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Universiteit Leiden



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**Title:** Development and use of biomarkers in clinical development of new therapies for chronic airway disease

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# Stellingen behorende tot het proefschrift

## DEVELOPMENT AND USE OF BIOMARKERS IN CLINICAL DEVELOPMENT OF NEW THERAPIES FOR CHRONIC AIRWAY DISEASE

- 1 RPL554, a dual PDE3 and PDE4 inhibitor, will be more successful for the treatment of COPD than for allergic asthma because its anti-inflammatory effects seem confined to neutrophils (*this thesis*)
- 2 Serum Pulmonary Surfactant associated protein D is a potential biomarker for COPD (*this thesis*)
- 3 The focus on allergic asthma has deprived many asthma patients of new treatments (*this thesis*).
- 4 Selection of an allergic, corticosteroid responsive asthma population results in a homogeneous mRNA fingerprint (*this thesis*)
- 5 Detailed understanding of the pathogenesis of asthma will result in innovative interventions (*Stokes JR. Promising future therapies for asthma. Int Immunopharmacol. 2014 Nov;23(1):373-7*)
- 6 The Inhaled allergen bronchoprovocation test has a fair positive predicted value and an excellent negative predictive value for the clinical efficacy of new antiasthma therapies (*Diamant Z, Gauvreau GM, Cockcroft DW, Boulet LP, Sterk PJ, de Jongh FH, Dahlén B, O'Byrne PM. Inhaled allergen bronchoprovocation tests. J Allergy Clin Immunol. 2013 Nov;132(5):1045-1055*)
- 7 Microorganism-induced suppression of allergic airway disease offers therapeutic options for the treatment of allergic asthma (*Obieglo K, van Wijck Y, de Kleijn S, Smits HH, Taube C. Microorganism-induced suppression of allergic airway disease: novel therapies on the horizon? Expert Rev Respir Med. 2014 Dec;8(6):717-30*)
- 8 A question-based approach to drug development is superior to the phase 1-4 concept because it makes the development process transparent (*Cohen AF. Developing drug prototypes: pharmacology replaces safety and tolerability? Nat Rev Drug Discov. 2010 Nov;9(11):856-65.*).
- 9 De helft van een schaatsmarathon is 34 rondjes (*Masters competitie Jaap Edenbaan, Amsterdam*)
- 10 Intelligentie is macht, karakter is meer (*aangepast motto Nederlandse Defensie Academie*)