

# Public Health Genomics : translation of genomic research on smoking behaviour into evidence synthesis and guidelines for public health

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Propositions belonging to the dissertation

**Public Health Genomics:  
Translation of genomic research on smoking behaviour  
into evidence synthesis and guidelines for public health.**

**Sylviane de Viron**

Maastricht, 6 December 2013

1. Improving smoking cessation success is likely by taking into account all factors related to smoking cessation including environmental factors, genomic factors, interventions and interactions between those factors. - *This dissertation*
2. In a genetic point of view, two broad categories of disorders associated to tobacco use disorder were observed: coexisting disorders of smoking (e.g. depressive disorders) and disorders that are side effects of smoking (e.g. vascular disorders). - *This dissertation*
3. Most posts discussing genetics and smoking on social media (YouTube, Facebook and Twitter) focused on nicotine addiction and smoking related disorders and referred to scientific publications. - *This dissertation*
4. University students searching for information about health, smoking or genetics on the Internet are mostly using web search engine and Forum. - *This dissertation*
5. "Moving from genetics to genomics, from single-gene disease to complex diseases, and to a better understanding of gene-environment interaction requires change in the way we think about the health of individuals and the health of the population". - *Implications of genomics for Public Health: Workshop Summary (2005)*
6. Translational research is a challenging field necessary to transfer knowledge from basic sciences into public health for the benefit of population health. - *Woolf SH. The meaning of translational research and why it matters (2008)*
7. Personalized and individualized healthcare using genomic, epigenomic and exposomic information are necessary to improve population health. - *van der Greef J. Metabolomics-based systems biology and personalized medicine: moving towards n=1 clinical trials? (2006)*
8. Genetic factors influencing nicotine addictions overlap with those influencing all other addictions (e.g. alcohol or gambling addictions). - *Agrawal A. The genetics of addiction—a translational perspective (2012)*
9. "The only 'safer' cigarette is your last one." - *Duane Alan Hahn*
10. "Knowledge is the small part of ignorance that we arrange and classify." - *Ambrose Bierce (1842 - 1913)*