

COST- MELUSYN *Joint Meeting*

March 9th - 12th 2010 - Paris



Action CM0603
Free Radicals in Chemical Biology

Réseau



Biologie des radiations

Biomolecular Damages

Induced by Low and High Energy Radiations

Full day MELUSYN -COST Session

Friday 12 March 2010

9H00 - 18H00

Amphithéâtre du Campus Boucicaut (Bât. 10)

140 rue de Lourmel

75015 Paris

Métro Boucicaut ou Lourmel (Ligne 8)

Organizers

Chantal Houée-Levin (COST) – Sandrine Lacombe, Jean-Marc Constans, Alain Touati (MELUSYN Network)

MELUSYN – ARMIR chez Collège de Polytechnique, 23 rue Taitbout 75009 Paris www.armir.fr



8H45 **Welcome**

9h00 **Introduction**

Yann A. Gauduel (*MELUSYN*) - Chrys Chagilialoglu (*COST*)

9h30

Part 1

Chairman : B. Marciniak (Poland)

**Biomolecule damage induced by synchrotron radiation
in the soft X-ray regime**

C. Nicolas (*Synchrotron SOLEIL*)

**Synergistic interaction between low dose radiation
and secondary plant compounds**

G. Bauer (*Freiburg University, Germany*)

**OH-induced oxidation of Met-Met dipeptides:
differences and similarities between cyclic and linear peptides**

K. Bobrowski (*Warsaw University, Poland*)

- Coffee break 30 min -

11h30

Part 2

Chairman : C. Ferreri (Italy)

**Free radical effects on metabolism of patients treated with chemo,
radio and antiangiogenic therapies**

J.M. Constans (*CHU Caen*)

**Role of silver and gold nanoparticles in the DNA damage
induced by ionizing radiation in aqueous solutions**

K.K.K Sharma (*Université Paris Sud*)

13h00

- LUNCH -

14h30

Part 3

Chairman : M. Robert (France)

The LET effect from X-rays to heavy ions

G. Baldacchino (CEA Saclay)

Mechanisms of radioresistances of the bacteria *Deinococcus radiodurans*

S. Sommer (Université Paris Sud)

Discussion

- Coffee break 30 min -

16h30

Part 4

Chairman : B. Parsons (UK)

The microbeams : tools for biology in general and radiobiology in particular

H. Kodja (CEA Saclay)

Simulation of HO_2/O_2^- production by water radiolysis:

Influence of various parameters

M. Beuve (LIRIS, Villeurbanne)

Discussion and conclusion

18h00

End of the meeting