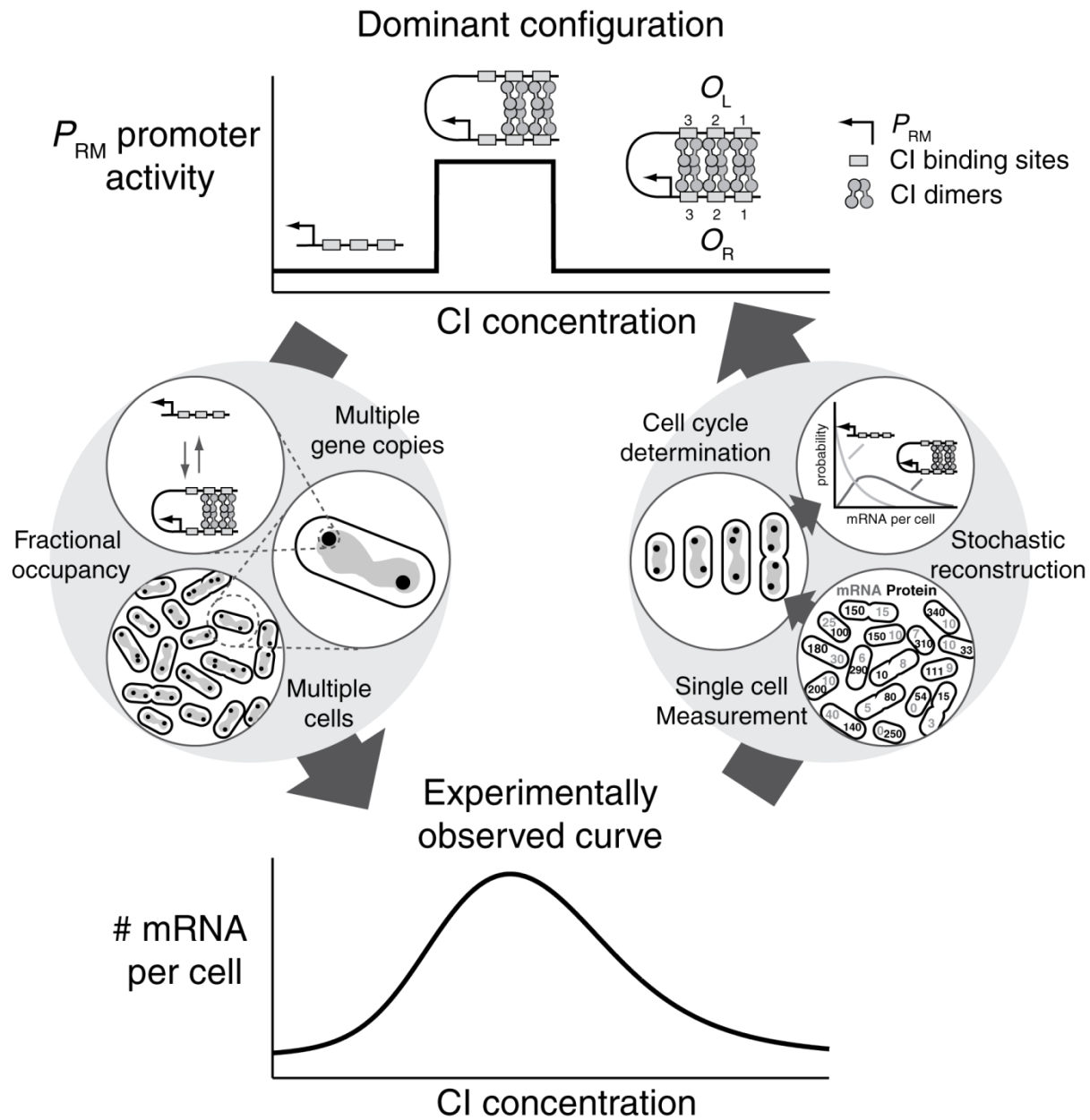
Experimentally observed curve

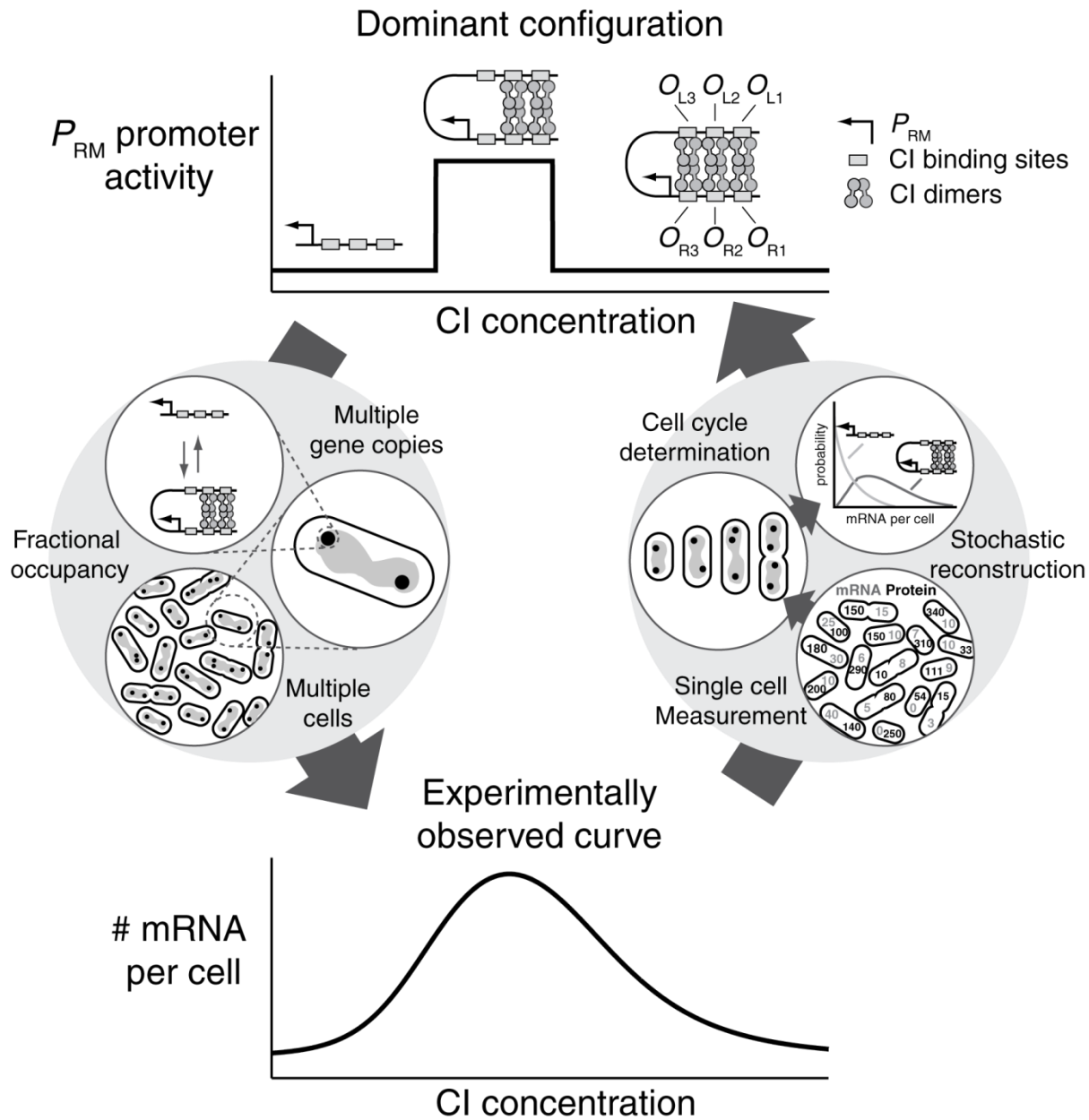






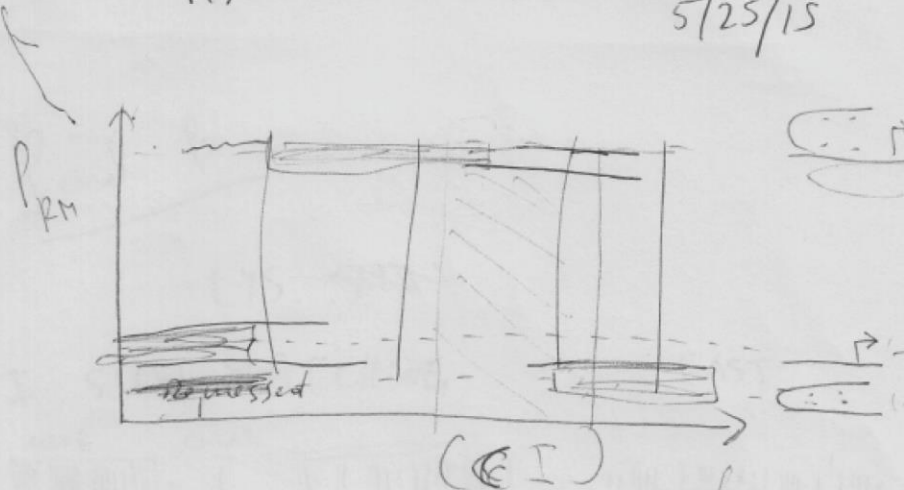






FIGS W. COMMENTS-

IDO
5/25/15



LYS09



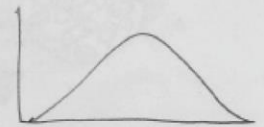
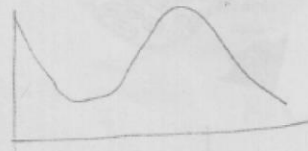
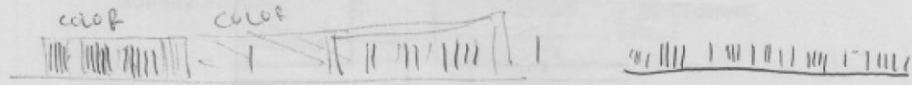
Panel B

Fig. 1

LYS. SLOW

SC. I: SLOW SWITCHING

