



Genetisti Forensi Italiani

STATISTICAL METHODS IN FORENSIC GENETICS

Bologna, June 6–7, 2016

PROGRAM

Final version June 8 2016

Course venue: Camplus BONONIA (<http://www.camplus.it/residenze-universitarie/bologna/bononia>)

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Preparations for the exercises: Participants should bring a laptop with the following freely available software installed (preferably the indicated last versions): Familias 3.1.9.4, <http://familias.no/english/download/>, FamLinkX 2.4.1 (or 2.3) http://famlink.se/fx_index.html, and LRmix Studio 2.0.1 <http://lrmixstudio.org/>. Assistance for installation will be provided at the workshop, if needed. Note that installation is typically only possible if you are administrator on your laptop. Exercises, solutions and input files are given below in connection with the exercises in the end of day of the course.

Monday 6

09.00 – 09.15

Prof.ssa Susi Pelotti

Welcome of the GeFI's President, contact person for EuroforGen–NoE

09.15 – 10.30

Dott.ssa Federica Alessandrini

[Paternity and kinship analysis](#) (*In Italian*): introduction, basic methods and principles, Paternity Index, Likelihood Ratio, W, Bayes theorem, Theta correction, mutations, silent alleles, complex pedigrees.

10.30 – 11.00 *COFFEE BREAK*

11.00–13.00

Prof. Thore Egeland

<http://familias.no/english/download/>), [complex pedigrees](#), [mutations, theta correction](#), and [import from GeneMapper](#).

13.00 – 14.00 Lunch

14.00 – 15.45

There: [Basics of FamLinkX](#) (available from http://famlink.se/fx_index.html)

15.45 – 16.15 *COFFEE BREAK*

16:15 – 18:00

Exercises with Familias 3 ([Exercises](#) 2.1, 2.2, ...) and FamLinkX ([Exercises](#) 4.12, 4.13,...). The participants must bring a laptop with Familias 3 and FamLinkX installed. The exercises are from the book [Relationship Inference with Familias and R](#) by Egeland, Kling, and Mostad, but the required material (exercises, solutions, input files) [are freely available from familias.name/book.html](http://familias.name/book.html). Discussion of exercises.

Tuesday June 7

9.00 – 9.45

Dott.ssa Carla Bini

[Mixtures: definition](#) (*in Italian*), ISFG Recommendation, Clayton's rules, interpretation (*In Italian*)

09:45 – 10:30

There: [Mixtures](#). Statistics

10:30 – 11:00 *COFFEE BREAK*

11:00 – 13:00

MsC Oskar Hansson

[Introduction to LRmix Studio](#). (Available from <http://lrmixstudio.org/>)

13.00 – 14.00 Lunch

14.00 – 15.45

Oskar: [Statistical models for mixture interpretation](#). [Major minor case](#).

15:45 – 16:15 *COFFEE BREAK*

16:15 – 18:00

[STRvalidator](#) (Oskar Hansson)

Exercises and discussion (participants must bring laptop with LRmix Studio installed) are available from [Exercises](#) 1 and 2. Input files for Exercise 2: [Rape2.zip](#). Files for [all exercises](#) (12.2 Mb). [Solutions](#), [comments](#) to the exercises. Discussion of exercises.