Lipid model membrane systems as a tool for unraveling the underlying factors for skin barrier dysfunction

Uche, L.E.

Lipid model membrane systems as a tool for unraveling the underlying factors for skin barrier dysfunction

Lorretta Uche

Lipid model membrane systems as a tool for unraveling the underlying factors for skin barrier dysfunction

PhD thesis, with summary in Dutch

The research described in this thesis was performed at the Leiden Academic Center for Drug Research, Leiden University, Leiden, The Netherlands.

Cover image: X-ray diffraction pattern of a simple stratum corneum lipid model. The equidistant positions of concentric rings indicate a lamellar phase.

Layout: Douwe Oppewal
Printed by: Ipskamp Printing, Enschede

ISBN: 78-94-6421-548-9

Lipid model membrane systems as a tool for unraveling the underlying factors for skin barrier dysfunction

Proefschrift

ter verkrijging van
de graad van doctor aan de Universiteit Leiden,
op gezag van rector magnificus prof.dr.ir. H. Bijl,
volgens besluit van het college voor promoties
te verdedigen op 14 december 2021
klokke 10:00 uur

door

Lorretta Uche
geboren te Urualla, Nigeria
in 1969

Promotor
Prof. dr. J.A. Bouwstra

Co-Promotor
Dr. C.M. Beddoes

Promotiecommissie
Prof. dr. H. Irth, Universiteit Leiden (voorzitter)
Prof. dr. J. Kuiper, Universiteit Leiden (secretaris)
Prof. dr. R. Rissmann, Universiteit Leiden
Prof. dr. A. Kros, Universiteit Leiden
Prof. dr. J. Lawrence, University of Manchester
Dr. O. Lopez Serrano, Institute of Advanced Chemistry of Catalonia

To my husband for making this journey with me and my family for their unwavering support and love

TABLE OF CONTENTS