



CONFERENCE/WORKSHOP

Innovative Therapies for Red Cell and Iron related Disorders

April 15-18, 2010 / Cascais, Portugal

Organizing Committee:

Clara Camaschella, Eliane Gluckman, Philippe Leboulch, Carole Beaumont, Mohandas Narla, Yves Beuzard

Invited speakers:

Christopher Baum (Hannover), Carole Beaumont (Paris), Françoise Bernaudin (Creteil), Yves Beuzard (Fontenay), Clara Camaschella (Milano), Francois-Loic Cosset (Lyon), Ioav Cabantchick (Jerusalem), Ivana de Domenico (Salt Lake City), Frederic Galacteros (Creteil), Eliane Gluckman (Paris), Frank Grosveld (Rotterdam), Keith Humphries (Vancouver), Philippe Leboulch (Fontenay/Boston), Franco Locatelli (Pavia), Narla Mohandas (New-York), Elizabeta Nemeth (Los Angeles), Stuart Orkin (Boston), Marie-Paul Roth (Toulouse), Miguel Soares (Lisbon), Pierre-Louis Tharaux (Paris), Swe Lee Thein (London)

Objective :

- 1) Stimulation of research on innovative therapies of red cell and iron disorders, from targets to bed-side, including preclinical and clinical trials.
- 2) Presentation of original results (invited speakers, selected oral presentations and posters).
- 2) Cooperation between clinicians and scientists, in order to define new targets, to develop and evaluate experimental therapies.

Program

Thursday, April 15th 2010

20h00-21h00: KEYNOTE LECTURE I

The therapeutic potential of iPS cells

pending

Friday, April 16th 2010

8h30-10h30: SESSION I: HEMATOPOIETIC STEM CELL (HSC) THERAPIES

Chair: E. Gluckman (Paris)

Allogeneic BMT in Sickle cell anemia
BMT versus CB-HSC in hemoglobinopathies
New Trends in HSC therapies
Panel Discussion

F. Bernaudin (Creteil)
E. Gluckman (Paris)
F. Locatelli (Pavia)

Selected oral presentations (15 min each)

10h30-11h00: Coffee break

11h00-13h00: SESSION II: FROM HSC TO ERYTHROCYTE

Chair: F. Grosveld (Rotterdam)

Expansion of HSCs
The molecular switching in erythroid differentiation
Programming the hemoglobin genes for therapies
Overcoming insertional adverse events of
integrating gene vectors

K. Humphries (Vancouver)
S. Orkin (Boston)
F. Grosveld (Rotterdam)
C. Baum (Hannover)

13h00-15h00: Lunch

15h00-17h30: SESSION III: GENE THERAPY

Chair: P. Leboulch (Fontenay/Boston)

Selected oral presentations (15 min each)

Gene therapy of hemoglobin disorders
Design of lentiviral Vectors

P. Leboulch (Fontenay/Boston)
F-L. Cosset (Lyon)

Selected oral presentations (15 min each)

17h30-18h00: Coffee break

18h00-19h00: POSTER SESSION I: BIOTHERAPIES

Saturday, April 17th 2010

8h30-10h30: SESSION IV: IRON REGULATORY PATHWAY FOR THERAPIES

Chairs: C. Camaschella (Milano)

Heme and Iron recycling
Role of Hemojuvelin in iron deficiency and overload
The essential role of BMP6 in hepcidin regulation

C. Beaumont (Paris)
C. Camaschella (Milano)
M.P. Roth (Toulouse)

Selected oral presentations (15 min each)

10h30-11h00: Coffee break

11h00-13h00: SESSION V: THE HEPCIDIN EFFECTOR PATHWAY FOR THERAPIES

Chair: C. Beaumont (Paris)

Hepcidin agonists and antagonists	E. Nemeth (Los Angeles)
Targeting the hepcidin binding site of ferroportin	I. De Domenico (Salt Lake City)
Relocating misdistributed iron by chelators	I. Cabantchick (Jerusalem)

Selected oral presentations (15 min each)

13h00-15h00: Lunch

15h00-17h30: SESSION VI: INNOVATIVE THERAPIES FOR RED CELL DISORDERS (I)

Chair: M. Narla (New-York)

Erythrocyte acting therapies	Y. Beuzard (Fontenay)
Gene active therapies	S.L. Thein (London)
EPO therapy in hemoglobin disorders	F. Galacteros (Creteil)

Selected oral presentations (15 min each)

17h30-18h00: Coffee break

18h00-19h00: POSTER SESSION II: IRON AND ERYTHROCYTE TARGETING THERAPIES

Sunday, April 18th 2010

9h00-10h00: SESSION VII: INNOVATIVE THERAPIES FOR RED CELL DISORDERS (II)

Chair: F. Galacteros (Creteil)

Vascular acting therapies in Sickle cell disease	P-L. Tharaux (Paris)
Heme oxygenase protects against red cell disorders	M. Soares (Lisbon)

10h00-10h30: Coffee break

10h30-11h30: KEYNOTE LECTURE II

Erythrocyte targeting for therapies in malaria	M. Narla (New-York)
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End of the meeting