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## **Investigations on the role of impaired lysosomes of macrophages in disease**

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## List of publications

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2. Tol, M. J., van der Lienden, M. J. C., Gabriel, T. L., Hagen, J. J., Scheij, S., Veenendaal, T., Klumperman, J., Donker-Koopman, W.E., Verhoeven, A.J., Overkleeft H.S., Aerts, J.M.F.G., Argmann, C.A. & van Eijk, M. HEPES activates a MiT/TFE-dependent lysosomal-autophagic gene network in cultured cells: A call for caution. *Autophagy* **14**, 1–13 (2018).
3. Artola, M., Kuo, C.-L., McMahon, S. A., Oehler, V., Hansen, T., van der Lienden, M., He, X., van den Elst, H., Florea, B. I., Kermodé, A. R., van der Marel, G. A., Gloster, T. M., Codée, J. D. C., Overkleeft, H. S. & Aerts, J. M. F. G. New irreversible  $\alpha$ -1-iduronidase inhibitors and activity-based probes. *Chemistry - A European Journal* **24**, 19081–19088 (2018).
4. van der Lienden, M. J. C., Gaspar, P., Boot, R., Aerts, J. M. F. G. & van Eijk, M. Glycoprotein non-metastatic protein B: an emerging biomarker for lysosomal dysfunction in macrophages. *International Journal of Molecular Sciences*, **20**, 66 (2018).
5. van Meel, E., Bos, E., van der Lienden, M. J. C., Overkleeft, H. S., van Kasteren, S. I., Koster, A. J. & Aerts, J. M. F. G. Localization of active endogenous and exogenous  $\beta$ -glucocerebrosidase by correlative light-electron microscopy in human fibroblasts. *Traffic* **20**, 346–356 (2019).
6. Aerts, J. M. F. G., Kuo, C. L., Lelieveld, L. T., Boer, D. E. C., van der Lienden, M. J. C., Overkleeft, H. S. & Artola, M. Glycosphingolipids and lysosomal storage disorders as illustrated by gaucher disease. *Current Opinion in Chemical Biology* **53** 204–215 (2019).

## *Curriculum vitae*

Martijn van der Lienden was born on December 3<sup>rd</sup> 1990 in Gouda, The Netherlands. During his high school years (VWO, Emmouscollege in Rotterdam), he became interested in molecular biology through his specialization in the life sciences. In 2009, he started his bachelor Biomedical Sciences at the Leiden University Medical Centre. As part of an exchange program, he studied human physiology and immunology at Karolinska Instituted in Stockholm in the second year of his BSc. After a minor internship at the department of Rheumatology at the LUMC, he dedicated his bachelor thesis to immunological characteristics of colorectal tumours at the department of Surgery of the LUMC.

Martijn continued at the LUMC with a research-oriented Master study, of which the first year was centred around his internship at the department of Virology in the LUMC. Under supervision of Dr. H. Mikkers, he worked on improving the quality of hematopoietic stem cells with respect to lymphoid differentiation, originating from immunocompromised patient-derived induced pluripotent stem cells. He meanwhile guided a student swimming society in the capacity as secretary of swimming. The second internship during his Master's was performed at the University of Cambridge at the John van Geest Centre for Brain Repair (Addenbrooke's hospital). He conducted molecular studies on the relation between morphological and immunological responses of astrocytes upon neuron damage and in tauopathies under supervision of Dr. A. Lakatos.

After graduation, Martijn initiated his doctoral studies in at Medical Biochemistry in 2015 under supervision of Dr. M. van Eijk and Prof. Dr. J.M.F.G. Aerts. The aim was to study lysosomal function and signalling within the context of disease in cells and within the body. Research covered by this thesis was presented at the ESGLD meetings (2017 in Lyon, France and 2019 in Vic, Spain, oral presentations), the Dutch conference for Diabetes, ADDRm in Oosterbeek, The Netherlands(2018, oral presentation), EMBO Lysosome and Metabolism in Naples, Italy (2018, poster presentation) and the EWGGD in Clermont-Ferrand, France (2019, oral presentation).

Martijn is currently performing postdoctoral research at the Academic Medical Centre in Amsterdam, continuing studies on lipid-laden macrophages in inherited metabolic disorders.

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Martijn

*'My final point concerns the value of serendipity and, especially, of its necessary correlate, the freedom to follow a new trail opened by chance, irrespective of previous commitments. It is noteworthy that in the paper in which lysosomes are first mentioned, the Lilly Research Laboratories are acknowledged for their financial support, despite the fact that their major interest, insulin, is conspicuously absent from the paper. One could only wish that funding agencies might show the same liberal attitude today.'*

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