

## 9th Pezcoller Symposium

### THE BIOLOGY OF TUMORS

Rovereto,(Italy) Sala Spagnoli

June, 4 - 7 1997

#### Focus and Goals of this Symposium

*The program will consist of presentations concerned with the genetic mechanisms underlying heterogeneity of tumor cell populations and tumor cell differentiation: these phenomena are intimately involved with the development of resistance to treatments on the one hand, and the development of metastasis on the other hand. Tumor cells are closely interacting with host cells and cell products having different functions and these interactions play an important role in the biology of the tumor.*

*In the Symposium, interactions between tumor cells and cells of host defense mechanisms will be discussed with particular emphasis on the molecular basis of tumor recognition by the immune system. Interactions between cells will also be discussed with reference to molecular mechanisms of cell regulation as they are affected by or implemented through these interactions. Additional phenomena involving cell interactions which are of critical importance to the biology of tumors are the molecular and cellular mechanisms of tumor vascularization and these will also be discussed: Without suitable angiogenesis, the tumor cannot grow and metastasize. Angiogenesis also provides a potential site of therapeutic intervention and this makes it even more important to understand the mechanisms underlying it.*

*Each of the phenomena concerned with cell regulation and cell interactions are determined by the activated genes through the appropriate and timely mediation of gene products. It is becoming increasingly important to develop methodologies which would allow to measure differentially genes and gene products and thus validate many of the mechanisms of control currently proposed.*

*As it was the case with previous Symposia, equal time will be allotted to presentations and discussions, thus favouring the establishment of cross-stimulating scientific interactions at the cutting edge of knowledge in the areas considered. The complete proceedings will be published by Plenum Press. It is expected that at these meetings opportunities arise for numerous informal and informative interactions among participants with diversified and yet specialized expertise.*

#### Program:

##### June 4

8.00	Registration	
8:30	Pezcoller Foundation Officers Enrico Mihich	Welcome Introductory Remarks
<b>AM</b>	<b>Session I, The Genetics of Tumor Heterogeneity</b> <b>Co-Chairmen: Giulio Draetta and Marco Pierotti</b>	
8:45	Ronald DePinho	Role of INK (4A) in the development of normal and neoplastic cells
9:15	Discussion	

- 9:45 Anton Berns Identification and characterization of collaborating oncogenes in compound mutant mice
- 10:45 Coffee Break
- 11:00 David Ward Allele discrimination using a rolling circle amplification technology
- 11:30 Discussion
- 12:00 Uninvited selected presentations
- 13:00 Lunch

**PM Session II, The Genetics of Tumor Heterogeneity and Tumor Differentiation**  
**Co-Chairmen: Pier Giuseppe Pelicci and Frank J.Rauscher, III**

- 14:00 Ray White Early events in colon carcinogenesis
- 14:30 Discussion
- 15:00 Joe Gray Genetic selection during tumor evolution
- 15:30 Discussion
- 16:00 Coffee Break
- 16:15 Douglas Hanahan Cellular and molecular parameters of pathways to cancer
- 16:45 Discussion
- 17:15 Adjourn

June 5

**AM Session III, New Methods to Measure Differentially Genes and Gene Products**  
**Co-Chairmen: Garth Anderson and Kristian Helin**

- 8:30 Thomas Gingeras High density oligonucleotides arrays platform for genotypic and expression profiling
- 9:00 Discussion
- 9:30 Paul Meltzer cDNA microarray analysis of gene expression in cancer
- 10:00 Discussion
- 10:30 Coffee Break
- 11:00 Paolo Di Fiore Novel protein: Protein interaction domain
- 11:30 Discussion
- 12:00 Lunch

**PM Session IV, Cell-Cell Interactions and Cell Regulation**  
**Co-Chairmen: David Livingston and Paolo Comoglio**

- 13:00 Rob Michalides Mechanism of growth advantage by overexpression of cyclin D1
- 13:30 Discussion
- 14:00 Johan Reed Dysregulation of apoptosis in cancer: Mechanisms of Bcl-2 family protein function
- 14:30 Discussion
- 15:00 Coffee Break
- 15:30 Richard Klausner The VHL tumor suppressor gene pathway
- 16:00 Discussion
- 16:30 Uninvited selected presentations
- 17:30 Adjourn

June 6

**AM Session V, Tumor Recognition by the Immune System  
Co-Chairmen: Thierry Boon and Lorenzo Moretta**

- 8:30 Pierre Coulie           Antigens recognized on human tumors by T  
                                  lymphocytes
- 9:00 Discussion
- 9:30 Coffee Break
- 10:00 Michael Pfreundschuh       Serological analysis of human tumor  
                                  antigens
- 10:30 Discussion
- 11:00 Pamela Ohashi               Induction of tumor immunity in vivo; transient  
                                  tumor regression in the absence of autoimmunity
- 11:30 Discussion
- 12:00 James Allison            T-cell co-stimulatory approaches to tumor  
                                  immunotherapy
- 12:30 Discussion
- 13:00 Lunch

**PM Session VI, Tumor Recognition by the Immune System  
Co-Chairmen: Richard Bankert and Giorgio Parmiani**

- 14:00 Guido Forni                Cytokines and tumor immunogenicity:  
                                  Towards appropriate cancer vaccines
- 14:30 Discussion
- 15:00 Cornelis Melief            T-cell immunity against cancer, a delicate  
                                  balancing act
- 15:30 Discussion
- 16:00 Coffee Break
- 16:30 Sharon Evans             Leukocyte endothelial cell adhesion in tumor  
                                  immunity
- 17:00 Discussion
- 17:30 Adjourn

June 7

**AM Session VII, Tumor Vascularization  
Co-Chairmen Napoleone Ferrara and Jane Azizkhan**

- 8:30 Peter Carmeliet            Blood vessel formation in mutant vascular endothelial  
                                  growth factor (VEGF) and placenta growth factor  
                                  (PlGF) mice
- 9:00 Discussion
- 9:30 Georg Brier               The role of VEGF in tumor angiogenesis
- 10:00 Discussion
- 10:30 Coffee Break
- 11:00 Rakesh Jain                Tumor microcirculation
- 11:30 Discussion
- 12:00 Carlo Croce               Concluding Remarks
- 12:30 Lunch
- 14:00 Touristic Event