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Proteoglycans modulate renal inflammation

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Stellingen behorende bij het proefschrift

Proteoglycans modulate renal inflammation: *Studies on complement and leukocyte recruitment*

1. Properdin binds to heparan sulfate proteoglycans on the apical side of tubular cells (this thesis).
2. Interaction of properdin with tubular heparan sulfate proteoglycans leads to activation of the alternative pathway of complement on these cells (this thesis).
3. Both factor H and properdin interact with tubular heparan sulfate proteoglycans, however they recognize different oligosaccharide motifs (this thesis).
4. N+O sulfated K5 which is a low anti-coagulant heparinoid inhibits the alternative pathway activation on tubular cells by selectively binding to properdin, while it does not interfere with factor H binding to the cells (this thesis).
5. Subcutaneous treatment with non-anticoagulant RO-heparinoid reduces inflammation in renal tissue after transplantation (this thesis).
6. Collagen XV and XVIII are basement membrane zone proteoglycans in the kidney and they mediate the inflammatory cell influx to the renal tissue upon ischemia/reperfusion (this thesis).
7. The alternative pathway of the complement system is involved in the pathogenesis of end stage renal disease in native kidneys and acute rejection in transplanted kidneys, as shown by Single Nucleotide Polymorphism analysis of factor H in a renal transplantation population (this thesis).
8. In this world, there are things you can only do alone, and things you can only do with somebody else. It's important to combine the two in just the right amount (Haruki Murakami).
9. If you're not failing every now and then, it is a sign you are not doing anything very innovative (Woody Allen).
10. Keep your dreams, you never know when you might need them (Carlos Ruiz Zafón).
11. No fisherman shall ever find a pearl in a small brook which empties into a pool (Forough Farrokhzad, Iranian poet).

Azadeh Zaferani
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