

10 selected publications (original publications & reviews)

Kroll, J., Hauschild, R., Stefanowski, K., Hermann, M.D., Merrin, J., Shafeek, L., Müller-Taubenberger, A., and **Renkawitz, J.** (2023). Adaptive Pathfinding by Nucleokinesis during Amoeboid Migration. [bioRxiv](https://doi.org/10.1101/2023.05.19.540965) 10.1101/2023.05.19.540965.

Holtkamp, S.J., Ince, L.M., Barnoud, C., Schmitt, M.T., Sinturel, F., Pilorz, V., Pick, R., Jemelin, S., Mühlstädt, M., Boehncke, W.-H., Weber J., Laubender D., Philippou-Massier J., Chen C.S., Holtermann L., Vestweber D., Sperandio M., Schraml B., Halin C., Dibner C., Oster H., **Renkawitz J.**, Scheiermann C. (2021). Circadian clocks guide dendritic cells into skin lymphatics. [Nature Immunology](https://doi.org/10.1038/s41590-021-00000-0) 1–7.

Kameritsch, P., **Renkawitz, J.** (2020). Principles of Leukocyte Migration Strategies. [Trends in Cell Biology](https://doi.org/10.1016/j.tics.2020.08.001) 30, 818–832.

Renkawitz, J.*, Kopf, A., Stopp, J., Vries, I. de, Driscoll, M.K., Merrin, J., Hauschild, R., Welf, E.S., Danuser, G., Fiolka, R., Sixt, M.*. (2019). Nuclear positioning facilitates amoeboid migration along the path of least resistance. [Nature](https://doi.org/10.1016/j.nature.2019.08.001) 568, 546–550.

Hons, M., Kopf, A., Hauschild, R., Leithner, A., Gaertner, F., Abe, J., **Renkawitz, J.**, Stein, J.V., Sixt, M. (2018). Chemokines and integrins independently tune actin flow and substrate friction during intranodal migration of T cells. [Nature Immunology](https://doi.org/10.1038/s41590-018-0000-0) 19, 606–61.

Lademann, C.A., **Renkawitz, J.**, Pfander, B., and Jentsch, S. (2017). The INO80 Complex Removes H2A.Z to Promote Presynaptic Filament Formation during Homologous Recombination. [Cell Reports](https://doi.org/10.1016/j.celrep.2017.08.001) 19, 1294–1303.

Renkawitz, J., Lademann, C.A., and Jentsch, S. (2014). Mechanisms and principles of homology search during recombination. [Nature Reviews Molecular Cell Biology](https://doi.org/10.1016/j.nrmcb.2014.08.001) 15, 369–383.

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Renkawitz, J., Schumann, K., Weber, M., Lämmermann, T., Pflücke, H., Piel, M., Polleux, J., Spatz, J.P., Sixt, M. (2009). Adaptive force transmission in amoeboid cell migration. [Nature Cell Biology](https://doi.org/10.1016/j.natcb.2009.08.001) 11, 1438–1443.

Original publications & pre-prints

Kroll, J., Hauschild, R., Stefanowski, K., Hermann, M.D., Merrin, J., Shafeek, L., Müller-Taubenberger, A., and **Renkawitz, J.** (2023). Adaptive Pathfinding by Nucleokinesis during Amoeboid Migration. [bioRxiv](https://doi.org/10.1101/2023.05.19.540965) 10.1101/2023.05.19.540965.

Ishikawa-Ankerhold, H., Kroll, J., Heuvel, D. van den, **Renkawitz, J.**, Müller-Taubenberger, A. (2022). Centrosome Positioning in Migrating Dictyostelium Cells. [Cells](https://doi.org/10.1016/j.cel.2022.08.001) 11, 1776.

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Kopf, A., **Renkawitz, J.**, Hauschild, R., Girkontaite, I., Tedford, K., Merrin, J., Thorn-Seshold, O., Trauner, D., Häcker, H., Fischer, K.-D., et al. (2020). Microtubules control cellular shape and coherence in amoeboid migrating cells. *The Journal of Cell Biology* 219

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Reviews

Kameritsch, P., **Renkawitz, J.** (2020). Principles of Leukocyte Migration Strategies. *Trends in Cell Biology* 30, 818–832.

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Guidelines & protocols

Kroll, J., Ruiz-Fernandez, M.J.A., Braun, M.B., Merrin, J., **Renkawitz, J.** (2022). Quantifying the Probing and Selection of Microenvironmental Pores by Motile Immune Cells. Current Protocols 2, e407.

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section lead authors

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Mogessie, B., Zenner, H., **Renkawitz, J.** (2019). Meeting report - Cell dynamics: organelle-cytoskeleton interface. Journal of Cell Science 132, jcs236679.

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