



THE 1st TATRA IMMUNOLOGY CONFERENCE

**MOLECULAR DETERMINANTS
OF T CELL IMMUNITY**

6-9 September, 1994

LOW TATRA MOUNTAINS, SLOVAKIA

**PROGRAMME
OF LECTURES**

THE 1st TATRA IMMUNOLOGY CONFERENCE

**MOLECULAR DETERMINANTS
OF T CELL IMMUNITY**

6-9 September, 1994

Junior Hotel, Krpáčovo in the Low Tatra Mountains,
near Banská Bystrica, Slovakia

Organised by:

J. IVANYI, J. ŠTERZL,
J. ŠVÁČ (local organiser)
and G. WICK

Sponsored by:

*European Federation of Immunological Societies
Austrian, British, Czech and Slovak Societies
for Immunology
Austrian Bureau for Exchange Programmes
with Middle and Eastern Europe
The Wellcome Research Laboratories
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9.10-9.15 Opening of the conference

Introductory session

(Chair: A. Mitchison, Berlin; M. Ferenčik, Bratislava)

- 9.15-10.00 J. HOWARD (*Heidelberg*): Adaptive aspects of antigen presentation through class I MHC molecules

Tea/Coffee break

- 10.15-11.00 M. DAVIS (*Stanford*): T cell receptor recognition and repertoire selection

- 11.00-11.45 E. SERCARZ (*Los Angeles*): The self-reactive repertoire is responsive to the cryptic self

Topography of antigenic peptides

(Chair: E. Sercarz, Los Angeles; Ann Cooke, Cambridge)

- 16.15-17.00 F. M. SINIGAGLIA (*Milano*): Defining the rules for peptide MHC class II interaction

- 17.00-17.45 B. THOMAS (*London*): CD4 T cell recognition of the hypervariable domains of influenza haemagglutinin

Tea/Coffee break

- 18.00-18.45 M. PLA (*Paris*): Determinants involved in allogeneic recognition

- 18.45-19.30 J. IVANYI (*London*): MHC permissive T cell responsiveness to mycobacterial epitopes

WEDNESDAY, 7th SEPTEMBER

Processing and MHC recognition of epitopes
(Chair: R. Lechler, London; Marika Pla, Paris)

- 8.30-9.15 H. RAMMENSEE (*Tübingen*): Peptide specificities of MHC molecules

- 9.15-10.00 C. MELIEF (*Leiden*): Induction of cytotoxic T lymphocytes against tumour associated antigens

Tea/Coffee break

- 10.15-11.00 N. ROMANI (*Innsbruck*): Dendritic cells: top specialists for the generation and presentation of immunogenic peptides to resting T cells

- 11.00-11.45 K. EICHMANN (*Freiburg*): Structural and functional maturation of the CD3-T cell receptor complex during thymic development

Receptors and signal transduction

(Chair: K. Eichmann, Freiburg; H. Stockinger, Vienna)

- 16.15-17.00 P. CAPEL (*Utrecht*): Heterogeneity in function and signal transduction of human Fcγ receptors

- 17.00-17.45 S. DAMJANOVICH (*Debrecen*): Dynamic receptor superstructures govern immune processes and pharmacological interactions at the plasma membrane

Tea/Coffee break

- 18.00-18.45 V. HOŘEJŠÍ (*Prague*): Association of leukocyte surface receptors with protein kinases

- 18.45-19.30 J. PENNINGER (*Toronto*): T cell development in transgenic mice expressing splice variants of the protein tyrosine phosphatase CD45

THURSDAY, 8th SEPTEMBER

Superantigenic interactions with α/β and γ/δ TcR
(Chair: H. Wagner, Munich; M. Davis, Stanford)

8.30–9.15 G. DE LIBERO (*Basel*): Phosphate modified sugars stimulate human $\gamma\delta$ T cells

9.15–10.00 G. KROEMER (*Madrid*): Pleiotropic effects of superantigens *in vivo*

Tea/Coffee break

10.15–11.00 M. MALKOVSKY (*Madison*): Immunosurveillance of viral infection with $\gamma\delta$ T cells

11.00–11.45 H. WAGNER (*Munich*): Mechanisms of superantigen induced lethal T cell shock

Ontogeny and Tolerance
(Chair: I. Lefkovits, Basel; Polly Matzinger, Washington)

16.15–17.00 J. OWEN (*Birmingham*): Cell signalling during T cell development within the thymus

17.00–17.45 R. LECHLER (*London*): Anergy and suppression in T cell tolerance

Tea/Coffee break

18.00–18.45 P. MATZINGER (*Washington*): Does the immune system really discriminate between self and non-self?

18.45–19.30 D. MASON (*Oxford*): The role of the immune system in the maintenance of self-tolerance

FRIDAY, 9th SEPTEMBER

Autoimmunity
(Chair: M. Zembala, Cracow, D. Mason, Oxford)

8.30–9.15 G. WICK (*Innsbruck*): The role of HSP 65/60 in the pathogenesis of atherosclerosis

9.15–10.00 A. COOKE (*Cambridge*): Prevention of autoimmune endocrine disease

Tea/Coffee break

10.15–11.00 W. VAN EDEN (*Utrecht*): Peptide immunoregulation in experimental autoimmunity

11.00–11.30 B. METZLER (*Cambridge*): Nasal administration of peptides for immunotherapy of autoimmune disease

Concluding session
(Chair: J. Howard, Heidelberg; S. Damjanovich, Debrecen)

16.15–17.00 A. MITCHISON (*Berlin*): Regulation by T cell cytokines

17.00–17.45 F. CELADA (*Genoa*): Mathematical modelling of the immune system: The thymic function

Tea/Coffee break

18.00–18.45 J. ŠTERZL (*Prague*): The take-home lesson: Spiral circuits in the history of immunology