FAST



198 ± 13

174 ± 12

$186 \pm$

$$\sqrt{12^2 + 13^2}$$

Figure 1A

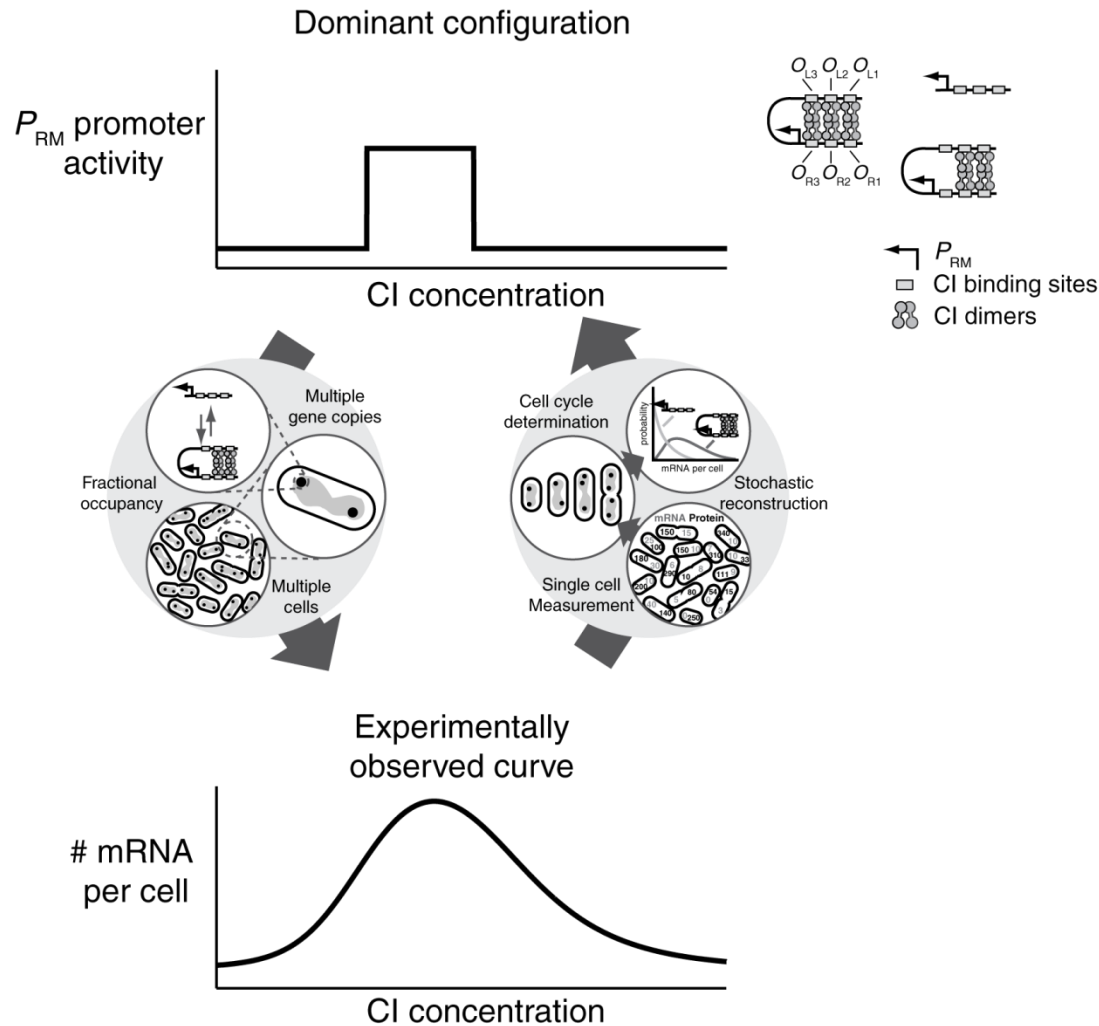
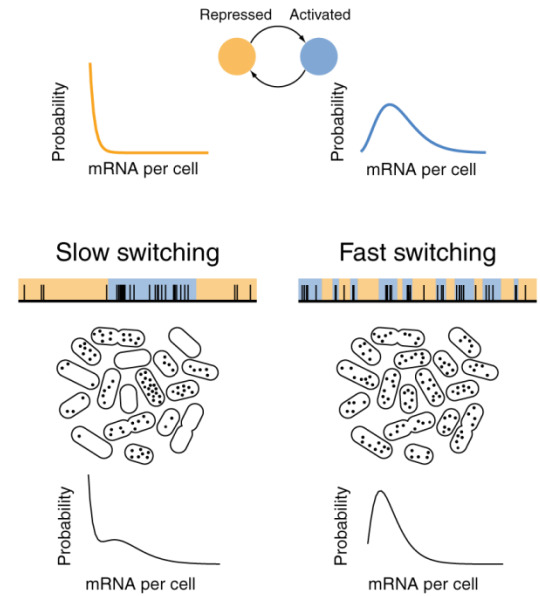
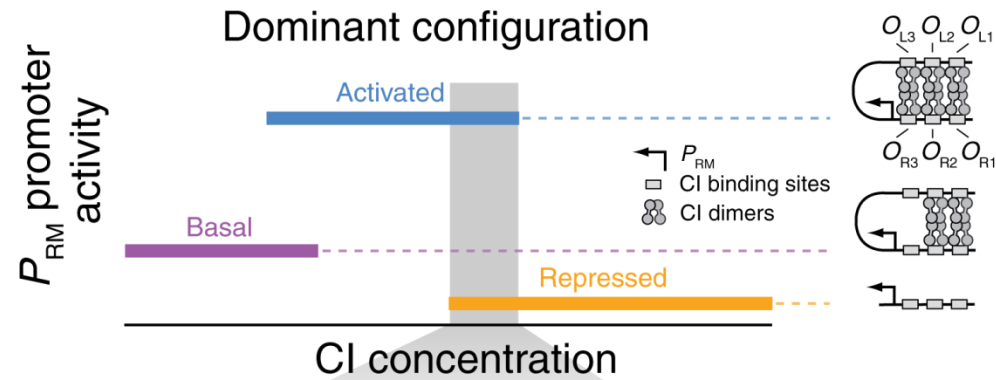
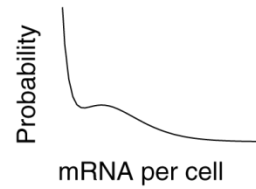
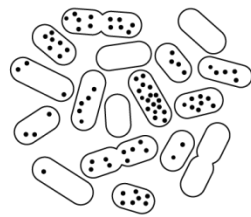


Figure 1B

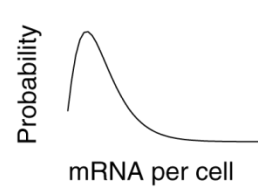
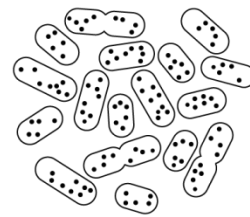


