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Leiden  
The Netherlands

## Genes and mediators of inflammation and development in osteoarthritis

Bos, S.T.

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Stellingen behorende bij het proefschrift:

**Genes and mediators of inflammation and development in osteoarthritis**

1. A haplotype of the IL-1 gene cluster associates to low innate IL-1 $\beta$  bio-availability and high hand ROA scores. – *This thesis*
2. Inflammation and osteoarthritis are associated bidirectional through interaction of genetic determinants and disease induced levels of inflammatory mediators. – *This thesis*
3. The remarkably consistent differential allelic expression of *DIO2* in OA cartilage, tagged by rs225014 indicates that this SNP itself is functional in it's genetic context or functional genetic variation in full LD with this SNP is present. – *This thesis*
4. Mediators of inflammation may not be suitable targets for intervention in OA because so far none show consistent association to the disease in all patients. – *This thesis*
5. Recapitulation of the hypertrophic phenotype of the chondrocyte is an important and irreversible step in the etiology of osteoarthritis. – *Goldring, M.B., Arthritis Res Ther; 2009*
6. Genetic research may aid in the identification of clear and potent personalized therapeutics to stop or slow down the OA process and would give opportunity to release major burdens in both patients and health care systems. – *Valdes A.M., Best Prac Res Clin Rheumatol; 2010*
7. The recent uprising of genome wide association scans has pushed back linkage analyses; however, the latter may make a strong comeback in the search for multiple independent rare variants within the same genetic region underlying specific traits and diseases. – *Abecasis G.R., Nat. Genet; 2002*
8. The fact that *FRZB*, *GDF5* and *DIO2* are amongst the most consistently replicated OA susceptibility loci strengthens the hypothesis that the age related disease OA may have an early developmental aspect. – *Bos S.D., Curr Opin Rheumatol; 2008*
9. There is ample need for a biomarker which can reliably aid in diagnosing and monitoring osteoarthritis. – *Hunter D.J, Curr. Drug Targets; 2010*
10. Bij linkage-analyses is het van groot belang de LOD-scores te kunnen onderscheiden van de LOD-scores.
11. Give a man a fish; you have fed him for today. Teach a man to fish; and you have fed him for a lifetime. – *Asian proverb*
12. You may say I'm a dreamer but I'm not the only one. - *John Lennon*

Steffan D. Bos