

Transport and sorting of sphingolipids in polarized cells

- The involvement of the sub-apical compartment -



Sven C.D. van IJzendoorn

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The studies as described in this thesis were performed at the department of Physiological Chemistry, Faculty of Medical Sciences, Groningen Institute for Drug Studies, University of Groningen, The Netherlands, except for those described in chapter 7 which were performed in the laboratory of Dr. Keith Mostov at the department of Anatomy, University of California School of Medicine, San Francisco, California, U.S.A.

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Cover: a computer-generated artistic 3-D reproduction of a C₆-NBD-sphingolipid-labeled bile canalicular pole (BCP). In this mountainous-like image, the degree of blackness corresponds to the fluorescence intensity. Note the crater-shaped structure in the middle with the dark edges, representing the bile canaliculus (BC) of HepG2 cells and its labeled membrane, and the separate mountain-like ridges in front of and behind this BC membrane, representing the sub-apical compartments. (*by: SCDvIJ*)

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THE INVOLVEMENT OF THE SUB-APICAL COMPARTMENT**

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Contents

	Page
Chapter 1: Introduction. Membrane domains and the polarized sorting of proteins and lipids: who, where, when and how	7
Chapter 2: Segregation of sphingomyelin and glucosylceramide occurs in the apical to basolateral transcytotic route in HepG2 cells	19
Chapter 3: (Glyco)sphingolipids are sorted in sub-apical compartments in HepG2 cells: a role for non-Golgi-related intracellular sites in the polarized distribution of (glyco)sphingolipids	35
Chapter 4: Polarized sphingolipid transport from the sub-apical compartment: evidence for distinct sphingolipid domains	59
Chapter 5: Polarized sphingolipid transport from the sub-apical compartment changes during cell polarity development	81
Chapter 6: Selective transport of sphingolipids from the sub-apical compartment to the apical plasma membrane via rab11-positive intermediate compartments	95
Chapter 7: Merging of biosynthetic and transcytotic sphingolipid transport pathways in the sub-apical compartments in MDCK cells	115
Chapter 8: Perspective. The sub-apical compartment: a novel sorting center?	127
References	139
Summary	151
Samenvatting	153
Nawoord	159
Publications	160

