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Development of new chemical tools to study the cannabinoid receptor type 2

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List of Publications

de Paus, L. V.; An, Y.; Janssen, A. P. A.; van den Berg, R. J. B. H. N.; Heitman, L. H.; van der Stelt, M. Discovery of a Photoaffinity Probe that Captures the Active Conformation of the Cannabinoid CB2 Receptor. *ChemBioChem* 2024. <https://doi.org/10.1002/cbic.202300785>

de Paus, L. V.; Janssen, A. P. A.; Halimi, A.; van den Berg, R. J. B. H. N.; Heitman, L. H.; van der Stelt, M. Discovery of a Cannabinoid CB2 Receptor Fluorescent Probe Based on a Pyridin-2-yl-Benzyl-Imidazolidine-2,4-Dione Scaffold. *Synlett* 2023. <https://doi.org/10.1055/a-2230-1003>.

Li, X.; Chang, H.; Bouma, J.; **de Paus, L. V.;** Mukhopadhyay, P.; Paloczi, J.; Mustafa, M.; van der Horst, C.; Kumar, S. S.; Wu, L.; Yu, Y.; van den Berg, R. J. B. H. N.; Janssen, A. P. A.; Lichtman, A.; Liu, Z.-J.; Pacher, P.; van der Stelt, M.; Heitman, L. H.; Hua, T. Structural Basis of Selective Cannabinoid CB2 Receptor Activation. *Nat. Commun.* 2023, 14 (1), 1447. <https://doi.org/10.1038/s41467-023-37112-9>.

Curriculum Vitae

Laura de Paus obtained her secondary school diploma (gymnasium) at Scala College in Alphen aan den Rijn in 2012. She subsequently joined the Bachelor program for Chemistry at Utrecht University, from which she graduated in 2015. For her masters she moved to Leiden to join the Master program for Chemistry at Leiden University. As part of the master program she performed a 10-month research project at the Biosynthesis department under supervision of Prof. Dr. Mario van der Stelt. The project encompassed designing and synthesizing compounds targeting FLT3 for study of its role in acute myeloid leukaemia. After three years she graduated in 2018 and obtained her Master's degree of Science in Chemistry *cum laude* and her Master's degree of Science in Life, Science and Technology.

In October 2018 she started as a PhD candidate at Leiden University at the Molecular Physiology department under supervision of Prof. Dr. Mario van der Stelt, Prof. Dr. Laura Heitman (Division of Drug Discovery and Safety of the LACDR) and Dr. Richard van den Berg. The research led to the publication of three papers and this thesis.