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Liposomes as delivery system for allergen-specific immunotherapy

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Citation

Leboux, R. J. T. (2021, November 16). *Liposomes as delivery system for allergen-specific immunotherapy*. Retrieved from <https://hdl.handle.net/1887/3240101>

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Chapter 9

Curriculum Vitae

Romain was born on April 13th, 1990 in Utrecht and raised in Houten. After graduating from secondary school, he started studying Bio-Pharmaceutical Sciences at the University of Leiden in 2008. During the bachelor of this study he discovered the world of drug delivery technology, which he has not left since. The final bachelor's internship under daily supervision of Koen van der Maaden, with a one-year break, turned into a master's internship in the field of microneedles. He subsequently conducted research studying liposomes as a vaccine adjuvant at the Staten Serum Institute in Denmark under supervision of Dennis Christensen. He graduated in December 2014.

Before starting his PhD studies, he developed the course "Farmaceutische Technologie" for the then-new fast-track to pharmacy. During his PhD he contributed to this course several times as a (guest) lecturer. His PhD project titled "Supramolecular peptide amphiphile nanoparticles as a novel allergy vaccine platform" under supervision of Wim Jiskoot, Alexander Kros and Bram Slütter started in the summer of 2015. During his PhD trajectory, several posters were presented on FIGON DMD conferences, Biopharmacy days, ULLA summerschool Helsinki and GPEN Singapore 2018. In December 2020 Romain started at Janssen Vaccines as senior associate scientist in the department of Formulation Science and Technology.

List of publications

K. van der Maaden, H. Yu, K. Sliedregt, R. Zwier, R. Leboux, M. Oguri, A. Kros, W. Jiskoot and J. Bouwstra, Nanolayered chemical modification of silicon surfaces with ionizable surface groups for pH-triggered protein adsorption and release: application to microneedles. *Journal of Materials Chemistry B*, 2013, 1(35): p. 4466-4477. (DOI:10.1039/C3TB20786B)

N. Benne, J. van Duijn, F. Lozano Vigario, R.J.T. Leboux, P. van Veelen, J. Kuiper, W. Jiskoot, B. Slütter, Anionic 1,2-distearoyl-sn-glycero-3-phosphoglycerol (DSPG) liposomes induce antigen-specific regulatory T cells and prevent atherosclerosis in mice. *Journal of Controlled Release*, 2018, p. 135-146. (<https://doi.org/10.1016/j.jconrel.2018.10.028>)

D. Christensen, L. Hansen Boellehuus, R. Leboux, W. Jiskoot, J.P. Christensen, P. Andersen, J. Dietrich, A Liposome Based Adjuvant Containing Two Delivery Systems with the Ability to Induce Mucosal Immunoglobulin A Following a Parenteral Immunization. *ACS Nano*, 2019, p1116-1126. (DOI:10.1021/acsnano.8b05209)

N. Benne, R.J.T. Leboux, M. Glandrup, J. van Duijn, F. Lozano Vigario, M. Aaby Neustrup, S. Romeijn, F. Galli, J. Kuiper, W. Jiskoot, B. Slütter, Atomic force microscopy measurements of anionic liposomes reveal the effect of liposomal rigidity on antigen-specific regulatory T cell responses. *Journal of Controlled Release*, 2019, p. 246-255. (<https://doi.org/10.1016/j.jconrel.2019.12.003>)

J. van Duijn, N. Benne, R.J.T. Leboux, M. van Ooijen, N. Kruit, A. Foks, W. Jiskoot, I. Bot, J. Kuiper, B. Slütter, Tc17 CD8+ T-cells accumulate in murine atherosclerotic lesions and modulate local inflammatory responses. *Cardiovascular Research*, 2020, cvaa286, (<https://doi.org/10.1093/cvr/cvaa286>)

R.J.T. Leboux, N. Benne, W.A. van Os, J. Bussmann, A. Kros, W. Jiskoot, B.A. Slütter, High-affinity antigen association to cationic liposomes via coiled coil-forming peptides induces a strong antigen-specific CD4+ immune response. *European Journal of Pharmaceutics and Biopharmaceutics*, 2020, 158, p96-105. (<https://doi.org/10.1016/j.ejpb.2020.11.005>)

R.J.T. Leboux, P. Schipper, T.M.M. van Capel, L. Kong, K. van der Maaden, A. Kros, W. Jiskoot, E.C. de Jong, J. Bouwstra, Not injection depth, but antigen and formulation determine antigen uptake after intradermal injection. *Frontiers in Allergy*, 2021, 2 (<https://doi.org/10.3389/falgy.2021.642788>)