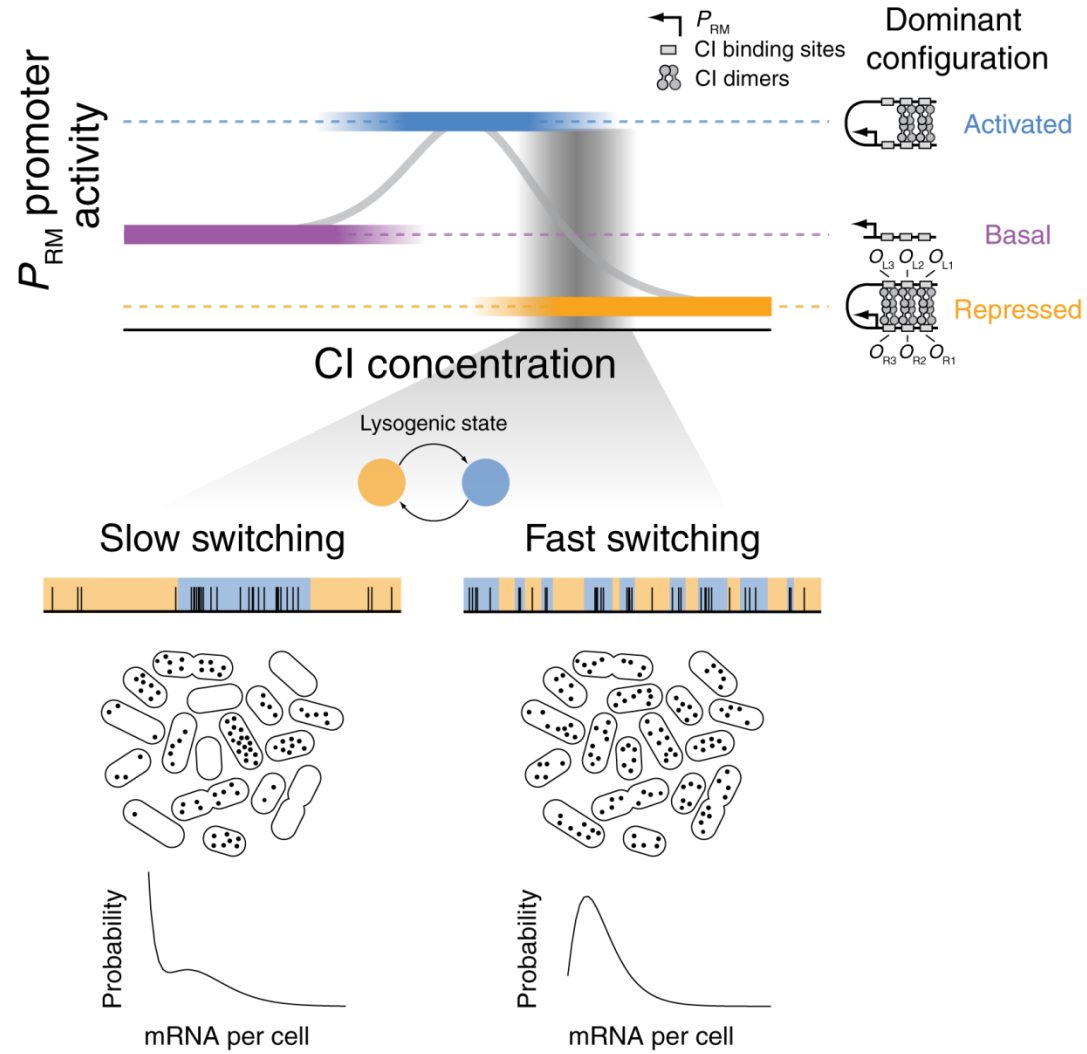


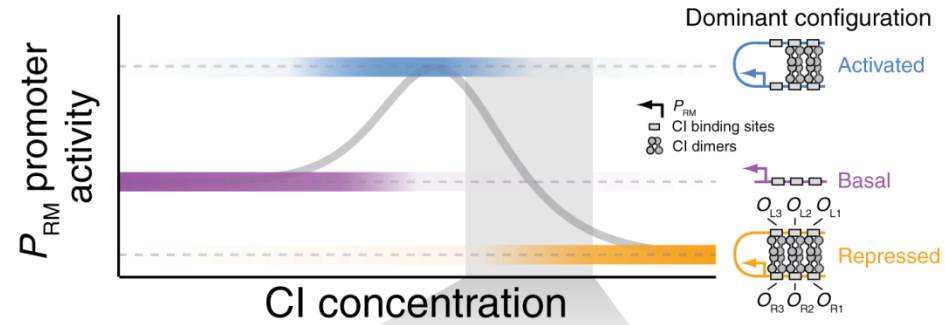
Slow switching



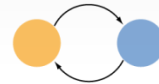
Fast switching



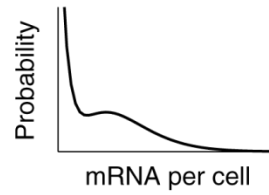
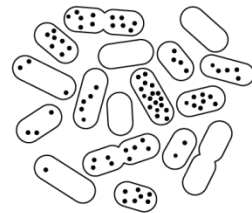
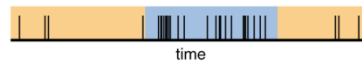




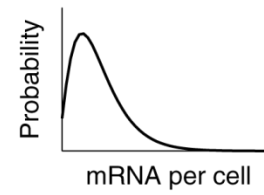
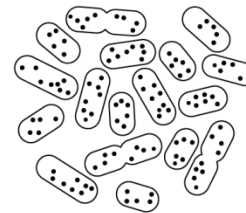
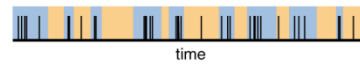
Lysogenic state

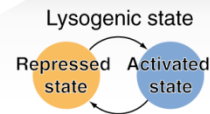
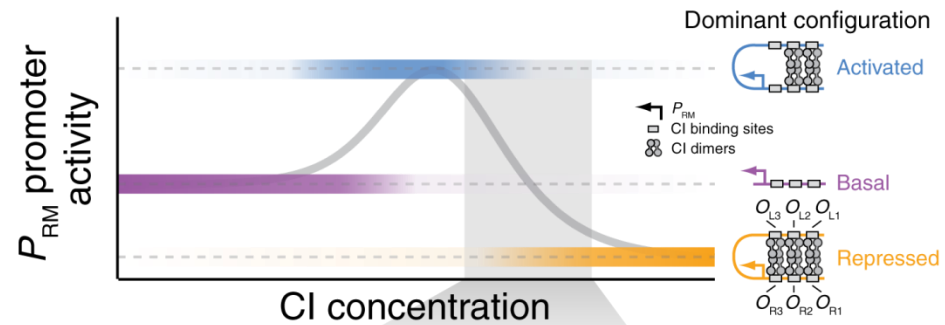


Slow switching



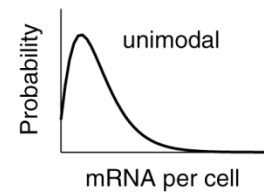
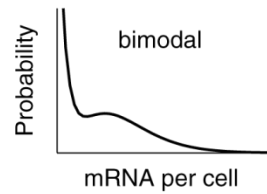
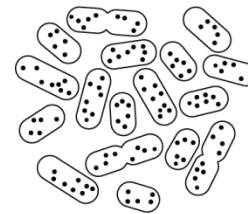
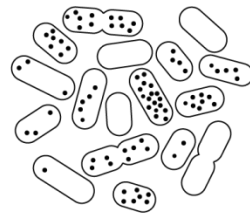
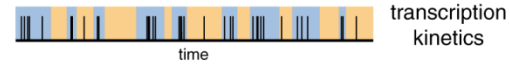
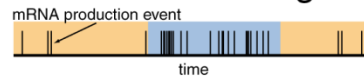
Fast switching



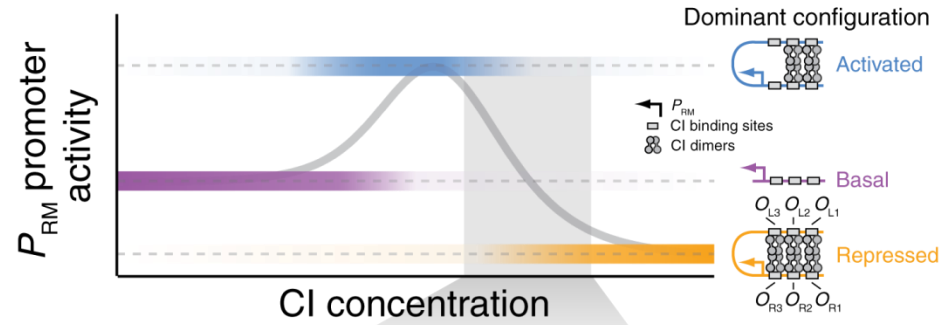


Slow switching

Fast switching

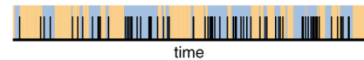
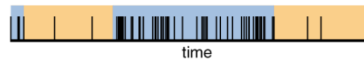


mRNA distributions

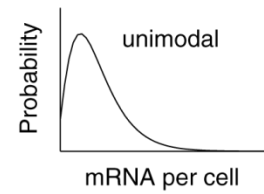
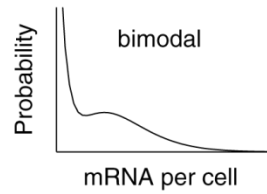
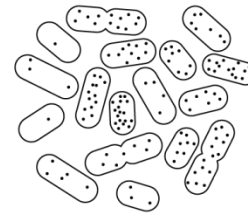
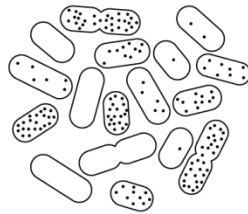


