

HEUER, SOPHIE, MD, NÉE WEIL

GENERAL INFORMATION



Physician Scientist

Postdoctoral Research Fellow & Resident in Neurology
Department of Neurology
University Hospital Heidelberg
Im Neuenheimer Feld 400, 69120 Heidelberg, Germany

A01

ACADEMIC EDUCATION & QUALIFICATION

Year(s)	Education
2011-2018	Medical School at University of Heidelberg, Medical Faculty Mannheim
2018	Elective rotation at MD Anderson Cancer Center, Houston, TX, USA

SCIENTIFIC EDUCATION & QUALIFICATION

Year(s)	Education
2019	MD doctoral thesis in Experimental Neuro Oncology at the German Cancer Research Center (DKFZ) in Heidelberg “Tumor microtubes convey resistance to surgical lesions and chemotherapy in gliomas” Supervisor: Prof. Dr. Frank Winkler

PROFESSIONAL EXPERIENCE

Year(s)	Education
Since 2022	Team leader of the subgroup Tumor Microtubes in the Clinical Cooperation Unit Neurooncology, Experimental Neurooncology, German Cancer Research Center PI: Prof. Dr. Frank Winkler
2020-2022	Postdoctoral research fellow at the German Cancer Research Center, Clinical Cooperation Unit Neurooncology, Experimental Neurooncology PI: Prof. Dr. Frank Winkler
Since 2019	Resident physician at University Hospital Heidelberg, Neurology Clinic Head: Prof. Dr. Wolfgang Wick

OTHER QUALIFICATIONS/ROLES/RESPONSIBILITIES

Year(s)	Qualifications/Roles/Responsibilities
2020-2023	Fellow of the Hertie Network of Excellence in Clinical Neuroscience
2019-2023	Fellow Representative of CRC 1389 UNITE Glioblastoma
2013-2018	Fellow of Konrad-Adenauer-Stiftung e.V.
2014-2015	Fellow of Heinrich F. C. Behr Foundation

SELECTED PUBLICATIONS

1. Heuer, S., Winkler, F. (2023) Glioblastoma revisited: from neuronal-like invasion to pacemaking. **Trends Cancer**. S2405-8033(23)00136-X. doi: 10.1016/j.trecan.2023.07.009. Epub ahead of print. PMID: 37586918.
2. Weil, S., Osswald, M., Solecki, G., Grosch, J., Jung, E., Lemke, D., Ratliff, M., Hanggi, D., Wick, W. und Winkler, F. (2017). Tumor microtubes convey resistance to surgical lesions and chemotherapy in gliomas. **Neuro Oncol**, doi: 10.1093/neuonc/nox070.
3. Hausmann, D., Hoffmann, D. C., Venkataramani, V., Jung, E., Horschitz, S., Tetzlaff, S. K., Jabali, A., Hai, L., Kessler, T., Azorin, D. D., Weil, S., Kourtesakis, A., Sievers, P., Habel, A., Breckwoldt, M. O., Karreman, M. A., Ratliff, M., Messmer, J. M., Yang, Y., Reyhan, E., Wendler, S., Lob, C., Mayer, C., Figarella, K., Osswald M.,

- Solecki, G., Sahm, F., Garaschuk, O., Kuner, T., Koch, P., Schlesner, M., Wick, W. & Winkler, F. (2023) Autonomous rhythmic activity in glioma networks drives brain tumour growth. **Nature**, 613, 179-186.
4. Osswald, M., Jung, E., Sahm, F., Solecki, G., Venkataramani, V., Blaes, J., Weil, S., Horstmann, H., Wiestler, B., Syed, M., Huang, L., Ratliff, M., Karimian Jazi, K., Kurz, F. T., Schmenger, T., Lemke, D., Gommel, M., Pauli, M., Liao, Y., Haring, P., Pusch, S., Herl, V., Steinhauser, C., Krunic, D., Jarahian, M., Miletic, H., Berghoff, A. S., Griesbeck, O., Kalamakis, G., Garaschuk, O., Preusser, M., Weiss, S., Liu, H., Heiland, S., Platten, M., Huber, P. E., Kuner, T., von Deimling, A., Wick, W. und Winkler, F. (2015). Brain tumour cells interconnect to a functional and resistant network. **Nature** 528, 93-98, doi: 10.1038/nature16071.
 5. Jung, E., Osswald, M., Blaes, J., Wiestler, B., Sahm, F., Schmenger, T., Solecki, G., Deumelandt, K., Kurz, F. T., Xie, R., Weil, S., Heil, O., Thome, C., Gommel, M., Syed, M., Haring, P., Huber, P. E., Heiland, S., Platten, M., von Deimling, A., Wick, W. und Winkler, F. (2017). Tweety-homologue 1 drives brain colonization of gliomas. **J Neurosci**, doi: 10.1523/JNEUROSCI.3532-16.2017.
 6. Hai, L., D. C. Hoffmann, H. Mandelbaum, R. Xie, J. Ito, E. Jung, S. Weil, P. Sievers, V. Venkataramani, D. D. Azorin, K. Ernst, D. Reibold, R. Will, M. L. Suvà, C. Herold-Mende, F. Sahm, F. Winkler, M. Schlesner, W. Wick & T. Kessler (2021) A connectivity signature for glioblastoma. **bioRxiv**
 7. Jung, E., M. Osswald, M. Ratliff, H. Dogan, R. Xie, S. Weil, D. C. Hoffmann, F. T. Kurz, T. Kessler, S. Heiland, A. von Deimling, F. Sahm, W. Wick & F. Winkler (2021) Tumor cell plasticity, heterogeneity, and resistance in crucial microenvironmental niches in glioma. **Nat Commun**, 12, 1014.