

## Stellingen behorend bij het proefschrift

### Action and Function of Neutrophils in Crohn`s disease

1. Choosing the appropriate method for neutrophil isolation before performing any functional assays is essential. (this thesis)
2. Neutrophils from patients with Crohn`s disease have inherent defects in some of their functions, which demonstrates that impaired innate immunity of the neutrophil compartment may contribute to disease pathology. (this thesis)
3. Stratification of Crohn`s disease patients by the presence of an intronic SNP in the *NCF4* gene enables us to identify a subset of patients who are defective in reactive oxygen species production. (this thesis)
4. Neutrophils at the site of inflammation in Crohn`s disease behave like Antigen-presenting-cells. (this thesis)
5. Ileal Crohn`s disease has a fundamentally different aetiology as compared to colonic Crohn`s disease. (this thesis)
6. Inhibition of p21Rac1 signaling and subsequent enhanced innate immune function mediates both spontaneous and medication induced remission in inflammatory bowel disease. (this thesis)
7. From the pathologist`s point of view Crohn`s disease is seen as a single disease characterised by patchy inflammation of the intestine. However, biologically speaking it is not one disease, but there are at least 3-5 different types of Crohn`s disease.
8. As childhood infections and poor hygiene may enable the human host to develop immunity and tolerance to agents that trigger Crohn`s disease during later stages of life, reducing our hygienic standard may prevent the development of this disease.
9. Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world. (Louis Pasteur, 1882-1895)
10. Learn from the mistakes of others... you can`t live long enough to make them all yourselves!! (Chanakya, Indian Philosopher, 370–283 BCE)
11. Known is a drop, unknown is an ocean. (Avvaiyar, Indian tamil Philosopher)

Rajesh Somasundaram  
Rotterdam, 19 June 2013