Slow switching

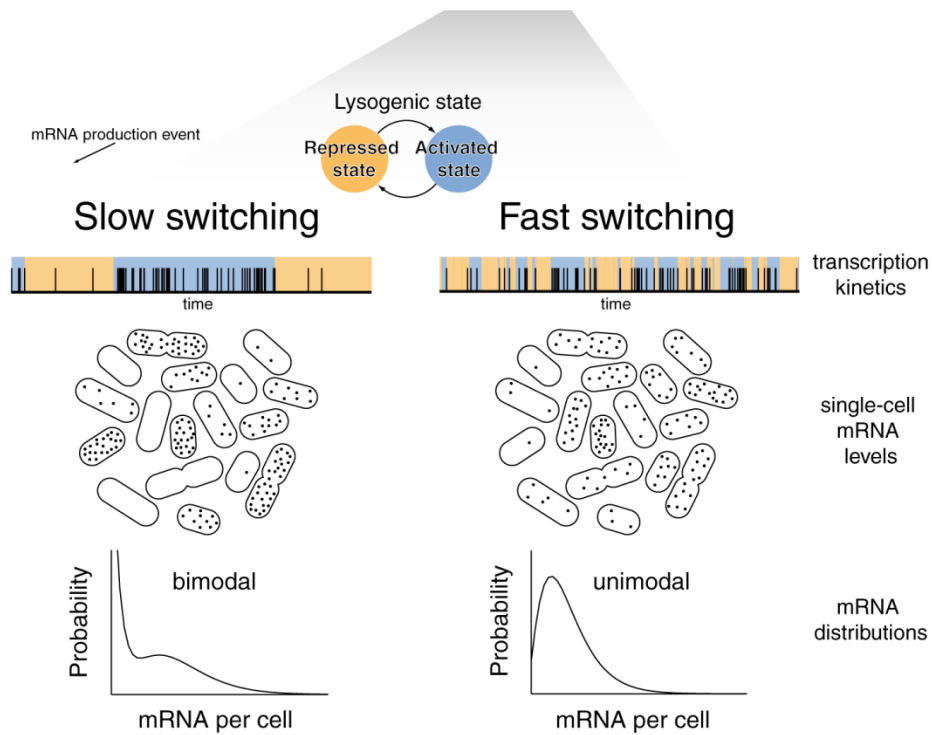
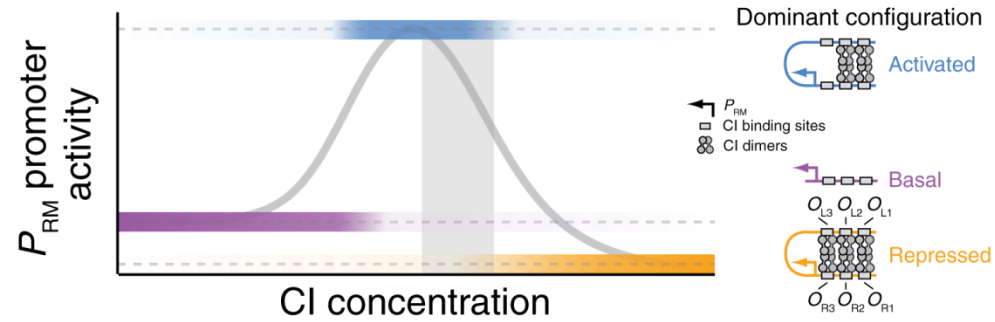
Fast switching

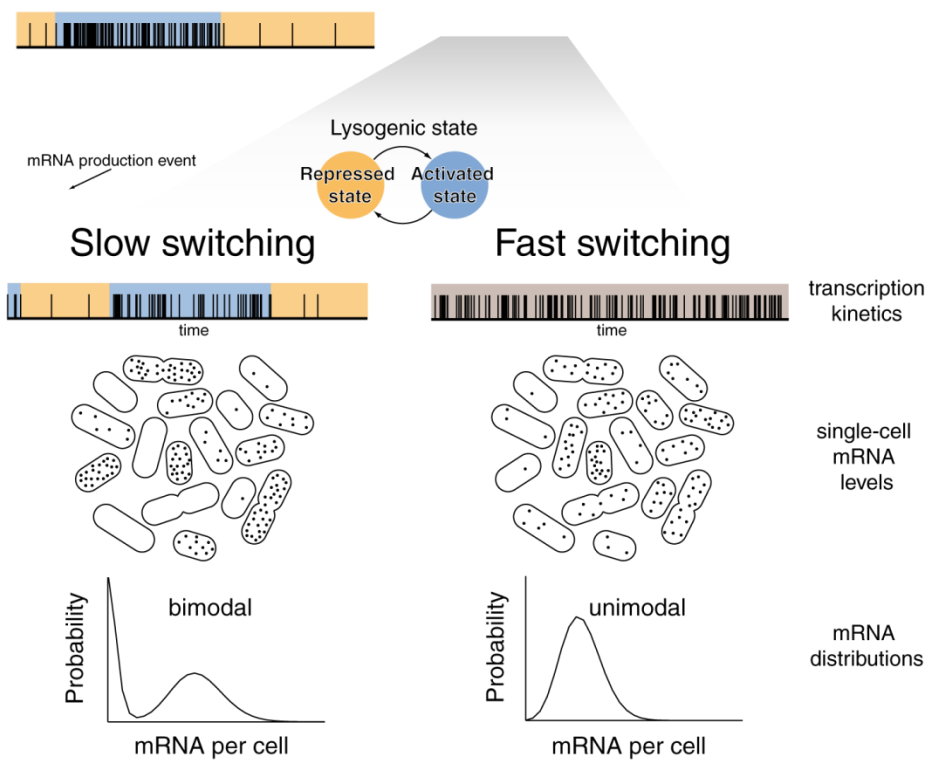
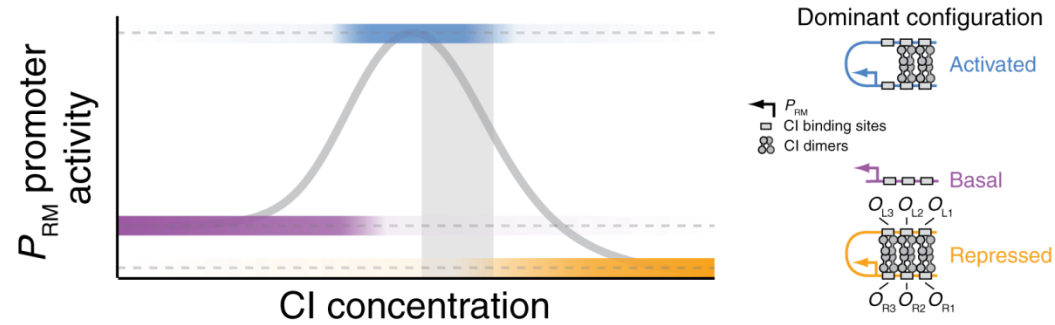


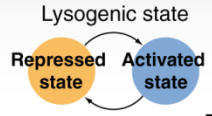
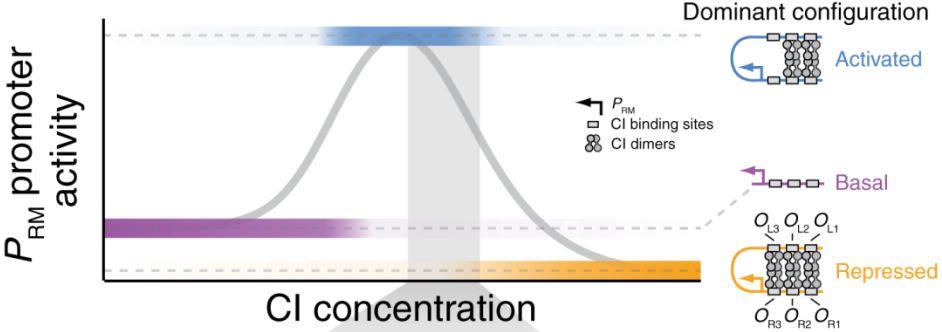
transcription kinetics



mRNA distributions

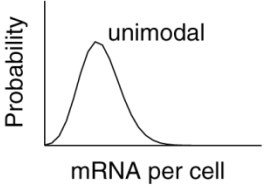
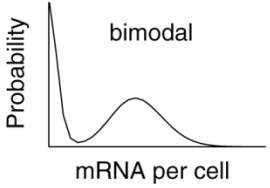




