

## **Publications**

Renkawitz J\*, Kopf A, Stopp J, de Vries I, Driscoll MK, Merrin J, Hauschild R, Welf ES, Danuser G, Fiolka R, Sixt S\*. (2019) Nuclear positioning facilitates amoeboid migration along the path of least resistance. **Nature**, 568(7753), 546–550. (*highlighted in Nature Video; recommended in F1000*) (\*corresponding authors)

Kopf A, Renkawitz J, Hauschild R, Girkontaite I, Tedford K, Merrin J, Thorn-Seshold O, Trauner D, Häcker H, Fischer KD, Kiermaier E, Sixt M. Microtubules control cellular shape and coherence in amoeboid migrating cells. **bioRxiv** 609420; doi: <https://doi.org/10.1101/609420>

Mogessie B\*, Zenner H\*, Renkawitz J\*. (2019) Meeting report – Cell dynamics: organelle-cytoskeleton interface. **Journal of Cell Science**, 132(16) (\*corresponding authors)

Hons M, Kopf A, Hauschild R, Leithner A, Gaertner F, Abe J, Renkawitz J, Stein JV, Sixt M. (2018) Chemokines and integrins independently tune actin flow and substrate friction during intranodal migration of T cells. **Nature Immunology** 19:606-16. (*highlighted in News & Views 'CCR7 fuels and LFA-1 grips' Nature Immunology 2018; recommended in F1000*).

Leithner A, Renkawitz J, De Vries I, Hauschild R, Häcker H, Sixt M. (2018) Fast and efficient genetic engineering of hematopoietic precursor cells for the study of dendritic cell migration. **European Journal of Immunology**. 48:1074-77.

Renkawitz J, Reversat A, Leithner A, Merrin J, Sixt M. (2018) Micro-engineered 'Pillar Forests' to Study Cell Migration in Complex but Controlled 3D Environments. **Methods in Cell Biology**, 147:79-91.

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Renkawitz J, Sixt M. (2016) A Radical Break: Restraining Neutrophil Migration. **Developmental Cell**. 38:448-50 (Preview).

Renkawitz J\*, Lademann CA\*, Jentsch S. (2014) Mechanisms and principles of homology search during recombination. **Nature Reviews Molecular Cell Biology**. 15:369-83 (*Review*) (\*contributed equally).

Renkawitz J, Lademann CA, Kalocsay M, Jentsch S. (2013) Monitoring homology search during DNA double-strand break repair in vivo. **Molecular Cell**. 50:261-72. (*highlighted in News & Views 'DNA repair: search space' Nat Rev Genet 2013*).

Renkawitz J, Lademann CA, Jentsch S. (2013)  $\gamma$ H2AX spreading linked to homology search. **Cell Cycle**. 12:2526-7 (Preview).

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Renkawitz J, Schumann K, Weber M, Lämmermann T, Pflücke H, Piel M, Polleux J, Spatz JP, Sixt M. (2009) Adaptive force transmission in amoeboid cell migration. **Nature Cell Biology**. 11:1438-43. (*highlighted in News & Views 'Migration without a clutch' Nat Cell Biol 2009; recommended in F1000*).

Lämmermann T, Renkawitz J, Wu X, Hirsch K, Brakebusch C, Sixt M. (2009) Cdc42-dependent leading edge coordination is essential for interstitial dendritic cell migration. **Blood**. 113:5703-10. (*highlighted in 'Close encounters of the 3D kind' Blood 2009*).

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