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(*Shared first authorship)

58) Begoña Carrasco, Ester Serrano, Alejandro Martín-González, Fernando Moreno-Herrero and Juan C. Alonso.

Frontiers in Microbiology (2019) Published: (Accepted). doi: 10.3389/fmicb.2019.00237
Bacillus subtilis MutS modulates RecA-mediated DNA strand exchange between divergent DNA sequences

57) A. Marin-Gonzalez*, J.G. Vilhena*, F. Moreno-Herrero† and R. Perez†

Physical Review Letters (2019) Published: (Accepted).

DNA crookedness regulates DNA mechanical properties at short length scales

56) Wilkinson OJ, Martín-González A, Kang H, Northall SJ, Wigley DB, Moreno-Herrero F, Dillingham MS et al. **Elife** (2019) Published: 2 January ;8. pii: e42129. doi: 10.7554/eLife.42129.

CtIP forms a tetrameric dumbbell-shaped particle which bridges complex DNA end structures for double-strand break repair.

55) Ares P, Gomez-Herrero J, Moreno-Herrero F.

High-Resolution Atomic Force Microscopy Imaging of Nucleic Acids. In: Lyubchenko Y. (eds) Nanoscale Imaging. **Methods in Molecular Biology**, vol 1814. Humana Press, New York, NY. Published: 29 June 2018 Pags:3-17. doi: 10.1007/978-1-4939-8591-3_1

High-Resolution Atomic Force Microscopy Imaging of Nucleic Acids.

54) Barbara Martin-Garcia*, Alejandro Martin-Gonzalez* et al. **Nucleic Acids Research** (2018). Published: 14 May 2018. doi: 10.1093/nar/gky370

The TubR-centromere complex adopts a double-ring segrosome structure in Type III partition systems

53) Arroyo et al. **Journal of Molecular Biology** (2018). Volume 430, Issue 10, 11 May 2018, Pages 1495-1509. Available online 4 April 2018.

<https://doi.org/10.1016/j.jmb.2018.03.027>

Supramolecular assembly of human pulmonary surfactant protein SP-D

52) Madariaga-Marcos et al. **Nanoscale** Mar 1;10(9):4579-4590 (2018). doi: 10.1039/c7nr07344e.

Force determination in lateral magnetic tweezers combined with TIRF microscopy

51) Vilhena JG et al. **Journal of Physical Chemistry B** Jan 18; 122(2):840-846 (2018). doi:10.1021/acs.jpcc.7b06952. [Epub 2017 Oct 10].

Stick-Slip Motion of ssDNA Over Graphene

50) Gemma LM Fisher*, César L Pastrana*, Victoria A Higman* et al. **eLife** Dec 15;6 (2017) pii: e28086. doi: 10.7554/eLife.28086.

The structural basis for dynamic DNA binding and bridging interactions which condense the bacterial centromere

- 49) Marín-González*, Vilhena*, Perez and Moreno-Herrero. **Proceedings of the National Academy of Sciences USA** 114(27), 7049-7054 (2017). doi: 10.1073/pnas.1705642114
Double stranded DNA and RNA under constant stretching forces: atomistic insights from microsecond-long molecular dynamics
- 48) Fuentes-Pérez ME et al. **Scientific Reports** Feb 23; 7:43342. doi: 10.1038/srep43342 (2017).
TubZ filament assembly dynamics requires the flexible C-terminal tail
- 47) Pastrana*, Carrasco* et al. **Nucleic Acids Research** 44(18), 8885-8896 Published Online Aug3 (2016).
Force and twist dependence of RepC nicking activity on torsionally-constrained DNA molecule
- 46) Ares et al. **Nanoscale** 8,11818-11826 (2016). (cover article)
High resolution atomic force microscopy of double-stranded RNA
- 45) Gilhooly et al. **Nucleic Acids Research** 44(6), 2727-2741 Published Online Jan 13 (2016).

Chi hotspots trigger a conformational change in the helicase-like domain of AddAB to activate homologous recombination

44) Gollnick et al. **Small** 11(11), 1273-1284 (2015) in press 14 NOV 2014, DOI: 10.1002/sml.201402686. (cover article)

Probing DNA Helicase Kinetics with Temperature-Controlled Magnetic Tweezers

43) Taylor*, Pastrana* et al. **Nucleic Acids Research** 43(2) 719-731 (2015) in press 8 JAN 2015, DOI: 10.1093/nar/gku1295.

Specific and non-specific interactions of ParB with DNA: implications for chromosome segregation

42) Torreira et al. **Structure** 23(1), 183-189, 6 JAN 2015.

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41) Wegrzyn et al. **Nucleic Acids Research** 16 MAY 2014, 42(12), 7807-7818, DOI: 10.1093/nar/gku453.

Sequence-specific interactions of Rep proteins with ssDNA in the AT-rich region of the plasmid replication origin

40) Carrasco et al. **DNA repair** 20, 119-129 (2014) DOI: 10.1016/j.dnarep.2014.02.002. (cover article)

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37) S. Hernández-Ainsa et al. **ACSnano** 7 (7), 6024-6031 (2013).

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- 28) S. Hormeno et al. **Biophysical Journal** 100(8), 1996-2005 (2011).
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The interaction between Vaccinia topoisomerase IB and DNA studied with the atomic force microscope
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Single-molecule measurements of the persistence length of double-stranded RNA
- 18) J.A. Abels et al. **Biophysical Journal** 88(4), 2737-2744 (2005).
Single molecule measurements of the persistence length of double-stranded RNA
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