

Preliminary Program – Workshop on Placenta Derived Stem Cells

March 23, 2007

9:30 am **Welcome Remarks by Dr. Enrico Zampedri, General Director of the Fondazione Poliambulanza Hospital**

10:00 am **Ornella Parolini**
Workshop aims. Introduction on placenta-derived stem cells.

Session I:

*Surface phenotype, gene expression and differentiation potential
of cells isolated from the placenta*

10:30 am

Norio Sakuragawa, Y Yokoyama

"Isolation and characterization of side population cells from human amnion mesenchyme cells: Valuable somatic cell-derived stem cells of human origin"

11:00 am

Hideaki Nakajima

"Identification of stromal cell-derived factor and its application for mesenchymal stem/bone marrow stromal cell-mediated hematopoietic stem cell expansion"

11:30 am

Guido Stadler

"Characterization and differentiation of human amniotic epithelial and mesenchymal cells"

11:45 am

Simone Hennerbichler

"Amniotic membrane – *in vitro* and *in vivo* evaluation of a viable biomaterial"

12:00 –1.00 pm Discussion

1:00 pm *Lunch*

2:30 pm

Gerard Wulf

"Progenitor cells from human placenta: differentiation potential"

3:00 pm

Xiaohong Zhang, Koichi Igura and Tsuneo A. Takahashi

"Successful immortalization of mesenchymal progenitor cells derived from human placenta"

3:30 pm

Andreas Zisch

“Study of amnion cell plasticity in two- and three-dimensional culture”

4:00 pm *Coffee break*

4:30 pm

Round table discussion: “One or many cells? Can we build a consensus on which cell should be called a placenta-derived stem cell? What are its more reliable markers? What are the pros and cons of different isolation techniques?”

7:30 pm

Dinner in Brescia's Historic Centre

March 24, 2007

Session II:

Placenta-derived stem cells: Functional characteristics and prospects for clinical use

9:00 am

Stephen Strom

“Amnion Derived Stem Cells: stem cell features and clinical potential”

9:30 am

Toshio Nikaido

“The application of amniotic cells to regenerative medicine”

10:00 am

Daniel Surbek

“Neurogenic potential of placenta-derived stem cells”

10:30 *Coffee break*

11:00 am

Tsuneo A. Takahashi, Xiaohong Zhang, Koichi Igura

“Mesenchymal cells derived from cord blood and chorionic villi of human placenta: allogeneic cell sources for cartilage tissue engineering”

11:30 am

V. Sankar

“Amniotic epithelial cell transplantation for spinal cord injury repair”

12:00 pm

Ning Mao

“Developmental dynamics and hematopoietic regulation of mesenchymal stem cells”

12:30 pm

Ornella Parolini

“ The immunological features of placenta-derived mesenchymal cells”

1:00 pm Lunch

Round table discussion with a guiding panel including: a scientist, an ethicist and a biobanking coordinator : How far are we from clinical application? What are the more likely applications? What preclinical models are needed? How should biobanking be carried out? What safety, legal and ethical issues do we need to address?

2:30 – 4 pm Networking

4:00 pm

Trip to Lake Garda

Conclusion of the workshop with a dinner on the lake