## Ruben Perez-Carrasco

## List of Publications by Year

 in descending orderSource: https:|/exaly.com/author-pdf/166814/publications.pdf
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26
papers

Species-specific pace of development is associated with differences in protein stability. Science, 2020,
$369,$.

Combining a Toggle Switch and a Repressilator within the AC-DC Circuit Generates Distinct Dynamical Behaviors. Cell Systems, 2018, 6, 521-530.e3.

Catch bond drives stator mechanosensitivity in the bacterial flagellar motor. Proceedings of the
National Academy of Sciences of the United States of America, 2017, 114, 12952-12957.
7.1

A theoretical framework for the regulation of Shh morphogen-controlled gene expression.
Development (Cambridge), 2014, 141, 3868-3878.

A Statistical Approach Reveals Designs for the Most Robust Stochastic Gene Oscillators. ACS
Synthetic Biology, 2016, 5, 459-470.
$3.8 \quad 61$

Exact solution of stochastic gene expression models with bursting, cell cycle and replication dynamics. Physical Review E, 2020, 101, 032403.

Intrinsic Noise Profoundly Alters the Dynamics and Steady State of Morphogen-Controlled Bistable
Intrinsic Noise Profoundly Alters the Dynamics and Steady State of Mo
Genetic Switches. PLoS Computational Biology, 2016, 12, el005154.
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Journal of the Royal Society Interface, 2020, 17, 20200360.

Controlling spatiotemporal pattern formation in a concentration gradient with a synthetic toggle
switch. Molecular Systems Biology, 2020, 16, e9361.

Precision of tissue patterning is controlled by dynamical properties of gene regulatory networks.
Development (Cambridge), 2021, 148, .

A multiscale model of epigenetic heterogeneity-driven cell fate decision-making. PLoS Computational
Biology, 2019, 15, e1006592.

Memory functions reveal structural properties of gene regulatory networks. PLoS Computational Biology, 2018, 14, e1006003.

Neuronal differentiation influences progenitor arrangement in the vertebrate neuroepithelium.
Development (Cambridge), 2019, 146, .

Minimum Action Path Theory Reveals the Details of Stochastic Transitions Out of Oscillatory States.
Physical Review Letters, 2018, 120, 128102.

Degradation rate uniformity determines success of oscillations in repressive feedback regulatory networks. Journal of the Royal Society Interface, 2018, 15, 20180157.

16 Theoretical Analysis of the F1-ATPase Experimental Data. Biophysical Journal, 2010, 98, 2591-2600.
0.5

12
â $€^{\sim}$ Neighbourhood watchâ $€^{\text {TM }}$ model: embryonic epiblast cells assess positional information in relation to
their neighbours. Development (Cambridge), 2022, 149, .

Relaxation time asymmetry in stator dynamics of the bacterial flagellar motor. Science Advances, 2022, 8, eabl8112.