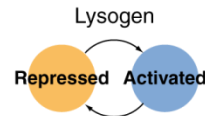
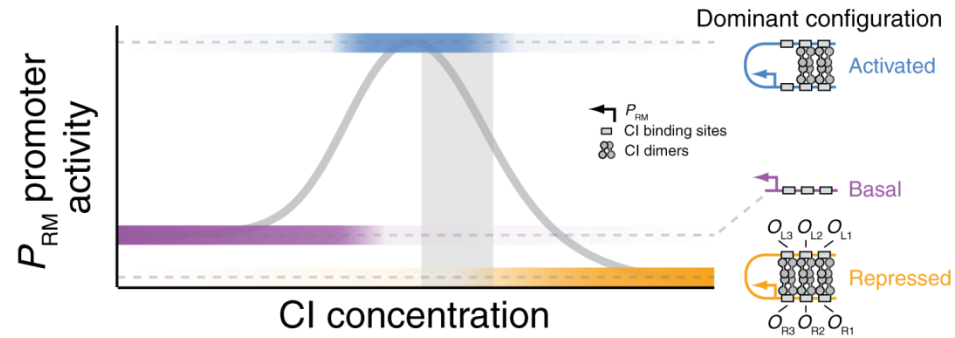


Slow switching

Fast switching



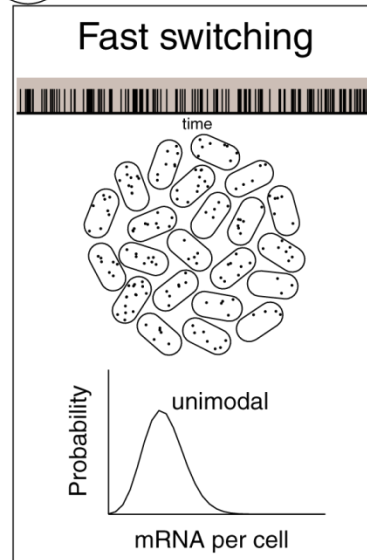
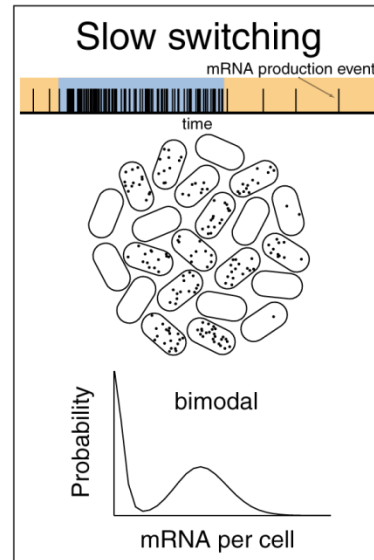
mRNA distributions

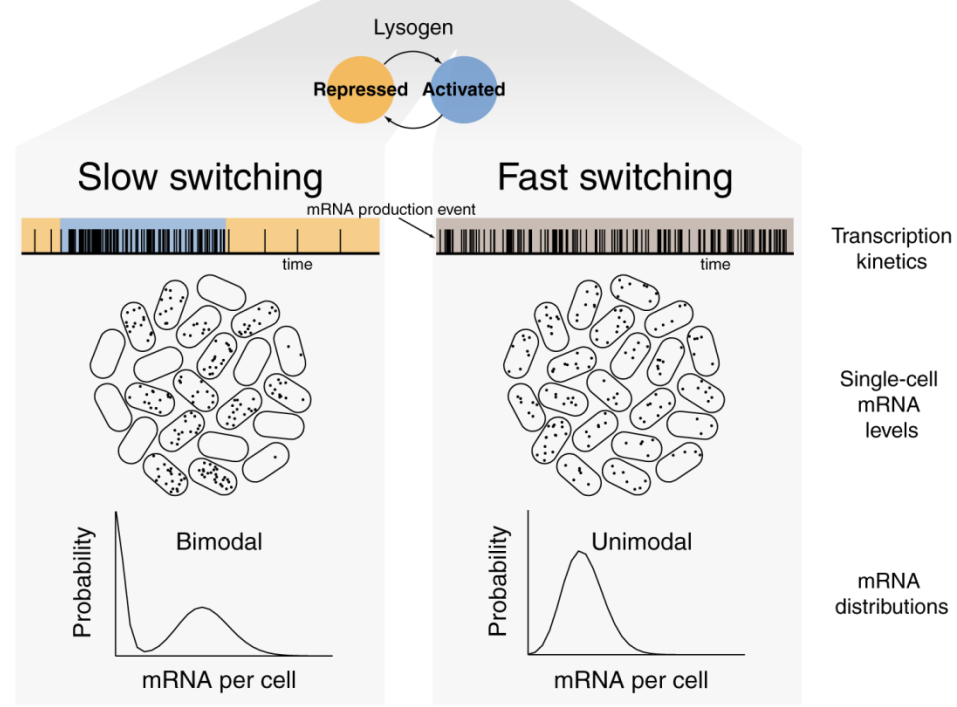
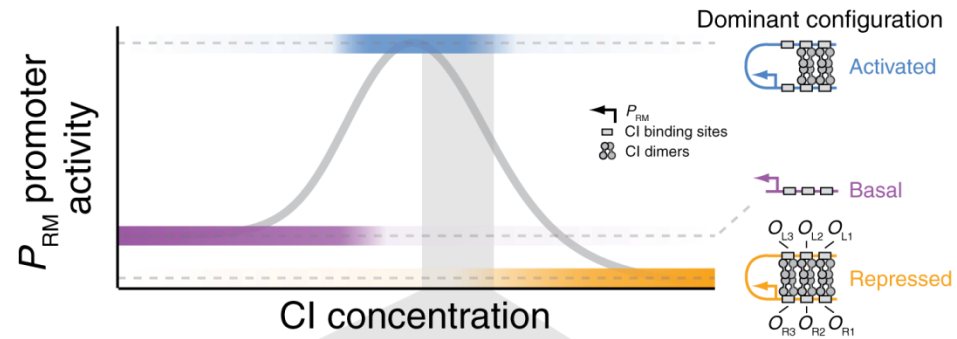


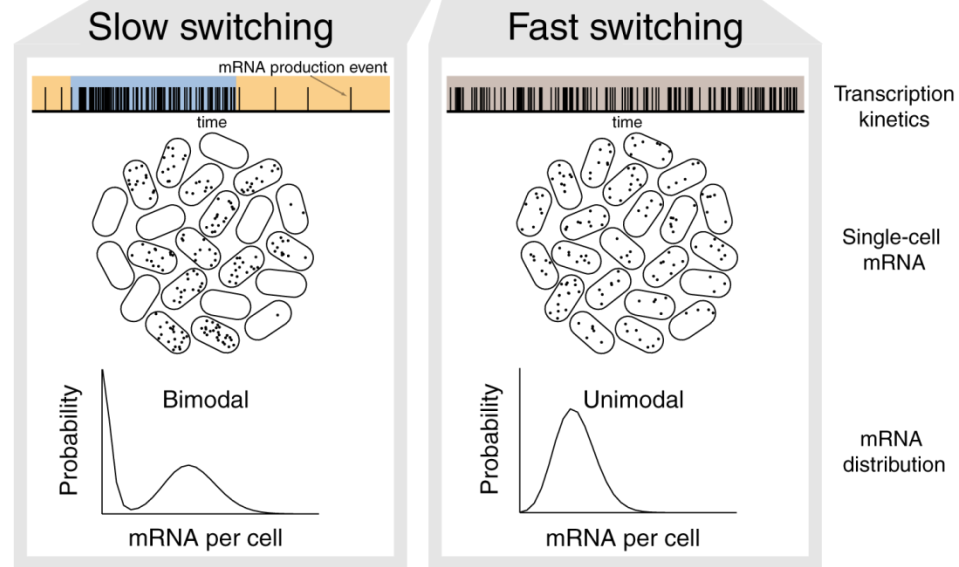
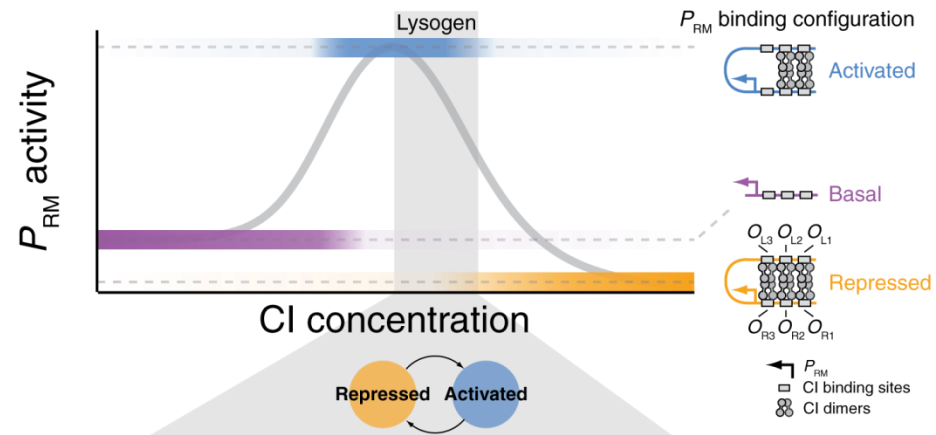
transcription kinetics

