Nucleosome dynamics resolved with single-pair fluorescence resonance energy transfer spectroscopy

Koopmans, W.J.A.

List of Publications

1. D. Stein, F. H. J. van der Heyden, W. J. A. Koopmans, and C. Dekker, Pressure-driven transport of confined DNA polymers in fluidic channels. *Proceedings of the National Academy of Sciences of the USA* **103**, 15853-15858 (2006)

2. W. J. A. Koopmans, A. Brehm, C. Logie, T. Schmidt, and J. van Noort, Single-pair FRET microscopy reveals mononucleosome dynamics. *Journal of Fluorescence* **17**, 785-795 (2007)

3. W. J. A. Koopmans, T. Schmidt, and J. van Noort, Nucleosome immobilization strategies for single-pair FRET microscopy. *ChemPhysChem* **9**, 2002-2008 (2008)

4. W. J. A. Koopmans, R. Buning, T. Schmidt, and J. van Noort, spFRET using alternating excitation and FCS reveals progressive DNA unwrapping in nucleosomes. *Biophysical Journal* **97**, (2009)

5. W. J. A. Koopmans, R. Buning, J. van Noort, Engineering mononucleosomes for single-pair FRET experiments. to appear as a chapter in *Methods in Molecular Biology: Protocols in DNA Nanotechnology* (ed. G. Zuccheri & B. Samori), Humana Press (2009)

6. M. J. M. Schaaf, W. J. A. Koopmans, T. Meckel, J. van Noort, E. Snaar-Jagalska, T. Schmidt and H. P. Spaink, Single-molecule microscopy in living zebrafish embryos. *Biophysical Journal* (2009), accepted for publication

7. D. Stein, Z. Deurvorst, F. H. J. van der Heyden, W. J. A. Koopmans, and C. Dekker, Electrokinetic DNA concentration in nanofluidic channels. under revision