

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/22185> holds various files of this Leiden University dissertation

Author: Pol, Pieter van der

Title: Pathogenic role of complement in renal ischemia/reperfusion injury

Issue Date: 2013-11-12

STELLINGEN (PROPOSITIONS)

behorende bij het proefschrift getiteld

Pathogenic role of complement in renal ischemia/reperfusion injury

1. Hypoxic human renal tubular cells, in contrast to mouse renal tubular cells, primarily activate the classical pathway of complement demonstrating important species differences. (*this thesis*)
2. Presence of plasma proteins in urine (proteinuria) might lead to complement activation and generation of terminal complement complex C5b-9 independent of a renal contribution. (*this thesis*)
3. In clinical kidney transplantation there is an acute but very transient release of terminal complement complex C5b-9 from the allograft after reperfusion. (*this thesis*)
4. Complement activation following renal ischemia/reperfusion is preceded by deposition of MBL and tubular injury. (*this thesis*)
5. Therapeutic inhibition of MBL during renal ischemia/reperfusion protects against kidney dysfunction, tubular injury, leukocyte accumulation and expression of proinflammatory mediators. (*this thesis*)
6. MBL induces renal tubular injury following ischemia/reperfusion independent of complement activation. (*this thesis*)
7. MBL appears to be a double-edged sword in human disease, where the disease dictates whether the presence or absence of MBL influences the clinical outcome. (*J Immunol. 2012; 188:885, Expert Rev Anti Infect Ther. 2011; 9:1179*)
8. MBL binding to apoptotic cells does not necessarily lead to complement activation, but rather facilitates phagocytic uptake by macrophages. (*Eur J Immunol. 2003; 33:2853, J Leukoc Biol. 2009; 86:737*)
9. Although the complement-activating effects of MBL are well-known, the effector functions of MBL mediated via the collagenous region are still poorly understood. (*Immunol Rev. 2009; 230:9*)
10. MBL is cytotoxic to human colorectal carcinoma *in vivo* independent of complement activation. (*PNAS 1999 ;96:371*)
11. Failures, repeated failures are fingerposts on the road to achievement. (*Charles F. Kettering; Charles F. Kettering, A Biography, 1957, p40*)
12. The history of organ transplantation started when God created Eve from Adam's rib. (*Holy Bible, Genesis 2:22-23*)
13. Knowledge is a process of piling up facts; wisdom lies in their simplification. (*Martin H. Fischer; Encore : A Continuing Anthology, March 1945, p309*)
14. You never know how much you really believe anything until its truth or falsehood becomes a matter of life and death to you. (*C.S. Lewis; A Grief Observed, 1961, p25*)