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Genetic epidemiological approaches in complex neurological disorders

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Curriculum vitae

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Curriculum vitae

Jouke- Jan was born on the 20th of October 1974 in Leiden. In 1993 he graduated from his Voortgezet Wetenschappelijk Onderwijs at the Pieter Groen College in Katwijk. In September 1993, he started his studies of Biomedical Sciences at the University of Leiden. He obtained his ‘doctoraal’ degree in 1998. During that time he did three projects related to genetic epidemiology. With Prof. Dr. P.E. Slagboom (TNO, Leiden) he did an association study, examining the relation between the PAI 4/5 polymorphism and risk of septic shock in children having severe meningococcal infection. Subsequently, he studied the relevance of the Calcium channel subunits in common forms of migraine at the departments of Neurology and Human Genetics in Leiden under guidance of Prof. Dr. R.R. Frants and Prof. Dr. M.D. Ferrari. His third project was at the Erasmus University Rotterdam, under guidance of Prof. Dr. C.M. van Duijn, and involved the effects of population stratification for some commonly tested polymorphisms. His interest led to a proposal from his additional mentor for the last two projects, Dr. L.A. Sandkuijl, which involved continuation of the work, at both Rotterdam and Leiden Universities to apply genetic epidemiologic approaches in population and family based designs. He received his Master’s Degree in Genetic Epidemiology at the Erasmus University of Rotterdam in 2001, which subsequently led to the defense of his thesis “Genetic epidemiological approaches in complex neurological disorders” in 2005. Currently, Jouke- Jan is working at the Netherlands Twin Registry under the guidance of Prof. Dr. D.I. Boomsma and Prof. Dr. E.J.C. de Geus.

List of abbreviations

AD	Alzheimer's disease
ADLTE	Autosomal dominant lateral temporal epilepsy
ADNFLE	Autosomal dominant nocturnal frontal lobe epilepsy
ADPEAF	Autosomal dominant partial epilepsy with auditory features
AIC	Akaike information criterion
APOE	Apolipoprotein E
APP	Amyloid precursor protein
BAFME	Benign adult familial myoclonic epilepsy
BFNC	Benign familial neonatal convulsions
CADASIL	Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy
CI	Confidence interval
CRV	Autosomal dominant cerebretinal vasculopathy
CT	Computed tomography
DAT	Discordant alleles test
DNA	Deoxyribonucleic acid
EEG	Electroencephalogram
EMG	Electromyogram
FAME	Familial adult myoclonic epilepsy
FBAT	Family based association test
FCTE	Cortical tremor with epilepsy
FHM	Familial hemiplegic migraine
FPEVF	Familial partial epilepsy with variable foci
GABA	G-aminobutyric acid
GDB	Genome database
GEFS+	Generalized epilepsy with febrile seizures
g-SEPs	Giant somatosensory evoked potentials
GSL	General single locus model

HERNS	Hereditary endotheliopathy with retinopathy, nephropathy and stroke
HRR	Haplotype relative risk method
HVR	Hereditary vascular retinopathy
HWE	Hardy-Weinberg equilibrium
IBD	Identity by descent
IBS	Identity by state
IHS	International Headache Society
LUMC	Leiden University Medical Center
MA	Migraine with aura
MA/MO	Mixed MA and MO migraine type
MERRF	Mitochondrial encephalomyopathy with ragged-red-fibres
MO	Migraine without aura
MRI	Magnetic resonance imaging
NINCDS-ADRDA	National Institute of Neurological and Communicative Disorders and Stroke and the Alzheimer's Disease and Related Diseases Association
OR	Odds ratio
PCR	Polymerase chain reaction
PDT	Pedigree disequilibrium test
QTLs	Quantitative trait loci
RC-TDT	Reconstruction combined-transmission disequilibrium test
SCA	Spinocerebellar ataxia
SDT	Discordant sibship test
SEP	Somatosensory evoked potentials
SNP	Single nucleotide polymorphism
S-TDT	Sib transmission disequilibrium test
TDT	Transmission disequilibrium test

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