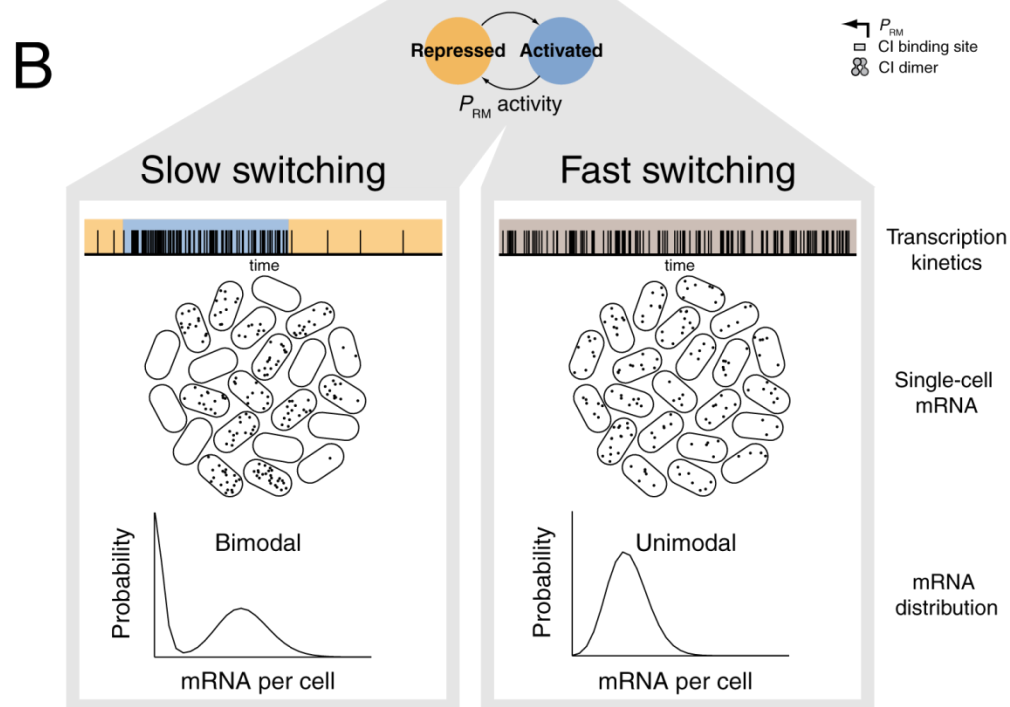
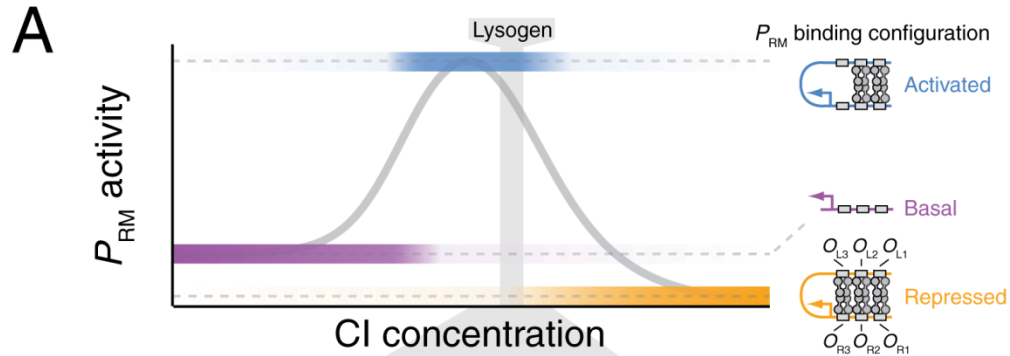
single-cell mRNA levels

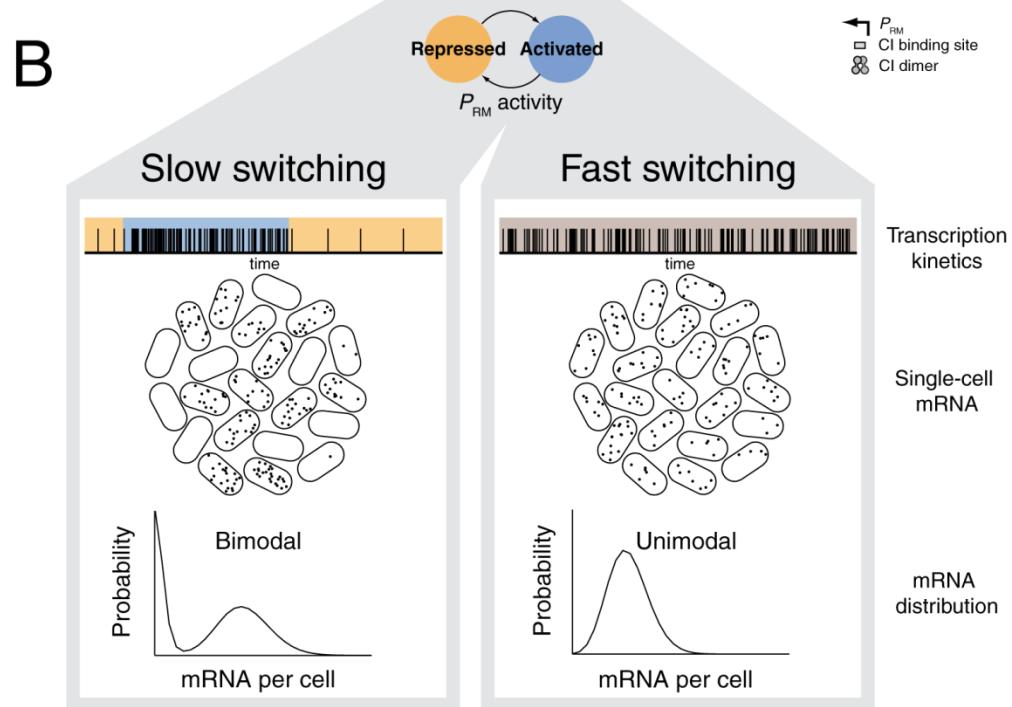
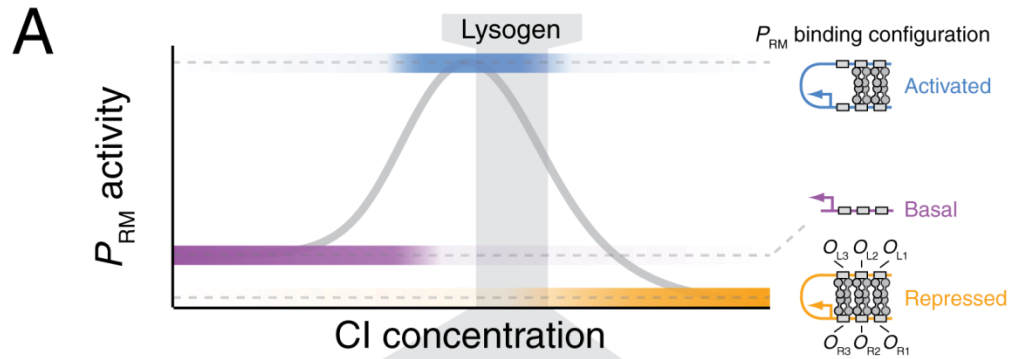
mRNA distributions

