

Publication List

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- 1) Cordes, A., H. Witt, A. Gallemí-Pérez, B. Brückner, F. Grimm, M. Vache, T. Oswald, J. Bodenschatz, D. Flormann, F. Lautenschläger, Tarantola, M. Janshoff, A. "Pre-stress and area-compressibility of actin cortices determine the viscoelastic response of living cells", **Phys. Rev. Lett.**, **125**(6): p. 068101. (2020)
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- 3) Stankevicius, L., N. Ecker, E. Terriac, P. Maiuri, R. Schoppmeyer, P. Vargas, A. M. Lennon-Dumenil, M. Piel, B. Qu, M. Hoth, K. Kruse and F. Lautenschläger. "Deterministic actin waves as generators of cell polarization cues". **Proc Natl Acad Sci U S A** 2020. **117**(2): p. 826-835. (2020)
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- 8) Terriac E, G. Coceano, Z. Mavajian, T. A. G. Hageman, A. F. Christ, I. Testa, F. Lautenschläger\*, A. K. B. Gad \* (2017) Vimentin Levels and Serine 71 Phosphorylation in the Control of Cell-Matrix Adhesions, Migration Speed, and Shape of Transformed Human Fibroblasts. **Cells**, **6** (1).
- 9) Danielczok J.D., E. Terriac, L. Hertz, P. Petkova-Kirova, F. Lautenschläger, M. W. Laschke, L. Kaestner "Red blood cell passage of small capillaries is associated with transient Ca<sup>2+</sup>-mediated adaptations" **Frontiers in Physiology** **8**:979 (2017)
- 10) M. Raab, M. Gentili, H. de Belly, H.R. Thiam, P. Vargas, A.J. Jimenez, F. Lautenschläger, A.M. Lennon Duménil, N. Manel, M. Piel "Lamin A/C and ESCRT III promote the survival of migrating cells by ensuring nuclear envelope integrity and preventing DNA damage." **Science** **352**(6283): 359-362. (2016)
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  - 21) J. Mauritz, T. Tiffert, R. Seears, M. Ziemieniczuk, F. Lautenschläger, A. Esposito, V. Lew, J. Guck, C. Kaminski. "Detection of 'plasmodium falciparum' infected red blood cells by optical stretching." **Journal of Biomedical Optics** (15): 030517. (2010)
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  - 23) J. Guck, F. Lautenschläger, S. Paschke, M. Beil. "Critical review: Cellular mechanobiology and amoeboid migration." **Integrative Biology**. 99 (8): 2479-2487 (2010)
  - 24) G. Whyte , F. Lautenschläger, M. Kreysing, L. Boyde, A. Ekpenyong, U. Delabre, K. Chalut, K. Franze, J. Guck. "Dual-beam laser traps in biology and medicine: when one beam is not enough." Proceedings of the **SPIE**, Volume 7762, pp. 77620G-77620G. (2010)
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- 29) Stankevicius, L. D. C., M. Urbanska, D. A. Flormann, E. Terriac, Z. Mostajeran, A. K. B. Gad, F. Cheng, J. E. Eriksson and F. Lautenschläger. "Vimentin provides the mechanical resilience required for amoeboid migration and protection of the nucleus." *bioRxiv*: 720946. (2019)

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