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## Understanding anthracycline action: molecular insights to improve cancer therapy

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## List of publications

### **Re-Exploring the Anthracycline Chemical Space for Better Anti-Cancer Compounds**

M.A. van Gelder\*, S.Y. van der Zanden\*, M.B.L. Vriends, R.A. Wagenveld, G.A. van der Marel, J.D.C. Codée, H.S. Overkleeft, D.P.A. Wander & J. J.C. Neefjes. *Journal of Medicinal Chemistry*, **2023**, 66.

### **Novel *N,N*-Dimethyl-idarubicin Analogues Are Effective Cytotoxic Agents for ABCB1-Overexpressing, Doxorubicin-Resistant Cells**

M.A. van Gelder, Y. Li, D.P.A. Wander, I. Berlin, H.S. Overkleeft, S.Y. van der Zanden & J.J.C. Neefjes. *Journal of Medicinal Chemistry*, **2024**, 67.

### **Diversifying the anthracycline class of anti-cancer drugs identifies aclarubicin for superior survival of acute myeloid leukemia patients**

X. Qiao, S.Y. van der Zanden, X. Li, M. Tan, Y. Zhang, J.Y. Song, M.A. van Gelder, F.L. Hamoen, L. Janssen, C.L. Zuur, B. Pang, O. van Tellingen, J. Li, J.J.C. Neefjes. *Molecular Cancer*, **2024**, 23.

## Curriculum Vitae

Merle van Gelder completed both her Bachelor's in Neurobiology (2015) and her Master's in Biomedical Sciences (2017) at the University of Amsterdam. In 2020, she started her PhD project in the research group of Sjaak Neefjes at Leiden University Medical Center (LUMC), focusing on anthracycline biology. In 2024, she transitioned from academia to apply her enthusiasm and expertise at a non-profit research foundation.

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*"The more one does and sees and feels, the more one is able to do,  
and the more genuine may be one's appreciation of fundamental things like  
home, and love, and understanding companionship."*

*– Amelia Earhart*





