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COLLABORATORS

Paola Cano Revilla and Gerardo Ravassa Escobar

REGISTRATION:

Secretariat of IUICP 91 885 43 86
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Registration fee:

IUICP members: free admission
Others: 50 euros

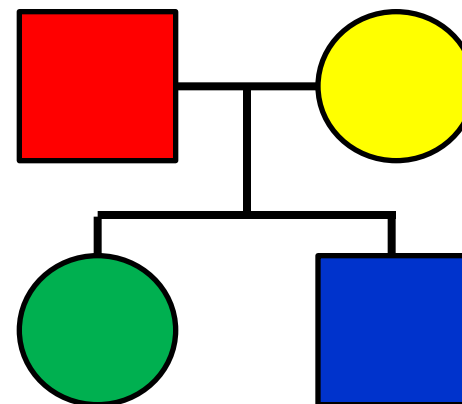
PLACE:

Computer Lecture Room - Faculty of Law
Universidad de Alcalá (UAH)
Libreros, 27. 28802-Alcalá de Henares
(Madrid)
www.uah.es/iuicp



«FAMILIAS» AND FORENSIC STATISTICS

Thore Egeland, Manuel García Magariños and Daniel Kling



DIRECTOR

LOURDES PRIETO SOLLÁ
Comisaría General de Policía Científica

October 8-9, 2012

iuicp

INSTITUTO UNIVERSITARIO DE INVESTIGACIÓN EN CIENCIAS POLICIALES

Description

The intention is to offer a practical workshop in family genetics. The emphasis will be on the statistical evaluation of cases, possibly involving complex family relationships. Examples include paternity cases, disease victim identification and cases possibly involving incest. Basic theory will be reviewed, including models for likelihood ratios, mutations, theta-corrections and silent alleles. Mathematical details will be kept to a minimum. Some selected topics involving haplotypic data and linked markers will also be discussed.

[Familias](http://familien.name) is a program for computing probabilities for pedigrees. The likelihoods of different pedigrees can be computed, and the output includes the likelihood ratios (the "Paternity Index"). There will be practical hands-on exercises based on Familias 2.0 and exercises and data sets are available now from <http://arken.umb.no/~theg/alcala/>

Most of the lectures will be in English, but there will be Spanish summaries and it will also be possible to discuss in Spanish with one of the lecturers (Manuel). Participants are encouraged to discuss problems related to their own case work.

PROGRAM

Familias 2.0, freely available from <http://familien.name>, will be used for most exercises and participants are advised to try the program before doing the course.

October 8, 2012

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| 09:00 – 10:00 | Review of basic forensic genetics. Principles. LR for simple cases. |
| 10:00 – 11:15 | Introduction to Familias. Demo. |
| 11:15 – 11:45 | Coffee break |
| 11:45 – 12:45 | Familias exercises. |
| 12:45 – 13:30 | Non-standard cases. Complex relationships |
| 13:30 – 14:00 | Summary in Spanish. |
| 14:00 – 15:30 | Lunch |
| 15:30 – 17:00 | Familias exercises. |
| 17:00 – 18:00 | Discussion (Spanish/English). More questions, contributions from participants. |

October 9, 2012

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|---------------|---|
| 09:00 – 11:15 | Mutation. |
| 11:15 – 11:45 | Coffee break |
| 11:45 – 12:45 | Familias exercises |
| 12:45 – 13:30 | Theta correction. Silent alleles |
| 13:30 – 14:00 | Summary in Spanish |
| 14:00 – 15:30 | Lunch |
| 15:30 – 17:00 | The Bayesian alternative. Linked markers. Haplotypic evidence (mtDNA, Y, X) |
| 17:00 – 17:30 | Demo of FamLink software, freely available from http://famlink.se/ |
| 17:30 – 18:00 | Discussion (Spanish/English). Summary. |

SPEAKERS

- **Thore Egeland.** *Department for Chemistry, Biotechnology and Food Science. Norwegian University of Life Sciences.*
- **Manuel García Magariños,** *Departamento de Matemáticas, Facultad de Informática, Universidade da Coruña*
- **Daniel Kling.** *Department for Chemistry, Biotechnology and Food Science. Norwegian University of Life Sciences.*