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Liposome-based vaccines for immune modulation: from antigen selection to nanoparticle design

Lozano Vigario, F.

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CURRICULUM VITAE

Fernando Lozano Vigario was born in Guareña (Spain) on September 11th, 1992. He received his primary education at Nuestra Señora de los Dolores school and his secondary education at I.E.S. Eugenio Frutos High School. In 2010, he enrolled in the bachelor of Biochemistry at University of Seville (Spain). He graduated in 2016 with double specialization in Molecular Biochemistry and Biotechnology. During this time in Seville, he performed his bachelor research project at the department of Microbiology under the supervision of Dr. F.J. López Baena.

In September 2016, he moved to Leiden (The Netherlands) and enrolled in the master of Bio-Pharmaceutical Sciences at Leiden University. He performed his master research project entitled “Liposomes containing 1,2-Distearoyl-sn-glycero-3-phosphoglycerol (DSPG) as potential treatment to control inflammation in atherosclerosis” in the Division of BioTherapeutics in the Leiden Academic Centre for Drug Research (LACDR) under the supervision of Naomi Benne. As part of the master in Bio-Pharmaceutical Sciences, he also performed a research internship at Janssen Vaccines and Prevention B.V. focusing on the development of liposomal adjuvant formulations containing QS-21 and/or 3D-(6-acyl) PHAD in microfluidics system, under the supervision of Dr. Edina Couteau. Fernando obtained his master’s degree *cum laude* in October 2018. From December 2018 until December 2023, he performed his doctoral research in the Division BioTherapeutics under the supervision of Dr. Bram Slütter, prof. dr. Joke Bouwstra and prof. dr. Alexander Kros. The results from this research are presented in this book.

In March 2024, Fernando joined Neogene Therapeutics (Amsterdam, The Netherlands) as Senior Research Associate where he works on the development of T cell therapies against cancer.

LIST OF PUBLICATIONS

Benne N, van Duijn J, **Lozano Vigario F**, Lebox RJT, van Veelen P, Kuiper J, Jiskoot W, Slütter B. Anionic 1,2-distearoyl-sn-glycero-3-phosphoglycerol (DSPG) liposomes induce antigen-specific regulatory T cells and prevent atherosclerosis in mice. *J Control Release*. 2018; 291:135-146.

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