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Linkage mapping for complex traits : a regression-based approach

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Curriculum Vitae

Jérémie Lebrech was born on June 3, 1974 in Rennes (France). In 1992, he passed his Baccalaureate at Lycée J. Loth, Pontivy and subsequently undertook undergraduate studies in mathematics at the University of Rennes. During the course of his studies, he spent one year at the University of Cantábria, Santander (Spain) where he first got acquainted with the discipline statistics. After his graduation in 1997, he embarked on a Master of Science course in statistics at University College London (U.K.) in which he graduated (with Distinction) in 1998 (dissertation under supervision of Prof. Stephen Senn). He then joined the pharmaceutical industry (SmithKline Beecham Pharmaceuticals and Pfizer, R&D) where he worked on the design and analysis of clinical trials. In 2002-03, he learned the basics of clinical research and biostatistics as applied to the field of oncology at the European Organization for Research and Treatment of Cancer data center in Brussels (Belgium). Hans van Houwelingen and the late Lodewijk Sandkuijl then offered him the opportunity to start his doctoral research in the area of statistical genetics.

The work gathered in this thesis was carried out in the period 2003-2006 at the Dept. of Medical Statistics and Bioinformatics, Leiden University Medical Center as part of a European Union funded project (GenomEUtwin). During this research period, the author presented his work at several international conferences including in Odense (Denmark), Cardiff (U.K.) and Montréal (Canada).

Published and submitted chapters

Some chapters in this thesis have already been published in scientific journals, others have been submitted or are about to be submitted for publication:

Chapter 2: J. Lebec, H. Putter and J.C. van Houwelingen (2004). Score Test for Detecting Linkage to Complex Traits in Selected Samples. *Genetic Epidemiology* **27** (2), 97–108.

Chapter 3: H. Putter, J. Lebec and J.C. van Houwelingen (2003). Selection Strategies for Linkage Studies using Twins. *Twin Research* **6** (5), 377–382.

Chapter 4: J.J.P. Lebec, H. Putter, J.J. Houwing-Duistermaat and H.C. van Houwelingen. Genomic Control for Genotyping Error in Linkage Mapping for Complex Traits. Submitted.

Chapter 5: J. Lebec, H. Putter and J.C. van Houwelingen (2006). Potential Bias in Generalized Estimating Equations Linkage Methods under Incomplete Information. *Genetic Epidemiology* **30** (1), 94–100.

Chapter 6: J.J.P. Lebec, D.I. Boomsma, K. Christensen, N.G. Martin, N.L. Pedersen, M. Perola, T.D. Spector, H. Putter and H.C. van Houwelingen. Classical Meta-Analysis Applied to QTL mapping - Genomewide Linkage Scan for Height in the GenomEUtwin Project. To be submitted.

Chapter 7: J.J.P. Lebec and H.C. van Houwelingen. Score Test for Linkage in Generalized Linear Models. Accepted for publication in *Human Heredity*.