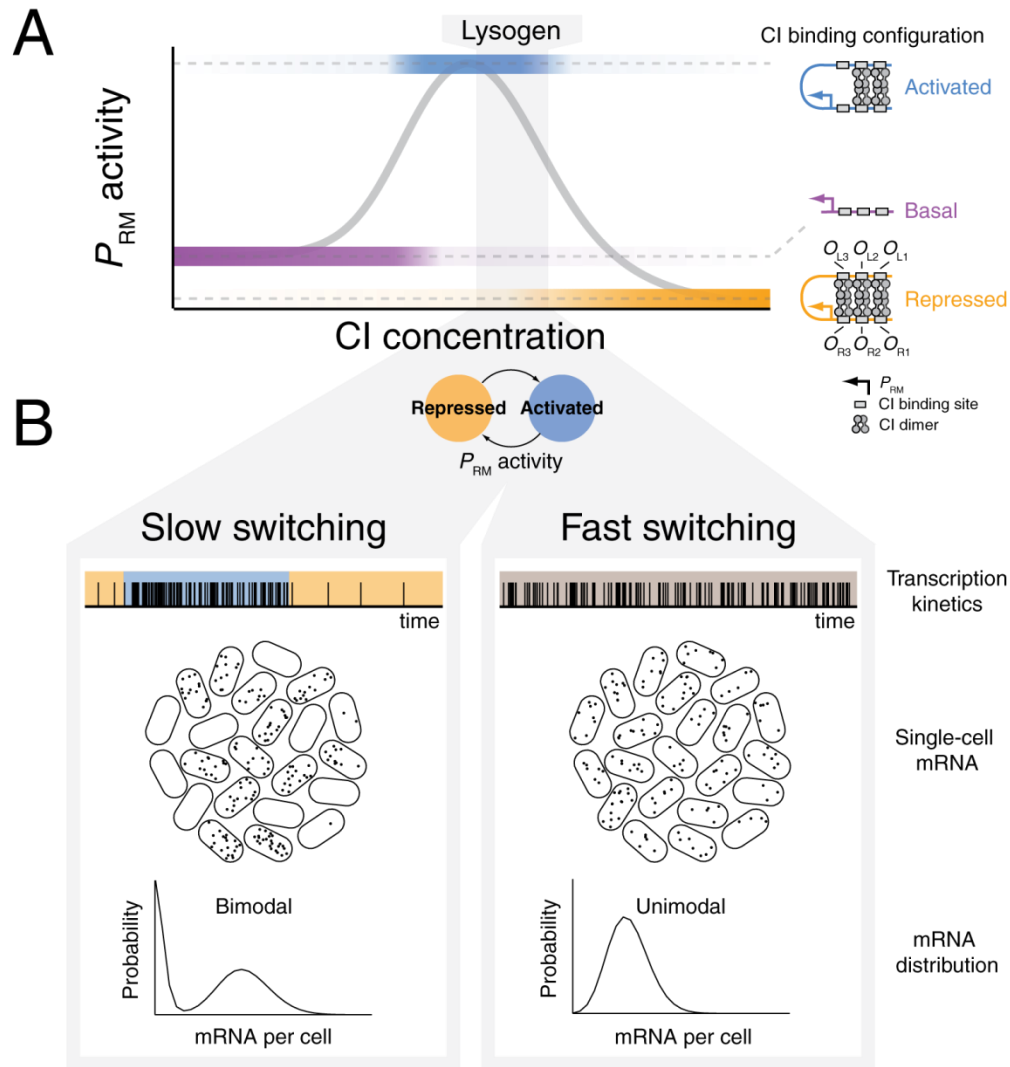


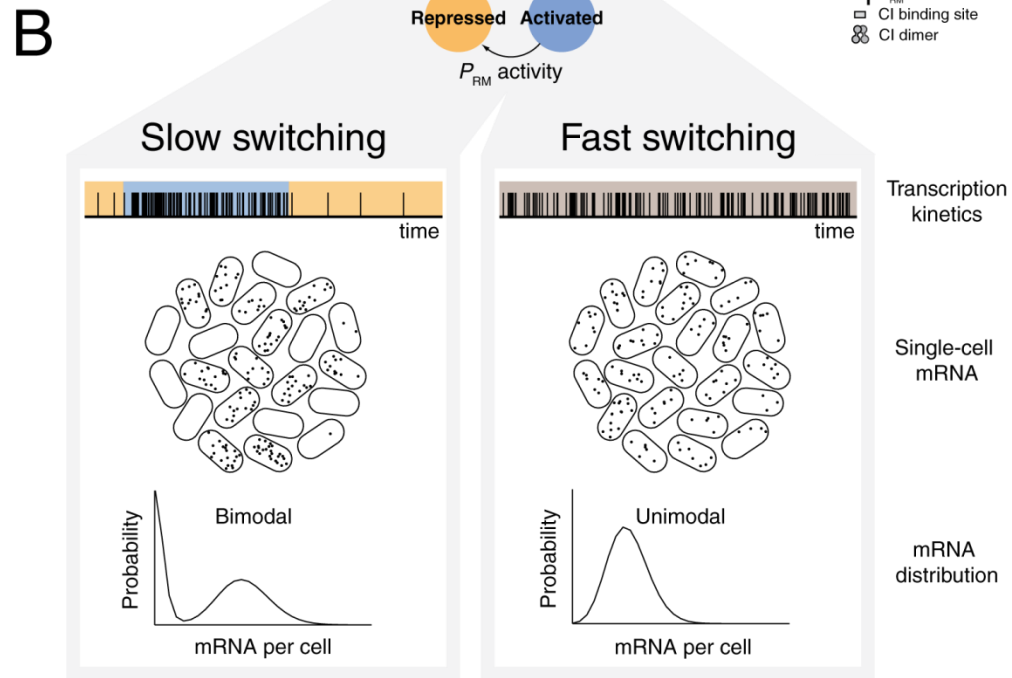
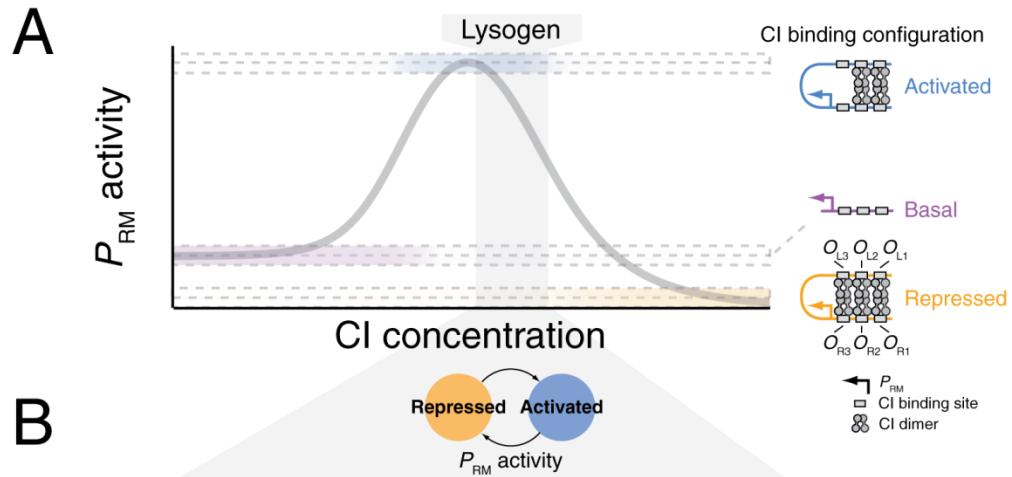


