

# Advanced Workshop on Methodology for Gene Finding and Genetic Epidemiology

Egmond aan Zee, The Netherlands

October 4-8, 2004

The advanced workshop will be held in Egmond aan Zee, The Netherlands, October 4 – 8, 2004. The focus is on advanced genetic epidemiology as well as genetic linkage and association analysis. Software packages used during the course are Mx (<http://www.vcu.edu/mx>) and MERLIN (<http://www.sph.umich.edu/csg/abecasis/Merlin>). Participants are expected to have experience in structural equation modeling, preferably using twin data. A preliminary program is given below. Hands-on analysis will be emphasized using networked notebook computers.

The workshop is sponsored by the GenomEUtwin (<http://www.genomeutwin.helsinki.fi>). If you belong to a group associated with GenomEUtwin, please state so at the registration form. A limited number of places are available for non-GenomEUtwin related participants.

## Faculty:

Prof dr Michael Neale (scientific director)	VCU, Richmond, US & VUA, The Netherlands
Dr Danielle Posthuma (local organizer)	VUA, The Netherlands
Prof dr. Nick Martin	QIMR, Australia
dr. David Duffy	CSG, MI, US
dr. Goncalo Abecasis	VCU, Richmond, US,
Prof dr. Lindon Eaves, dr. Hermine Maes	University of Edinburgh, UK
dr. Peter Visscher	Boston University, MA, US
dr. Shaun Purcell	Oxford, UK
dr. David Evans, Ben Neale	VUA, The Netherlands
prof dr Dorret Boomsma	dr. Caroline van Baal, dr Meike Bartels
dr. Conor Dolan	UVA, The Netherlands
dr. Hein Putter	LUMC, The Netherlands
dr. Frühling Rijdsdijk	SGDP Centre, London, UK

The registration fee is Euro 350.00 for academic applicants (including postdocs and PhD students) and Euro 550.00 for non-academic participants, payable by August 1, 2004 to account 449.6374, to the order of "VU, Faculteit FPP, Van der Boechorststraat 1, 1081 BT Amsterdam, The Netherlands", stating "kpl. 250 6203, fee workshop 2004".

Accommodations are being reserved at Hotel Zuiderduin, Egmond aan Zee. Prize for 5-nights' arrangement is Euro 376.50 (Sunday to Friday), on the basis of a single room, or Euro 316.50 pp on the basis of a double room.

An online registration form is available at <http://www.psy.vu.nl/mxbib/webform.php>

Registration deadline is August 1, 2004. Further details on local arrangements, registration, or the program can be accessed through the announcement section on the website of the Mx Scripts Library (<http://www.psy.vu.nl/mxbib>) or can be requested from Danielle Posthuma ([danielle@psy.vu.nl](mailto:danielle@psy.vu.nl)) or the workshop secretary, Natascha Stroo ([n.stroo@psy.vu.nl](mailto:n.stroo@psy.vu.nl)).

Financial support for this workshop is provided by the European Commission under the programme 'Quality of Life and Management of the Living Resources' of 5th Framework Programme (no. QLG2-CT-2002-01254).

P: Practical. Lunch everyday from 12:30-13:30. 30 minute morning and afternoon coffee break at 10:30 and 15:00.

<b>Monday, 4 October 2004 INTRODUCTION</b>		
9:00-10:30	Introduction: Genetic Theory	
11:00-11:30	Introduction: Computer System	P
11:00-12:30	Genotyping and IBD estimation	P
13:30-15:00	Linkage: Principles & Power	
15:30-17:00	QTL Linkage Analysis in Sibships	P
<b>Tuesday, 5 October 2004 LINKAGE ANALYSIS</b>		
9:00-10:30	Bioinformatics	
11:00-12:30	Linkage analysis: mixture distributions	P
13:30-15:00	Sample heterogeneity / Selected samples	P
15:30-17:00	Two locus models (GxE, QxE )	P
<b>Wednesday, 6 October 2004 ASSOCIATION ANALYSIS</b>		
9:00-10:30	Association: Principles & Power	
11:00-12:30	Family Based Association Studies	P
13:30-15:00	Haplotype analysis	P
15:30-17:00	Typed and untyped individuals	P
<b>Thursday, 7 October 2004 MULTIVARIATE ANALYSIS</b>		
9:00-10:30	Multivariate Linkage Analysis	
11:00-12:30	Measurement Invariance	P
13:30-15:00	Multivariate Factor Continuous / Categorical	P
15:30-17:00	Comorbidity / Causation	P
<b>Friday, 8 October 2004 GENETIC EPIDEMIOLOGY</b>		
9:00-10:30	Developmental Change / Growth Curves	P
11:00-12:30	Assortative mating & G-E covariance	P
13:30-15:00	Simulation	
15:30-16:30	Closure	
18:00-22:00	Dinner	