Dyslipidemia at the crossroad of the skin barrier and the arterial wall

Martins Cardoso, R.

Appendix

Curriculum Vitae

List of Publications

CURRICULUM VITAE

Renata Martins Cardoso was born in Vitória (Espírito Santo, Brazil) on the 8th of April 1986. She did her bachelor studies in Pharmacy with a minor in Biochemistry at the Federal University of Espírito Santo (Vitória, Brazil). During her bachelor studies, she did a research internship in the Department of Physiology led by Prof. Dr. Margareth Moysés studying the impact of adrenergic activity induced by ultrasound stimulation on plasma sodium levels in obese Wistar rats.

In early 2011, she moved to The Netherlands where a year later she started her Master's research program in Drug Innovation at Utrecht University. During her Master's program she dedicated herself to the research of drug delivery systems. Her first master's project took place in the department of Pharmaceutics under supervision of Dr. Rene van Nostrum and Prof. Dr. Wim Hennink. The research focused on the development of UV-crosslinkable thermosensitive micelles for drug delivery. Next, she joined the group of Prof. Dr. Raymond Schiffelers at the department of Clinical Chemistry and Hematology of the Utrecht University Medical Centre (UMC Utrecht) where she explored different labelling strategies for tracking of extracellular vesicles.

Starting in 2014 Renata performed her Ph.D. studies at Leiden University in the Division of BioTherapeutics of the Leiden Academic Centre for Drug Research under supervision of Prof. Dr. Joke Bouwstra and Prof. Dr. Miranda van Eck. Her research mostly focused on the impact of dyslipidemia on the skin lipid homeostasis and barrier function. In addition, she collaborated with a fellow Ph.D. student (Naomi Benne) to explore the homing properties of a small peptide to target liposomes to macrophages (foam cells) in the atherosclerotic plaques. Renata also collaborated with the group of Dr. Tanja X. Pedersen (University of Copenhagen, Denmark) to investigate the effects of imiquimod-induced psoriasis on the development of atherosclerosis. During her Ph.D. trajectory, she won several presentation prizes (including best poster prize for three consecutive years at the LACDR Spring Symposium) and was invited to give a short communication at the Gordon Research Conference on Barrier Function of Mammalian Skin conference (United States).

Since 2020, Renata works at Janssen Vaccines and Prevention (Leiden, The Netherlands) in the Drug Product Development department.

LIST OF PUBLICATIONS

Martins Cardoso R., Absalah S., Eck M. van[1], Bouwstra J.A.[1] (2020). Barrier lipid composition and response to plasma lipids: A direct comparison of mouse dorsal back and ear skin. Experimental Dermatology 29(6): 548-555.

Martins Cardoso R.[1], Benne N.[1], Boyle A.L., Kros A., Jiskoot W., Kuiper J., Bouwstra J., Eck M. van, Slütter B.A. (2020). Complement Receptor Targeted Liposomes Encapsulating the Liver X Receptor Agonist GW3965 Accumulate in and Stabilize Atherosclerotic Plaques. Advanced Healthcare Materials 9(10): 2000043.

Martins Cardoso R., Creemers E., Absalah S., Hoekstra M., Gooris G.S., Bouwstra J.A.[1], Eck M. van[1] (2020). Hyperalphalipoproteinemic scavenger receptor BI knockout mice exhibit a disrupted epidermal lipid barrier. Biochimica et Biophysica Acta Molecular and Cell Biology of Lipids 1865(3): 158592.

Martins Cardoso R., Creemers E., Absalah S., Gooris G.S., Hoekstra M., Eck M. van[1], Bouwstra J.A.[1] (2019). Hypercholesterolemia in young adult *APOE*$^{-/-}$ mice alters epidermal lipid composition and impairs barrier function. Biochimica et Biophysica Acta Molecular and Cell Biology of Lipids 1864(7): 976-984.

Madsen M., Hansen P.R., Nielsen L.B., **Martins Cardoso R**., Eck M. van., Pedersen T.X. (2018), Imiquimod-Induced Psoriasis-Like Skin Lesions Do Not Accelerate Atherosclerosis in Low-Density Lipoprotein Receptor-Deficient Mice. American Journal of Pathology 88(6): 1486-1496.

Shi Y.; **Martins Cardoso R**., Nostrum C.F. van, Hennink W. van (2015). Anthracene functionalized thermosensitive and UV-crosslinkable polymeric micelles. Polymer Chemistry 11(6):2048-2053.

[1]Both authors contributed equally