

# The alternative pathway of the complement system in vascular comorbidities of obesity and type 2 diabetes

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## **Propositions**

Accompanying the dissertation

### **The alternative pathway of the complement system in vascular comorbidities of obesity and type 2 diabetes**

**Shunxin Jin**

1. Plasma factor D is cross-sectionally associated with low-grade inflammation, endothelial dysfunction and cardiovascular disease (this dissertation).
2. Complement factor D and C3 cross-sectionally associate with arterial stiffness, but not independently of metabolic risk factors (this dissertation).
3. Plasma concentrations of complement C3 explain part of the associations of adiposity with insulin resistance, fasting glucose and type 2 diabetes (this dissertation).
4. Diet-induced weight loss intervention reduces plasma complement C3 concentrations (this dissertation).
5. Complement factors have potential in risk-prediction for obesity-associated cardiometabolic diseases and may also be the potential targets in treatment of obesity-associated cardiometabolic diseases.
6. There is a long way to go from theory of epidemiology to practice.
7. Human needs should be the first principle for public health.
8. Solving a problem is important in academic research, while raising a question is more important than solving it.
9. Every great scientific truth goes through three stages. First, people say it conflicts with the Bible. Next, they say it has been discovered before. Lastly, they say they always believed it. (Louis Agassiz).
10. What really makes science grow is new ideas, including false ideas (Sir Karl Popper).
11. Happiness hates the timid. So does science (Eugene O'Neill)!