

On Leukocyte Recruitment in Cholestatic Liver Injury

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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



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On leukocyte recruitment in cholestatic live	er injury		
Abstract Cholestasis is a frequent clinical syndrome, which			
feature. Therefore, the aim of this thesis was to an accumulation and its regulation in the pathophysi impact on hepatocellular function and damage. F. C57BL/6 mice in the well established experiment bile duct ligation. Analyses included intravital flucytometry, determination of bilirubin and liver er secretion. In doing so, it was found that P-selecting production of pro-inflammatory mediators, is the obstructive cholestasis is as-sociated with P-selecting crucially contributes to leukocyte recruitment and adhesion in the liver microcirculation during obsticholestasis-induced CXC chemokine formation, In Thus, the results of this thesis clearly demonstrate pathophysiology of cholestasis. Accordingly, it in an effective strategy to preserve bile flow under sinjury.	ology of sepsis-associated or of or this purpose, cholestatic contal models of LPS sepsis and of the orescence microscopy, histologyme levels as well as measuren-mediated recruitment of leuk-primary cause of sepsis-associatin-mediated intrahepatic plated liver injury. Besides, LFA-1 retructive cholestasis. Finally, in leukocyte recruitment and hepate that leukocyte recruitment in any be concluded that targeting	bstructive cholestasis and their ditions were induced in structive cholestasis following gy, ELISA, RT-PCR, flow ement of bile flow and poytes, but not the local ated cholestasis. Moreover, let accumulation, which nediates firm leukocyte hibition of rhokinase attenuates tocellular damage in the liver. the liver plays a key role in the leukocyte recruitment may be	
Key words: Cholestasis, Endothelium, Inflamm	nation, Leukocyte and Liver		
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