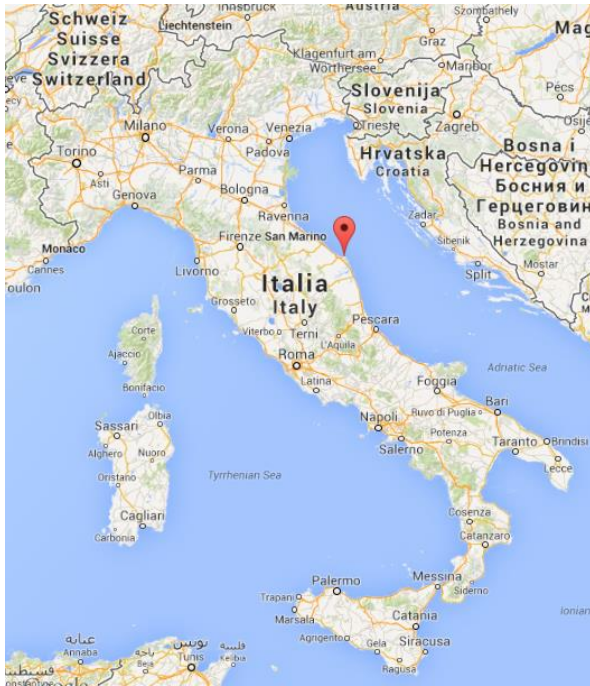


Statistical methods in forensic genetics

Experience from Ancona course - Italy

Federica Alessandrini
Institute of Legal Medicine
Università Politecnica delle Marche

Experience from Ancona course



- Organized with the support of **GeFI** group (the Italian working group of the ISFG)
- April 7-9 2014
- Hotel «Domus Stella Maris», a room set up for the course (wi-fi connection and sockets for all participants)



SCHEDULE

February 2014

- E-mail to Daniel Kling and Oskar Hansson to invite them as teachers for the course
- E-mail to GeFI members and Italian ISFG members for the announcement of the course

March 2014

- Registration deadline March 9 2014

Registration fee: 100€ (course, lunch and coffee break)

1 person per lab

31 PARTICIPANTS

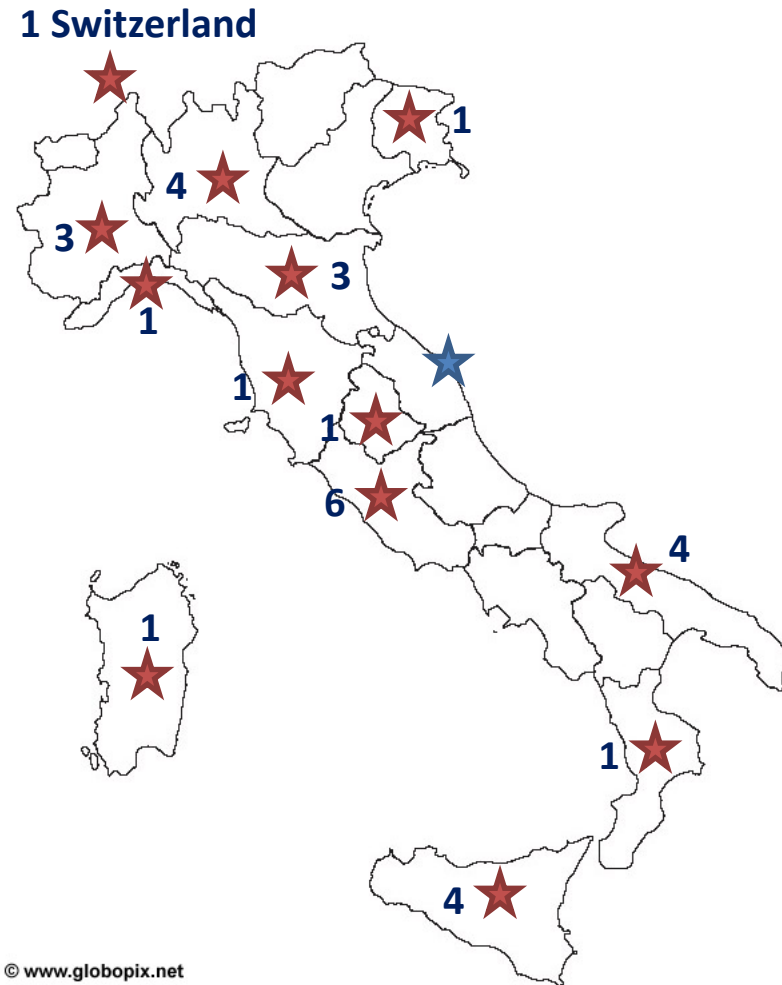
(very enthusiastic and eager to learn)

- **16** from Institutes of Legal Medicine (Academic Labs)
- **9** from private labs
- **5** from Italian Police forces:

4 from Carabinieri



2 from Polizia



TOPICS

6.30 pm

7th April (9 am – ~~5.30 pm~~)

Kinship analysis (Federica Alessandrini)

Principles, paternity index, LR, W, Bayes theorem, Theta correction, mutation, silent alleles, complex pedigrees.

Familias 3 (Daniel Kling)

Simulations, DVI module and mutation models.
Demonstration of the computer programme Familias 3.0.
Exercises and discussion.

6.30 pm

8th April (9 am – ~~5.30 pm~~)

Linked markers (Daniel Kling)

FamLink and FamLinkX.
Exercises and discussion.

DNA mixtures (Federica Alessandrini)

LT-DNA Introduction to R, forensim and LRmix (Oskar Hansson)

8th April (9 am – 12.30)

Forensim and LRmix (Oskar Hansson)

Exercises and discussion.

REQUESTS DURING THE COURSE

- Creation and editing of input files for the softwares.
- Estimating drop in and drop out probabilities.
- How to make LR understandable for the court?
- Is there a LR value above which we can be “certain” that the suspect contributed to the stain?



QUESTIONNAIRE

- Are the topics discussed useful for your work?

Yes, we needed such a course.

- Have been the arguments adequately addressed?

Yes, they have.

- How do you perform statistical calculations?

Manually or by **excel spreadsheets** (if not too complicate).

Someone uses Familias 2, LRmix, DNAMix, Patcan, DNAMix,

Hugin

- Any suggestion?

SUGGESTIONS FROM PARTECIPANTS

- Periodic refresher courses with exercises, cases from participants and result discussion.
- Regular supply of exercises and sharing of the results and difficulties.
- Collaborative exercises and proficiency test on forensic statistics.
- Validation.
- Basic course for the judges.



***well-deserved
amusing
moments after a
hard work!!!!***

