

On Leukocyte Recruitment in Cholestatic Liver Injury

Laschke, Matthias
2008
2006
Link to publication
Citation for published version (APA): Laschke, M. (2008). On Leukocyte Recruitment in Cholestatic Liver Injury. [Doctoral Thesis (compilation), Department of Clinical Sciences, Malmö]. Department of Clinical Sciences, Lund University.
Total number of authors: 1

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ON LEUKOCYTE RECRUITMENT IN CHOLESTATIC LIVER INJURY

Matthias W. Laschke

Academic Thesis

With permission from the Medical Faculty at Lund University for the presentation of this PhD thesis in a public forum in the CRC, Entrance 72, Malmö University Hospital, Malmö, on 28th November

Faculty opponent: Professor Thomas Minor, University of Bonn

Supervisor: Henrik Thorlacius, MD, PhD, Associate Professor



Faculty of Medicine

Malmö 2008

Department of Clinical Sciences, Surgery Research Unit, Malmö University Hospital

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Organization LUND UNIVERSITY	DOCTORAL DISSERTATION		
Department of Surgery Malmö University Hospital SE-205 02 Malmö	Date of issue November 28th, 2008		
	Sponsoring organization		
Author(s)	_		
Matthias Laschke			
Title and subtitle On leukocyte recruitment in cholestatic liver i	ning		
Abstract			
resulting in severe liver injury. In this inflammatory feature. Therefore, the aim of this thesis was to anal accumulation and its regulation in the pathophysiolompact on hepatocellular function and damage. For C57BL/6 mice in the well established experimental bile duct ligation. Analyses included intravital fluor cytometry, determination of bilirubin and liver enzy secretion. In doing so, it was found that P-selectin-r production of pro-inflammatory mediators, is the probstructive cholestasis is as-sociated with P-selectir crucially contributes to leukocyte recruitment and li adhesion in the liver microcirculation during obstrucholestasis-induced CXC chemokine formation, leu Thus, the results of this thesis clearly demonstrate the pathophysiology of cholestasis. Accordingly, it may an effective strategy to preserve bile flow under septinjury.	yze the detailed mechanisms ogy of sepsis-associated or of this purpose, cholestatic con models of LPS sepsis and ol rescence microscopy, histologue levels as well as measure mediated recruitment of leukimary cause of sepsis-associal-mediated intrahepatic plate ver injury. Besides, LFA-1 rective cholestasis. Finally, inhabet well was the content of the concluded that targeting to be concluded that targeting the sepsis-associal transportation of the concluded that targeting the concluded that targeting or this purpose.	s behind intrahepatic leukocyte bstructive cholestasis and their ditions were induced in ostructive cholestasis following gy, ELISA, RT-PCR, flow ement of bile flow and ocytes, but not the local ated cholestasis. Moreover, let accumulation, which nediates firm leukocyte nibition of rhokinase attenuates tocellular damage in the liver. the liver plays a key role in the leukocyte recruitment may be	
Key words: Cholestasis, Endothelium, Inflammat	ion, Leukocyte and Liver		
Classification system and/or index termes (if any):			
Lund University, Faculty of Medicine	Doctoral Dissertation Serie	s 2008:132	
Supplementary bibliographical information:		Language	
		English	
ISSN and key title:		ISBN	
1652-8220		978-91-86059-85-9	
Recipient's notes	Number of pages 126	Price	
	Security classification		
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