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Visualization of vitamin A metabolism

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List of Publications

Development of a Retinal-Based Probe for the Profiling of Retinaldehyde Dehydrogenases in Cancer Cells

S.T.A. Koenders, L.S. Wijaya, M.N. Erkelens, A.T. Bakker, V.E. van der Noord, E.J. van Rooden, L. Burggraaff, P.C. Putter, E. Botter, K. Wals, H. van den Elst, H. den Dulk, B.I. Florea, B. van de Water, G.J.P. van Westen, R.E. Mebius, H.S. Overkleeft, S.E. Le Dévédec, M. van der Stelt.

ACS Central Science, **2019**, 5, 1965-1974.

STA-55, An Easily Accessible Broadspectrum Activity-Based Aldehyde Dehydrogenase Probe

S.T.A. Koenders, E.J. van Rooden, H. van den Elst, B.I. Florea, H.S. Overkleeft, M. van der Stelt

ChemBioChem, **2020**, 21, 1911-1917.

Opportunities for Lipid-Based Probes in the Field of Immunology

S.T.A. Koenders, B. Gagestein, M. van der Stelt.

Current Topics in Microbiology and Immunology, **2018**, 420, 283-319.

Curriculum vitae

Sebastiaan Theodorus Antonius Koenders was born on April 23, 1991 in Nijmegen, the Netherlands. He obtained his high school diploma from the Gymnasium Apeldoorn in 2009 and won the national chemistry Olympiad in that same year. Based on his interest in both biology and chemistry he started the bachelor Biopharmaceutical Sciences at Leiden University. He obtained his bachelor's degree in 2013 *cum laude*. During his bachelor he competed in rowing at a national level as a member of the Royal Student Rowing Society Njord. After competing in rowing for three years he was elected as the president of the rowing club, presiding over the 139th board of Njord from September 2012 until August 2013. He continued his academic education in September 2013 with a research master in Chemistry at Leiden University and obtained his master's degree *cum laude* in 2015.

During his master program he did a research internship in the Bio-Organic Synthesis group under supervision of Prof. Dr. G.A. van der Marel and Dr. J.D.C. Codée titled “*Synthesis of glycerolphosphate probes for the characterization of pilin phosphotransferase B*”. This research focused on the synthesis of novel chemical tools based on glycerolphosphate to study the role of pilin phosphotransferase B in the pathogenesis of *Neisseria meningitidis*. His second research internship was performed in the lab of Prof. Dr. H. Waldmann at the Max-Planck Institute of Molecular Physiology in Dortmund supported by an Erasmus grant. The aim of this study was *The development of an asymmetric [4+2] annulation of ketimines and allenates to enable structure-activity relationship studies around the indoloquinolizine scaffold*.

In September 2015 he started his doctoral studies in the Molecular Physiology group under supervision of Prof. Dr. H. S. Overkleeft and Prof. Dr. M. van der Stelt. The research described in **Chapter 5** was performed in collaboration with Dr. S.E. le Dévédec, faculty member of the Leiden Academic Centre for Drug Research, and the work presented in **Chapter 6** was performed in collaboration with Prof. Dr. R. Mebius from the department of Molecular Cell Biology and Immunology at the Amsterdam UMC. The Institute for Chemical Immunology and the Oncode Institute are kindly acknowledged for the funding of this PhD research.

Posters on parts of the research were presented at various national and international conferences: the annual Chemical Immunology Congress (Amsterdam, the Netherlands, 2016, 2017 and 2019); CHAINS (Veldhoven, the Netherlands, 2017 and 2018); and the annual Activity-Based Protein Profiling meeting (Oxford, United Kingdom, 2018). Oral presentations were held at: the annual Chemical Immunology Congress (Amsterdam, the Netherlands, 2018); the EMBO workshop Chemical Biology (Heidelberg, Germany, 2018); the Figon Dutch Medicine Days (Ede, the Netherlands, 2018); the annual Activity-Based Protein Profiling meeting (Leuven, Belgium, 2019); and the Oncode Tumor Heterogeneity meeting (Veldhoven, the Netherlands, 2019).