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GDE transmembrane ecto-enzymes : novel signaling functions through GPI-anchor cleavage

Veen, T.P.M. van

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Author: Veen, T.P.M. van

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Curriculum Vitae

Michiel van Veen was born on September 10th 1985 in Amsterdam, The Netherlands. In 2004 he completed his secondary education at the Willem Lodewijk Gymnasium in Groningen. In the same year, he started his bachelor Life Science and Technology at the University of Groningen. During his first internship at the Pathology department, University Medical Centre Groningen under the supervision of dr. Lydia Visser, he worked on setting up a high throughput calcium measurement protocol to test leukocyte activation. After finishing his bachelor, he enrolled in the Medical Pharmaceutical Science master programme. During his first 9-month research training in the laboratory of Prof dr Ody Sibon and Prof dr Harry van Goor at the Cell Biology department of the University Medical Centre Groningen, he studied the protective effects of hydrogen sulfide on a drosophila animal model with increased oxidative stress. He performed his second master internship in the laboratory of dr. Ben Giepmans, Groningen university and Prof. dr. Moolenaar, Netherlands Cancer Institute in Amsterdam where he started to work on the recently identified enzyme GDE2 and its role in neuroblastoma differentiation. In 2011, Michiel obtained his Master of Science degree and continued his research on the GDE family of proteins as a PhD student in the laboratory of Prof dr Moolenaar at the Division of Cell Biology. The project was funded by a NWO top grant and the results of his research are described in this thesis.

List of Publications

Van Veen M[&], Matas-Rico E[&], Van de Wetering K., Leyton-Puig D., Kedziora KM., De Lorenzi V., Bultsma Y., Van den Broek B., Jalink K., Sidenius N., Perrakis A., Moolenaar WH. *Negative regulation of urokinase receptor activity by a GPI-specific phospholipase C in breast cancer cells.* eLife 2017;6:e23649

Van Veen M[&], Mans L.[&], Matas-Rico E., Van Pelt J., Perrakis A., Moolenaar WH, Haramis A. *Glycerophosphodiesterase GDE2/GDPD5 affects pancreas differentiation in zebrafish.* Int J Biochem Cell Biol. 2018; 94:71-78.

Matas-Rico E., **Van Veen M.**, Moolenaar WH. *GDE2/GDPD5 in neuroblastoma.* Oncotarget 2017;8:5672–5673.

Matas-Rico E., **Van Veen M.**, Moolenaar WH. *Neuronal differentiation through GPI-anchor cleavage.* Cell Cycle 2017;16:388-389.

Matas-Rico E, **Van Veen M**, Leyton-Puig D, Van den Berg J, Koster J, Kedziora KM, Molenaar B, Weerts MJ, De Rink I, Medema RH, Giepmans BN, Perrakis A, Jalink K, Versteeg R, Moolenaar WH. *Glycerophosphodiesterase GDE2 promotes neuroblastoma differentiation through glypican release and is a marker of clinical outcome.* Cancer Cell 2016;30:548-562.

[&] These authors contributed equally



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