

# Scientific programme:

Detection of chromosomal aberrations in multiple myeloma using simultaneous immunofluorescent labelling of malignant plasma cells and fluorescent in situ hybridization (cig FISH)

**9:00 – 9:15 Chairman's introduction**  
**Roman Hajek, Brno, Czech Republic**

**9:15 – 10:30 Theoretical part of the workshop**

9:15 Overview - „Genetic lesions and prognosis in multiple myeloma“.  
**Johannes Drach, Vienna, Austria**

9:35 Epigenetic approaches in multiple myeloma  
**Eva Bartova, Brno, Czech Republic**

9:55 Experience of Czech Myeloma Group  
**Zuzana Zemanova, Praha, Czech Republic**

10:15 Technique of Light chain-specific immunofluorescent staining of clonal plasma cells and FISH analyses (cig FISH)  
**Hana Filkova, Brno, Czech Republic**

**10:30 – 10:45 Coffee break**

**10:45 – 12:30 Practical part of the workshop (part I)**  
**Petr Kuglik, Hana Filkova, Renata Kupska, Brno, Czech Republic**

- 1) Fixation of bone marrow for immunofluorescent labelling of plasma cells, slide preparation
- 2) Sample slides denaturation
- 3) Incubation at 37°C with I. antibody (anti-IgL, anti-IgK)

**12:30 – 13:45 Lunch break**

**13:45 – 16:45 Practical part of the workshop (part II)**  
**Petr Kuglik, Pavel Nemeč, Romana Zaoralova, Henrieta Greslikova, Czech Republic**

- 4) Incubation at 37°C with II. antibody (anti-goat)
- 5) Washing, dehydration, air drying of slides
- 6) FISH procedure - DNA probe preparation, hybridization at 37°C
- 7) Post-hybridization washing, antifade mounting, and scoring of slides prepared one day before
- 8) Examination of abnormal signal pattern with fluorescence microscope, acquiring of FISH images and image analyses  
\*also continues during the steps 4 - 7

**16:45 – 17:00 Chairman's conclusion**  
**Roman Hajek, Brno, Czech Republic**