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## Novel views on endotyping asthma, its remission, and COPD

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## Stellingen

1. As individuals in complete asthma remission are clinically identical to healthy controls, the first group can inform on novel curative interventions for asthma. (this thesis)
2. In order to more accurately predict asthma remission, clinical features have to be combined with biomarkers that are associated with cellular or molecular pathways linked to the induction of asthma remission. (this thesis)
3. In patients with COPD, a bronchoscopy with bronchial biopsies is clinically justifiable if this can predict future accelerated lung function decline. (this thesis)
4. Quantified high-resolution computed tomography, such as parametric response mapping, can be implemented to analyze radiological features of asthma patients. (this thesis)
5. Optical coherence tomography provides a direct *in vivo* measurement of airway wall remodeling. (this thesis)
6. The exhaled particle mass does not fully distinguish between large and small airways function. (this thesis)
7. Single-cell RNA-sequencing enables us to identify differences in proportions and transcriptional signatures of cell types in the airway wall between asthmatics and healthy. (this thesis)
8. De term 'inflammatie' is de schwalbe van de pathogenesebeschrijving.
9. Onderzoek naar kleine luchtwegziekte is vergelijkbaar met tasten door een eindeloze tunnel.
10. Sometimes science is more art than science, Morty. A lot of people don't get that. (Rick)
11. It doesn't get any easier, you just get faster. (Greg LeMond)
12. Hard work, sacrifice, and focus will never show up in tests. (Lance Armstrong)
13. Machines have less problems. I'd like to be a machine, wouldn't you? (Andy Warhol)
14. Als je geen magnetron in huis hebt, ben je in feite mislukt als persoon. (Pepijn Lanen)