

Contents

Chapter 1	Introduction	
	Scope of the thesis	9
	Chaperoning antigen presentation by MHC class II molecules and their role in oncogenesis. <i>Adv. Cancer Res. 93:129-158 (2005)</i>	11
	Rab proteins, connecting transport and vesicle fusion <i>Traffic: In press (2005)</i>	29
Chapter 2	Opposing motor activities of dynein and kinesin determine retention and transport of MHC class II-containing compartments. <i>J. Cell. Sci. 112: 785 (1999)</i>	43
Chapter 3	The Rab7 effector protein RILP controls lysosomal transport by inducing the recruitment of dynein-dynactin motors. <i>Curr. Biol. 11: 1680 (2001)</i>	65
Chapter 4	A splice variant of the Rab7 effector RILP induces lysosomal clustering without dynein motor recruitment. <i>Submitted (2005)</i>	83
Chapter 5	Dynein-mediated vesicle transport controls intracellular Salmonella replication. <i>Mol. Biol. cell. 15: 2954 (2004)</i>	101
Chapter 6	Rab7 and Rab27a control two motor protein activities competing in melanosomal transport. <i>Resubmitted (2005)</i>	121
Chapter 7	Summary and Discussion	139
	Nederlandse Samenvatting	149
	Curriculum Vitae	155
	List of Publications	157