Supplementary material:

Table 1: Tissue distribution and sites of origin for the pattern recognition molecules of the lectin pathway.

Protein	Tissue distribution	References
MBL	Liver	[1-3]
M-ficolin	Peripheral blood leukocytes, lung	[4-7]
L-ficolin	Liver	[6, 8]
H-ficolin	Liver (hepatocytes, bile duct epithelial cells), lung	[9, 10]
CL-L1	Liver	[11]

In addition to the references above describing tissue distribution and sites of origin for the lectin pathway proteins, a Swedish company has specialized in RNA and immunohistochemical analyses of all human proteins. These are displayed online at www.proteinatlas.org [12]. Below is a summary of the pattern recognition molecules of the lectin pathway proteins based on their distribution according to www.proteinatlas.org. The tissues are listed according to expression from highest to lowest.

Table 2: Tissue distribution of the pattern recognition molecules according to the Proteinatlas.org.

Protein (gene)	RNA	IHC
MBL (mbl2)	Liver	Highly specific cytoplasmic
		expression in liver.
M-ficolin (fcn1)	Bone marrow, appendix,	A subset of leukocytes,
	spleen, urinary bladder, lung	macrophages in lung, cells in
		spleen and bone marrow.
L-ficolin (fcn2)	Liver	Pending analyses.
H-ficolin (fcn3)	Lung, liver	Fractions of cells in the
		gastrointestinal tract, thyroid
		gland and hepatocytes showed
		distinct granular cytoplasmic
		staining. The adrenal gland
		was strongly stained.
CL-L1 (colec10)	Liver	Normal liver tissue showed
		moderate to strong, often
		granular, cytoplasmic staining.

IHC (Immunohistochemical staining)

Figure 1: MBL levels in patients with acute liver failure at day 1 and day 3 in relation to infection status. The box plots represent median and 25–75 percentiles. Upper and lower lines are the upper and lower adjacent values.

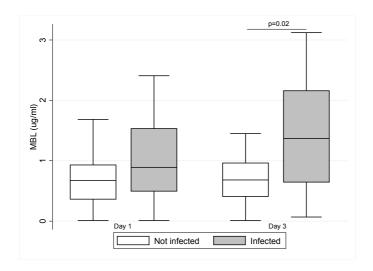
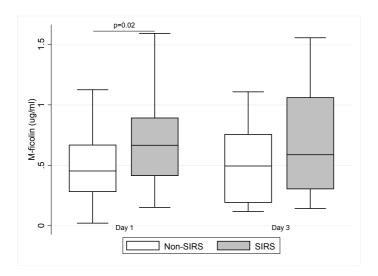


Figure 2: M-ficolin levels in patients with acute liver failure at day 1 and day 3 in relation to the SIRS criteria.



References:

- [1] Wild J, Robinson D, Winchester B. Isolation of mannose-binding proteins from human and rat liver. Biochem J 1983; 210: 167-174.
- [2] Colley K J, Beranek M C, Baenziger J U. Purification and characterization of the core-specific lectin from human serum and liver. Biochem J 1988; 256: 61-68.
- [3] Summerfield J A, Taylor M E. Mannose-binding proteins in human serum: identification of mannose-specific immunoglobulins and a calcium-dependent lectin, of broader carbohydrate specificity, secreted by hepatocytes. Biochim Biophys Acta 1986; 883: 197-206.
- [4] Lu J, Tay P N, Kon O L, Reid K B. Human ficolin: cDNA cloning, demonstration of peripheral blood leucocytes as the major site of synthesis and assignment of the gene to chromosome 9. Biochem J 1996; 313 (Pt 2): 473-478.
- [5] Lu J, Le Y, Kon O L, Chan J, Lee S H. Biosynthesis of human ficolin, an Escherichia colibinding protein, by monocytes: comparison with the synthesis of two macrophage-specific proteins, C1q and the mannose receptor. Immunology 1996; 89: 289-294.
- [6] Endo Y, Sato Y, Matsushita M, Fujita T. Cloning and characterization of the human lectin P35 gene and its related gene. Genomics 1996; 36: 515-521.
- [7] Liu Y, Endo Y, Iwaki D, Nakata M, Matsushita M, Wada I, et al. Human M-ficolin is a secretory protein that activates the lectin complement pathway. J Immunol 2005; 175: 3150-3156.
- [8] Matsushita M, Endo Y, Taira S, Sato Y, Fujita T, Ichikawa N, et al. A novel human serum lectin with collagen- and fibrinogen-like domains that functions as an opsonin. J Biol Chem 1996; 271: 2448-2454.
- [9] Akaiwa M, Yae Y, Sugimoto R, Suzuki S O, Iwaki T, Izuhara K, et al. Hakata antigen, a new member of the ficolin/opsonin p35 family, is a novel human lectin secreted into bronchus/alveolus and bile. J Histochem Cytochem 1999; 47: 777-786.

- [10] Fukutomi T, Ando B, Sakamoto S, Sakai H, Nawata H. Thermolabile beta-2 macroglycoprotein (Hakata antigen) in liver disease: biochemical and immunohistochemical study. Clin Chim Acta 1996; 255: 93-106.
- [11] Ohtani K, Suzuki Y, Eda S, Kawai T, Kase T, Yamazaki H, et al. Molecular cloning of a novel human collectin from liver (CL-L1). J Biol Chem 1999; 274: 13681-13689.
- [12] Uhlen M, Oksvold P, Fagerberg L, Lundberg E, Jonasson K, Forsberg M, et al. Towards a knowledge-based Human Protein Atlas. Nat Biotechnol 2010; 28: 1248-1250.