

# Curriculum vitae

## Tessa Schmachtel

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### Academic Qualifications:

- Since 09/2019      **PhD thesis**  
Rieger Lab, Department of Hematology/Oncology,  
Goethe University hospital, Frankfurt am Main.
- 10/2017 – 07/2019      **Master of Science**  
Biology/Biomedicine  
Justus-Liebig University, Giessen  
Master Thesis: “*Effect of ciRNA-mediated sequestration of oncogene miRNAs on growth, migration and invasion of 3D tumor cell culture systems.*”
- 10/2014 – 09/2017      **Bachelor of Science**  
Biology  
Justus-Liebig University, Giessen  
Bachelor Thesis: “*Mutagenesis of the Hepatitis C Virus genome to inhibit the translation activity and analyze effects on RNA genome stability.*”
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### Publications:

- Müller, Simon; Wedler, Alice; Breuer, Janina; Glaß, Markus; Bley, Nadine; Lederer, Marcell; Haase, Jacob; Misiak, Claudia; Fuchs, Tommy; Ottmann, Alina; **Schmachtel, Tessa** et al. (2020): Synthetic circular miR-21 RNA decoys enhance tumor suppressor expression and impair tumor growth in mice. In *NAR Cancer* 2 (3), zcaa014. DOI: 10.1093/narcan/zcaa014.
- Yu, Weijia; **Schmachtel, Tessa**; Fawaz, Malak; Rieger, Michael A. (2022): Isolation of murine bone marrow hematopoietic stem and progenitor cell populations via flow cytometry. In *Methods in cell biology* 171, pp. 173–195. DOI: 10.1016/bs.mcb.2022.04.009.
- Külp, Marius; Larghero, Patrizia; Alten, Julia; Cario, Gunnar; Eckert, Cornelia; Caye-Eude, Aurélie; Cavé, Hélène; **Schmachtel, Tessa** et al. (2023): The EGR3 regulome of infant KMT2A-r acute lymphoblastic leukemia identifies differential expression of B-lineage genes predictive for outcome. In *Leukemia* 37 (6), pp. 1216–1233. DOI: 10.1038/s41375-023-01895-z.
- Yalcin, Burak H.; Macas, Jadranka; Wiercinska, Eliza; Harter, Patrick N.; Fawaz, Malak; **Schmachtel, Tessa** et al. (2023): Wnt/ $\beta$ -Catenin-Signaling Modulates Megakaryopoiesis at the Megakaryocyte-Erythrocyte Progenitor Stage in the Hematopoietic System. In *Cells* 12 (23), p. 2765. DOI: 10.3390/cells12232765.