

UNIVERSITA' DI NAPOLI FEDERICO II

ACCADEMIA NAZIONALE DEI LINCEI

JOHNS HOPKINS UNIVERSITY

Thursday, 4 March 1999

- 09:00 OPENING REMARKS
 - Gianni Marone (Naples, I), Lawrence M. Lichtenstein (Baltimore, MD) and Stephen J. Galli (Boston, MA)
- 09:15 KEYNOTE ADDRESS
 - Nerve Growth Factor and Mast Cells in Neuro-Endocrine-Immune Interactions: R. Levi-Montalcini (Rome, I)

SESSION 1. DEVELOPMENT OF MAST CELLS AND BASOPHILS

Chair-person: S.J. Galli (Boston, MA) and G. Rossi (Naples, I)

- 09:35 Regulation of Mast Cell and Basophil Development and Function by Stem Cell Factor and IL-3: S.J. Galli (Boston, MA)
- 10:00 Gain-of-Function Mutations of *c-kit* in Human Diseases: V Kitamura (Osaka, J)
- 10:25 Cytokine-Dependent Regulation of Human Mast Cell Development: T Nakahata (Tokyo, J)
 - 10:50 Coffee Break
- 11:05 Regulation of Human Mast Cell Development: K.F. Austen (Boston, MA)
- 11:30 Regulation and Dysregulation of Mast Cell Survival and Apoptosis: D.D. Metcalfe (Bethesda, MD)

SESSION 2. STRUCTURE AND FUNCTION OF MAST CELL PROTEASES

(Chair-person: Y Kitamura (Osaka, J))

- 11:55 Structure and Function of Mouse Mast Cell Proteases and Proteoglycans: R.L. Stevens (Boston, MA)
- 12:20 Role of Mast Cell Proteases in Gastrointestinal Inflammation and Immune Responses: H.R.P. Miller (Edinburgh, UK)
- 12:45 Structure and Function of Human Mast Cell Chymase: N.M. Schechter (Philadelphia, PA)
 - 13:10 Lunch

SESSION 3 - NERVE-MAST CELL INTERACTIONS. PHYSIOLOGY AND PATHOLOGY

Chair-person: J. Bienenstock (Hamilton, Ontario, CND)

- 15:00 Mast Cell-Nerve Communication in Inflammation: a Possible Role for NGF: J. Bienenstock (Hamilton, Ontario, CND)
- 15:25 Morphologic and Ultrastructural Evidence of Nerve-Mast Cell Interactions in Amphibians: G. Chieffi Baccari (Naples, I)
- 15:50 Nerve Growth Factor in Allergic Inflammation and Tissue Remodelling: L. Aloe (Rome, I) and S. Bonini (Naples, I)
 - 16:15 Coffee Break
- 16:30 Interactions between Neurotrophins and Mast Cells: B.M. Henz (Berlin, D)
- 16:55 Effects of Mast Cell Mediators on Peripheral Neurotransmission: B.J. Udem (Baltimore, MD)
- 17:20 Effects of Neuropeptides on Mast Cell Function: B.K. Wershil (Charlestown, MA)

Friday, 5 March 1999

SESSION 4- MAST CELLS AND BASOPHILS IN HOST DEFENSE

Chair-person: H.R.P. Miller (Edinburgh, UK)

- 09:00 Mast Cell Modulation of Bacterial Clearance: S.N. Abraham (Durham, NC)
- 09: 25 Mast Cells in Host Defense Against Bacterial Peritonitis: L. Hültner (Munich, D)
- 09:50 Activation of Human Basophils and Mast Cells in Bacterial and Viral Infections: V. Patella (Naples, I)
- 10:15 Mast Cells and Basophils in Host Defense Against Parasites: C.S. Lantz (Boston, MA)
 - 10:40 Coffee Break

SESSION 5 MAST CELLS IN HOMOEOSTASIS AND CARDIOVASCULAR DISORDERS

Chairperson: P.T. Kovanen (Helsinki, FIN)

- 10:55 Human Mast Cells as Regulators of Fibrinolysis: P. Valent (Vienna, A)
- 11:20 Human Mast Cells in Atherosclerosis and Disorders of Lipid Metabolism: P.T. Kovanen (Helsinki, FIN)

SESSION 6. REGULATION OF MAST CELL, SIGNALING AND SECRETION

Chair-person: J-P. Kinet (Boston, MA)

- 11:45 Amplification and Inhibition of F ϵ cRI-Dependent Mast Cell Activation: J-P. Kinet (Boston, MA)
- 12:10 Receptor-Dependent Negative Regulation of Mast Cell Secretion: M. Daëron (Paris, F)
- 12:35 Differential Regulation of Mast Cell Mediator Secretion by Bacterial Products: J.S. Marshall (Halifax, Nova Scotia, CND)
 - 13:00 Lunch

SESSION 7. PEPTIDE LEUKOTRINES, CYTOKINES AND CHEMOKINES IN ALLERGIC DISORDERS

Chair-person: K.F. Austen (Boston, MA)

- 14:30 Lipid Mediators Derived from Human Mast Cells and Basophils in Allergic and Related Disorders: M. Triggiani and G. Rossi (Naples, I)
- 14:55 Differential Regulation of Basophil Functions by Chemokines: C.A. Dahinden (Berne, CH)
- 15:20 A Novel Negative Regulator of FcεRI-Dependent Cytokine Secretion in Mast Cells: S-Y. Tam (Boston, MA)
- 15:45 Stem Cell Factor is Localized in, Released from, and Cleaved by Human Mast Cells: A. De Paulis (Naples, I)

Saturday, 6 March 1999

SESSION 8. NOVEL CONCEPTS OF MAST CELLS AND BASOPHILS IN ATOPIC DISORDERS

Chair-person: D. Metcalfe (Bethesda, MD)

- 09:30 Regulation of Proinflammatory Mediator Production and Cytokine Secretion from Human Basophils: L.M. Lichtenstein and D.W. MacGlashan Jr. (Baltimore, MD)
- 09:55 Cytokine Production and Regulation in Human Intestinal Mast Cells: S.C. Bischoff (Hanover, D)
- 10:20 Regulation of Mast Cell Secretion by Interferon γ and Nitric Oxide: J.W. Coleman (Liverpool, UK)
 - 10:45 Coffee Break
- 11:00 Neurosensory Hyperresponsiveness in Human Airways and the Role of Nerve Growth Factor: A. Togias (Baltimore, MD)
- 11:25 Pharmacological Profile of Novel Histamine H₁-Receptor Antagonists: S.Z. Langer (Paris, F)
- 11:50 Biochemical Basis of Cardiovascular Effects of Histamine H₁-Receptor Antagonists: M. Tagliabatella (Naples, I)
- 12:15 CLOSING REMARKS