The Skin: from Melanocyte to Melanoma.
Theoretical and Pratical Course

Scientific program

23rd March 2007

h. 8.00/8.45 Registration

Friday morning session at EIO: "Melanocytes and Melanoma"
(h. 8.45/13.05)

h. 8.45/9.15
Welcome and opening remarks
Luisa Lanfrancone, IFOM-IEO-Campus, Milan, Italy

h. 9.15/9.55 LECTURE:
Structure of the skin and its adnexa: ultrastructural characteristics and correlative analysis of melanosomes during biogenesis
Carlo Tacchetti, IFOM/DiMeS, Genoa, Italy

h. 9.55/10.35 LECTURE:
Genetics and biology of pigmentation: the odd story of ocular albinism type 1
Maria Vittoria Schiaffino, HSR, Milan, Italy

h. 10.35/11.15 LECTURE:
Update: current treatment issues in melanoma
Alessandro Testori, EIO, Milan, Italy

h. 11.15/11.35 Coffee break

h. 11.35/13.05 INTRODUCTORY LECTURE & PRACTICAL DEMONSTRATION:
Analysis of skin sections under the microscope: identification of its various cell types under normal and pathological conditions
Giovanni Mazzarol, EIO, Milan, Italy

h. 13.05/14.00 Lunch

Friday afternoon session at EIO: "Engineering the skin: in vitro cultures of melanocytic cells"
(h. 14.00/18.50)

h. 14.00/14.40 LECTURE:
Biology of melanoma progression
Monica Rodolfo, INT, Milan, Italy

h. 14.40/15.20 LECTURE:
The use of nanostructured TiO2 film to mediate efficient and safe retroviral gene transduction in primary adult human melanocytes
Roberta Carbone, Tethis, Milan, Italy

h. 15.20/16.00 LECTURE:
Nutritional requirements of Mammalian Cells in Culture: Design and Optimization of the Cell Culture Medium
Soverin Karmiol, Invitrogen, Carlsbad, USA

h. 16.00/16.20 Coffee break

h. 16.20/17.50 INTRODUCTORY LECTURE & PRACTICAL DEMONSTRATION:
Purification and expansion of primary human melanocytes and of melanocytic tumor derived cells
Giuseppina Giardina, IFOM-IEO CAMPUS, Milan, Italy

h. 17.50/18.50 ROUND TABLE DISCUSSION

Night together

24th March 2007

Saturday morning session at IFOM-IEO Campus: "Novel technologies"
(h. 9.00/12.50)

h. 9.00/9.40 LECTURE:
Gene expression profiling using gene arrays
Keith Hoek, University Hospital of Zürich, Zürich, Switzerland

h. 9.40/10.20 LECTURE:
Novel technologies for melanocyte analysis
Eirikur Steingrimsson, University of Iceland, Reykjavik, Iceland

h. 10.20/10.40 LECTURE
Characterization of visual function in albino rodents
Enrico Surace, TIGEM, Naples, Italy

h. 10.40/11.00 LECTURE
AAV-mediated gene transfer in models of albinism
Alberto Auricchio, TIGEM, Naples, Italy

h. 11.00/11.20 Coffee break

h. 11.20/12.50 INTRODUCTORY LECTURE &PRACTICAL DEMONSTRATION:
Preparation of TMA from normal and pathological samples
Paolo Nuciforo, IFOM-IEO-CAMPUS, Milan, Italy

h. 12.50/14.00 Lunch

Saturday afternoon session at IFOM-IEO Campus: "Mouse models"
(h. 14.00/17.30)

h. 14.00/14.40 LECTURE:
Mouse melanoma models to cell culture
Lionel Larue, Institut Curie, Paris, France

h. 14.40/15.20 LECTURE:
The molecular link between development and melanoma
Colin Goding, Marie Curie Research Institute, Oxted, UK

h. 15.20/15.40 Coffee break

h. 15.40/16.20 LECTURE:
In vivo and in vitro melanocyte/melanoblast migration
Bernard Wehrle-Haller, Centre Médical Universitaire, Genève, Switzerland

h. 16.20/17.00 LECTURE:
Role of Otx genes in the neural differentiation in vivo and in vitro in ES cells
Antonio Simeone, CEINGE Biotecnologie Avanzate, Naples, Italy

h. 17.00/17.30 Closing remarks

End of the course