

#### Academic Articles (original research)

1. Biddle B\*, Martinez-Corral R\*, Wong F, Gunawardena J. 2021. *Allosteric conformational ensembles have unlimited capacity for integrating information*. **eLife**,10, e65498. [DOI: 10.7554/eLife.65498](https://doi.org/10.7554/eLife.65498)
2. Martinez-Corral R\*, Park M\*, Biette K\*, Friedrich D, Scholes C, Khalil A S, Gunawardena J, DePace A H. 2020. *Transcriptional kinetic synergy: a complex landscape revealed by integrating modelling and synthetic biology*. bioRxiv 2020.08.31.276261 (now accepted at **Cell Systems**) [DOI:10.1101/2020.08.31.276261](https://doi.org/10.1101/2020.08.31.276261).
3. Martinez-Corral R, Liu J, Prindle A, Süel G M, Garcia-Ojalvo J. 2019. *Metabolic basis of brain-like electrical signalling in bacterial communities*. **Philosophical Transactions of the Royal Society B**. 374(1774):20180382. [DOI: 10.1098/rstb.2018.0382](https://doi.org/10.1098/rstb.2018.0382).
4. Martinez-Corral R, Raimundez E, Lin Y, Elowitz M B, Garcia-Ojalvo J. 2018. *Self-amplifying pulsatile protein dynamics without positive feedback*. **Cell Systems**. 453-462.e1. [DOI:10.1016/j.cels.2018.08.012](https://doi.org/10.1016/j.cels.2018.08.012).
5. Martinez-Corral R, Liu J, Süel G M, Garcia-Ojalvo J. 2018. *Bistable emergence of oscillations in growing Bacillus subtilis biofilms*. **PNAS**.115(36):E8333-E8340.[DOI:10.1073/pnas.1805004115](https://doi.org/10.1073/pnas.1805004115).
6. Guisoni N\*, Martinez-Corral R\*, Garcia-Ojalvo J, de Navascues J. 2017. *Diversity of fate outcomes in cell pairs under lateral inhibition*. **Development**. 144(7):1177-1186. [DOI:10.1242/dev.137950](https://doi.org/10.1242/dev.137950).
7. Liu J, Martinez-Corral R\*, Prindle A\*, Lee D Y D, Larkin J, Gabalda-Sagarra M, Garcia-Ojalvo J, Süel G M. 2017. *Coupling between distant biofilms and emergence of nutrient time-sharing*. **Science**. 356(6338):638-642. [DOI:10.1126/science.aah4204](https://doi.org/10.1126/science.aah4204).

#### Academic Articles (review)

8. Nam K-M\*, Martinez-Corral R\*, Gunawardena R. *The linear framework: using graph theory to reveal the algebra and thermodynamics of biomolecular systems*. **Interface Focus**, 2022. 12:20220013. [DOI:10.1098/rsfs.2022.0013](https://doi.org/10.1098/rsfs.2022.0013).
9. Martinez-Corral R, Garcia-Ojalvo J. 2017. *Modeling cellular regulation by pulsatile inputs*. **Current Opinion in Systems Biology**. 3; 23-29. [DOI: 10.1016/j.coisb.2017.03.003](https://doi.org/10.1016/j.coisb.2017.03.003).