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## **Hemodialysis vascular access failure: novel pathophysiological mechanisms and therapeutic strategies**

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Stellingen behorende bij het proefschrift

**Hemodialysis vascular access failure: novel pathophysiological mechanisms and therapeutic strategies**

1. It is time to recognize vascular access as truly multi-disciplinary science. **This thesis**
2. The current view on arteriovenous fistula maturation underscores the link between impaired outward remodeling and arteriovenous fistula failure. **This thesis**
3. Successful AVF maturation is severely hampered by excessive inflammation. **This thesis**
4. Extracellular matrix architecture will ultimately determine VSMCs behavior and could potentially differ between arterial and venous VSMCs. **This thesis**
5. The vascular access is the lifeline for a lifetime for the hemodialysis patient. **Inspired by Timmy Lee *Clin J Am Soc Nephrol*, vol. 11, 2016**
6. Enthusiasm for systemic administration of agents to address vascular access dysfunction is somewhat limited because of off-target effects and toxicities. **Christi M. Terry and Laura M. Dember *Clin J Am Soc Nephrol*, vol. 8, 2013**
7. There is a current lack of understanding about possible phenotype switching within the venous neointima. **Prabir Roy-Chaudhury et al. *Nephrol Dial Transplant*, vol. 24, 2009**
8. I had no idea our technique would continue to be popular for so many years later. I thought the real advances were going to be in chemistry, and that scientists would develop a pill to help patients with end-stage-renal disease. **Dr. James Cimino, inventor of the Cimino- Brescia fistula (1928-2010).**
9. Yeah, well, you know, that's just, like, your opinion, man. **The Dude, Big Lebowski, Venice, California, 1998.**  
*on peer review process and how not to be biased by your own research interests or popular trends*
10. A good composer does not imitate; he steals. **Igor Stravinsky (1882 – 1971)**  
*on finding inspiration in the work of others, then using it as a starting point for original creative output*
11. There is a crack in everything, that's how the light gets in. **Leonard Cohen (1934-2016)**  
*on imperfection, that gives us a glimpse of and perhaps a path to that greater scientific discoveries*
12. The fight is won or lost far away from witnesses—behind the lines, in the gym, and out there on the road, long before I dance under those lights. **Muhammad Ali (1942 – 2016)**  
*To honor everyday routine work and all the people involved*