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## The genetics of type 2 diabetes

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### Citation

Reiling, H. W. (2010, March 10). *The genetics of type 2 diabetes*. Retrieved from <https://hdl.handle.net/1887/15057>

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## Stellingen

Mitochondrial dysfunction caused by genetic factors is unlikely to be a common risk factor for type 2 diabetes.

*This thesis*

In order to make genetic studies on type 2 diabetes useful for clinical application, additional investments are necessary to reveal the significance of low frequency and copy number variants.

*This thesis*

Genetic studies on type 2 diabetes suggest that insulin sensitivity is not a major factor controlling type 2 diabetes susceptibility via sequence variants.

*This thesis and Florez JC, Diabetologia 2008*

Results from genetic association studies on low-frequency variants can be driven by population heterogeneity and, therefore, caution should be taken when analyzing such variants.

*This thesis and 't Hart LM et al, Diabetes 2005*

A multistage approach preserves a high power and is a good alternative for meta-analysis of multiple studies.

*This thesis and Easton DF et al, Nature Genetics, 2007*

Currently known genetic risk factors for type 2 diabetes are less useful for disease prediction than classical risk factors like obesity and sedentary life style.

*Lango H et al, Diabetes 2008. Lyssenko V et al, New England Journal of Medicine 2008 and van Hoek M et al, Diabetes 2008*

The exercise-trained state should be considered as the biologically normal state and, therefore, not being mentioned as having health benefits. Rather, the sedentary lifestyle should be considered as being abnormal and having health drawbacks.

*Hawley JA et al, Nutrition Reviews 2009*

Although more is better when considering optimal sample size for detecting common variants with minor odds ratio's, researchers should keep in mind that most of them will be of little use for the clinical application and better insight in pathogenesis.

*McCarthy MI et al, Nature Reviews Genetics 2008*

The search for low-frequency functional variants might result in more relevant genetic risk factors compared to common variants, but until now little evidence has been collected to shown that such variants really exist.

*Lyssenko V et al, New England Journal of Medicine 2008*

Werkbesprekingen beslaan een te groot gedeelte van het aantal productieve werkuren en moeten worden teruggedrongen tot een minimum.

Aan de linker kant van de weg lopen brengt enkel verwarrende en gevaarlijke situaties met zich mee en draagt niet bij aan een verhoogde veiligheid van wandelaars.

Voor het uitlopen van een halve marathon is naast lichamelijk uithoudingsvermogen vooral ook mentaal uithoudingsvermogen een vereiste.

A good cover is the 'eye-catcher' of the thesis.