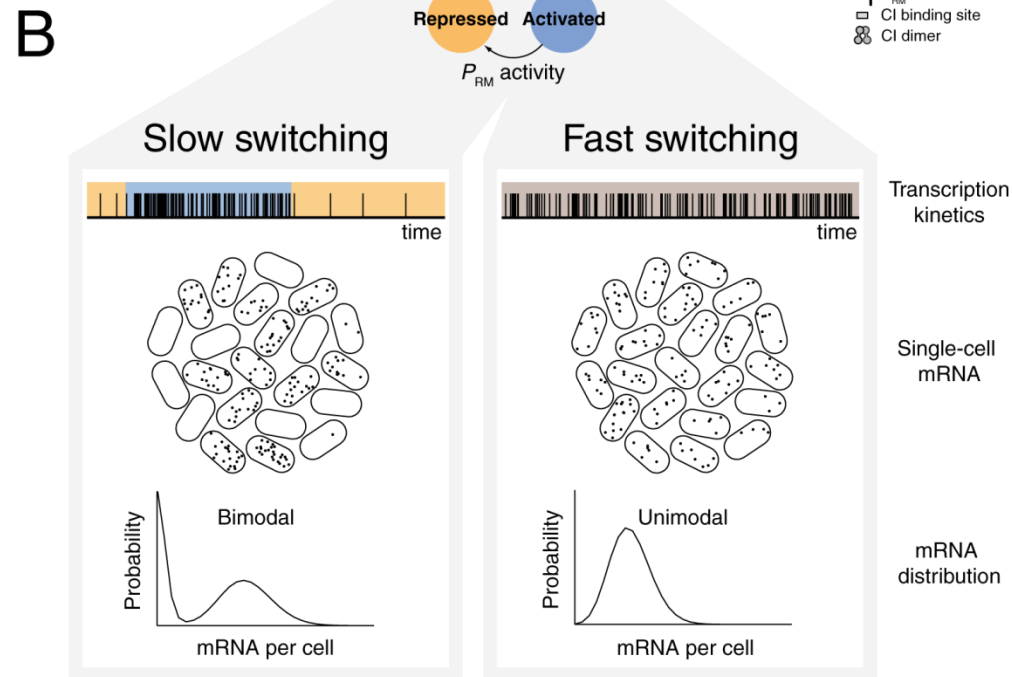
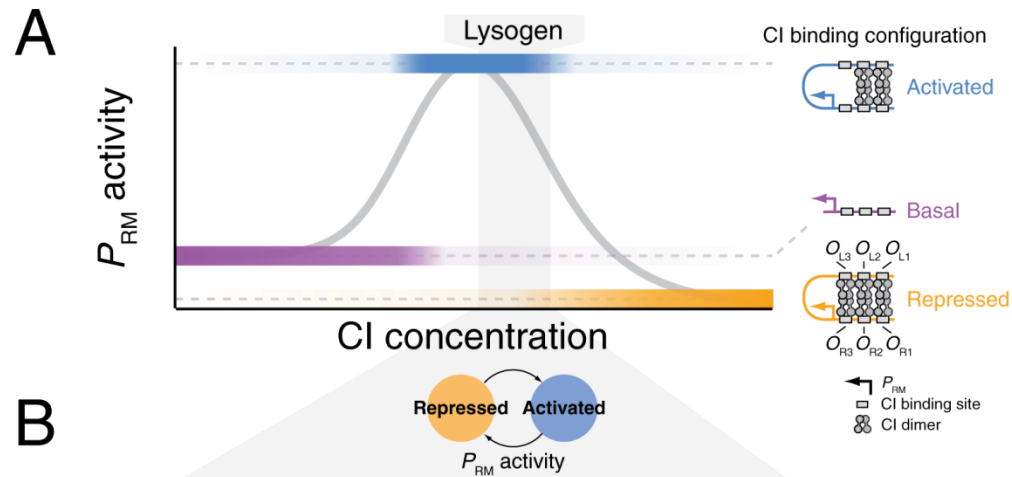


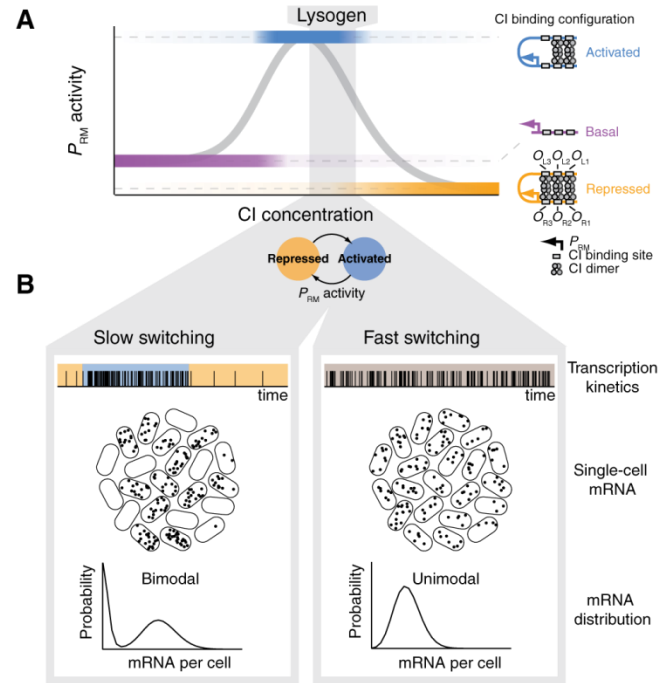


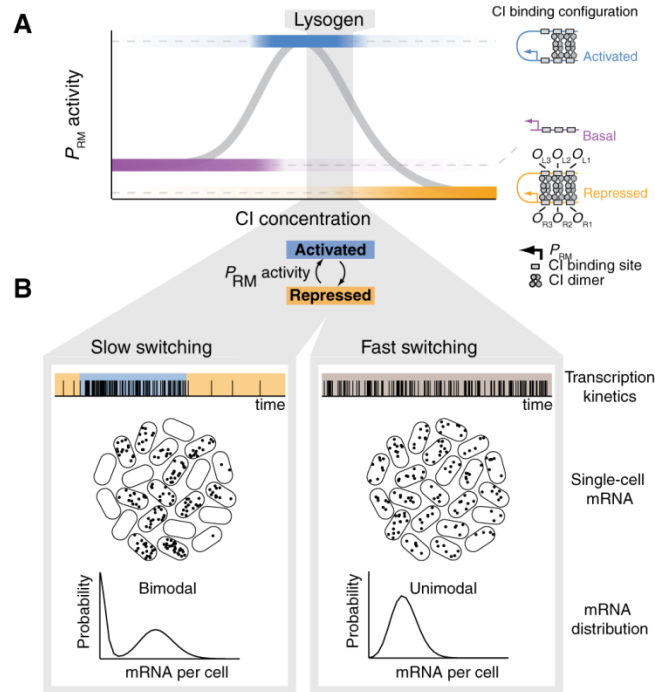


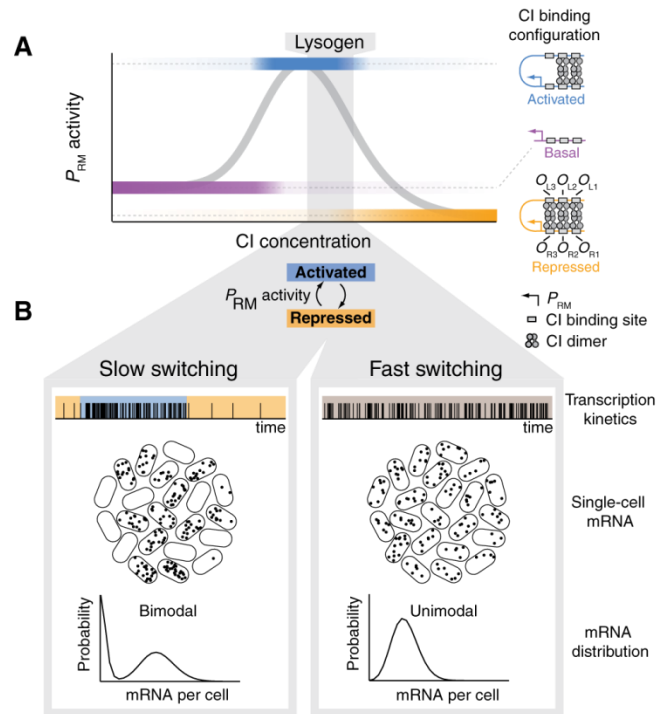


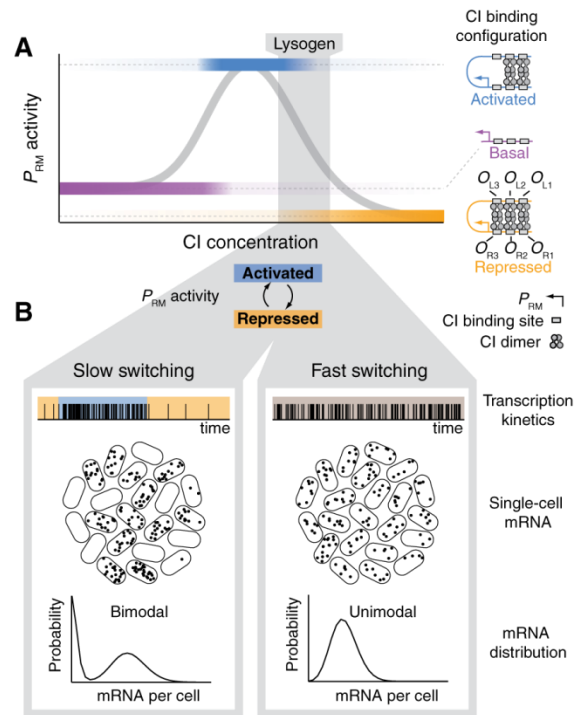












PUBLISHED

Measurement of gene regulation in individual cells reveals rapid switching between promoter states.
 Sepúlveda L.A., Xu H., Zhang J., Wang M., Golding I. *Science*, 351(6278):1218-22