

# EUROPEAN DNA PROFILING GROUP (EDNAP) MEETING

Linköping, Sweden

24 April 2012

Host: Ricky Ansell  
Chairman: Niels Morling.

A list of participants is attached.

## Welcome

Ricky Ansell welcomed members to Linköping.

## Update on exercises and other activities

*mRNA exercises no 3, 3a and 4*

Cordula Haas

The combined results of mRNA exercise 3 and 3a were recently submitted to FSI: Genetics.

Cordula Haas presented the results obtained in the laboratories *mRNA exercise no 4* (presentations attached). A total of 18 laboratories have sent data. The aim of the exercise was to identify menstrual blood on stains by means of mRNA. Two triplexes for menstrual blood and one triplex for house keeping genes were used. The results were good. The group decided to wait with publication until the results of exercise 5 are available.

*mRNA exercises no 5*

Cordula Haas

Cordula Haas presented preliminary data on detection of vaginal secretion/cells by means of 4 human mRNA markers in a quadruplex. Furthermore, a triplex with bacterial mRNA markers was presented. It was decided to accept an offer from Cordula Haas to investigate mRNA for identification of vaginal secretion/cells. Cordula Haas will send out 8 mock casework samples (vaginal, non-vaginal, non-human), dilution series and PCR primers. Participants can investigate own samples. The samples will be circulated in July 2012. Participants should send results in September 2012 (see attachment).

*EMPOP*

Walther Parson

Walther Parson gave an update on EMPOP. The new release (R7) with 17,321 haplotypes was published 25 April 2012. Walther Parson gave a summary of the EMPOP publications in 2011 and 2012. A paper by Doron Behar and colleagues suggesting a new mtDNA reference sequence based on the assumed phylogenetic root of human mtDNA was discussed. More detailed discussion will take place at the "DNA in Forensics 2012" meeting that will take place 6-8 September 2012 in Innsbruck (presentation attached).

*ENFSI DNA Working Group*

Ingo Bastisch

Ingo Bastisch reported on the activities of the various ENFSI subgroups (presentation attached).

*ISFG Commission on DNA of limited quality and/or quantity*

Niels Morling

The commission is working on the fine details on the manuscript and hope to be able to submit a manuscript soon.

### *Australia*

John Scheffer

John Scheffer gave an update from Australia and the laboratory in Melbourne (two presentations attached).

### *Euroforgen*

Magdalena Bogus

Magdalena Bogus gave an update on the EUROFORGEN Network of Excellence project that started 1 January 2012 (presentation attached).

### *NIST*

Peter Vallone

Peter Vallone gave an update on the work at NIST (presentation attached).

### *Prediction of eye colour – status*

Manfred Kayser

Manfred Kayser presented the present status of prediction of eye colour by DNA investigations (presentation attached).

### *Collaborative exercise on prediction of eye colour by DNA?*

Manfred Kayser

Manfred Kayser offered to organise a collaborative exercise for the prediction of eye colour by means of the IrisPlex (see the last part of the attached presentation). The group accepted the offer. The details of the exercises are to be agreed. Briefly, the exercise will include SNP typing with a 6-SNP-plex, PCR multiplex amplification, 6-plex SBE extension with SNaPshot, capillary electrophoresis and detection with multicolour fluorescence. The organising laboratory will send out critical reagents and samples in September 2012. The results are to be returned until December 2012. The organising laboratory offers software for interpretation of the results and prediction of eye colour.

### **Education in forensic genetics**

Niels Morling

A 4 days course with two tracks will be held in Copenhagen, 25-28 June 2012.

Preliminary programme:

Course 1: Interpretation of complex STR Results, 4 days (organizer: Peter Gill)

Course 2: Statistical methods in relationship testing, 2 days (organizer: Rolf Fimmers)

Course 3: Advanced topics in STR DNA analysis, 2 days (organizer: Mike Coble).

For details: Please visit <http://www.welcomehome.dk/Default.aspx?ID=2191>.

### **Any other business**

There was no other business.

### **Next EDNAP meeting**

The next EDNAP meeting will be organised by EDNAP, because the next meeting of the ENFSI DNA Working Group has been cancelled. The place and time for the next EDNAP meeting has not been decided. The meeting will most likely be held in October 2012.

### **Closing of the meeting**

The meeting closed with sincere thanks to Ricky Ansell and his colleagues at the laboratory in Linköping.

### **Attachments**

- List of participants
- Presentations by
  - Cordula Haas: mRNA exercises no 3, 3a and 4
  - Walther Parson: EMPOP report - missing

- Ingo Bastisch: ENFSI report
- Magdalena Bogus: EUROFORGEN-NoE
- Peter Vallone: NIST report
- Manfred Kayser: IrisPlex