

7th BIENNIAL SYMPOSIUM

of the INTERNATIONAL
EOSINOPHIL SOCIETY, INC.



Eosinophils 2011

FOREVER YOUNG



JUNE 21-25, 2011
FAIRMONT LE CHÂTEAU FRONTENAC
QUÉBEC CITY  QUÉBEC CANADA

FINAL PROGRAM



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WELCOME TO QUÉBEC CITY

Samuel de Champlain founded Québec City (pronounce KEBEK) on July 3, 1608. In Algonquian (the spoken language of one of the native nations living in the area at the time), Québec means place where the river narrows. The old City is part of the Unesco world heritage.

For numerous years, Québec City was a key Settlement in North America and was heavily militarized. You will notice fortifications (city walls) surrounding the old City that are reminiscent of its strategic importance. Other key sites such as the Plains of Abraham and the Citadel are also important witnesses of the long lasting military presence in the City.

What to visit in the City

Take advantage of your stay to walk the old City notably "Place Royale" and the "Petit Champlain," walk "la rue Saint-Jean," "la place d'Youville," and "la rue Saint-Paul." Don't hesitate to take the ferry across the St-Lawrence River in order to have a look at the old City from another point of view. The Fairmont organizes tours and a Tourist Office is located in the front of the Château. Additionally, you will find key information about what to do in Québec at the following website: www.quebecregion.com/en

Shows and events

There are many artistic events during the summer. At dusk, go the "Vieux Port" to watch the The Image Mill (le moulin à images; www.lacaserne.net/index2.php/other_projects/the_image_mill/) projected on the harbor building (free). Attend the "Fêtes de la St-Jean", a music show on the "Plaines d'Abraham" followed by fireworks during the evening of June 23. Reserve a seat for the "Cirque du Soleil."



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SYMPOSIUM SUPPORTERS

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Steven Ackerman

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Seema Aceves, Steven Ackerman, Monique Capron, Kimberly Dyer, Allison Fryer, Gerald Gleich, Simon Hogan, Francesca-Levi Schaffer, Redwan Moqbel, Per Venge, and Andrew Wardlaw



IN MEMORIAM

**David Bass**

We recognize with sadness the death of Dr. David Bass, a dedicated eosinophilologist. David died in July, 2009 after a long illness. At his death, David A. Bass, M.D., D. Phil., was Professor Emeritus of Internal Medicine at Wake Forest University School of Medicine. During his 30-year career in the Department of Internal Medicine, Dr. Bass served with distinction as the Thomas H. Davis Professor of Pulmonary Medicine, and in many capacities including Chief of the Section on Pulmonary, Critical Care, Allergy and Immunology, Acting Chief of Rheumatology, and Co-Head of the Section on Molecular Medicine. He also directed the MD/PhD program at Wake Forest University. Dr. Bass was an outstanding investigator, physician-scientist and mentor. Because of his research accomplishments and international reputation, Dr. Bass

was elected to the American Society of Clinical Investigation, and received a number of other prestigious honors throughout his productive career. David's initial studies of eosinophils were undertaken in concert with his training with the late Professor Paul Beeson at Oxford University. Professor Beeson, as an savvy physician-scientist, and his research group at Oxford University made significant and salient contributions to understanding the immunobiology of eosinophils, including studies documenting the T cell dependence of eosinophilia. David Bass made contributions to understanding mechanisms of eosinopenia in inflammation and of leukocyte activation and co-authored in 1977 with Professor Beeson a monograph on eosinophilia.


SCIENTIFIC PROGRAM

TUESDAY, JUNE 21

Welcome Reception - 17:00 to 19:00

WEDNESDAY, JUNE 22

Breakfast (on your own)

 All sessions take place in the Frontenac Ballroom

Presidential Address - 09:00 to 09:15

James Lee (USA)

Introduction - The Eosinophil Ambassadors - 09:15 to 10:00

09:15 - 09:30

What lies before our eyes may be lies: eosinophil degranulation---in the absence of intact eosinophils

Gerald Gleich (USA)

09:30 - 09:45

Of mice and men - ECP makes the difference?

Per Venge (Sweden)

09:45 - 10:00

Eosinophils - We come in peace (or do we): Conspiracy, string and other theories from a consummate eosinophilophile

Steven Ackerman (USA)

Coffee Break - 10:00 to 10:30

Eosinophils I - 10:30 to 12:00

Chair

Leo Koenderman (Netherlands)

10:30 - 10:50

Eosinophil receptors, receptor-mediated inhibition

Ariel Munitz (Israel)

10:50 - 11:10

Eosinophils regulate dendritic cell-induced Th2 polarization following allergen challenge in a mouse model of asthma

Elizabeth Jacobsen (USA)

11:10 - 11:30

Eosinophils and extracellular traps

Hans-Uwe Simon (Switzerland)

11:30 - 11:45

Abstract speaker

Impact of endocannabinoids on human eosinophils activation

Nicolas Flamand (Canada)

11:45 - 12:00

Abstract speaker

Negative regulation of eosinophil production by TLR4 ligand

Patricia Fulkerson (USA)

Lunch - 12:00 to 13:30 (on your own)



SCIENTIFIC PROGRAM

continued - WEDNESDAY, JUNE 22*Eosinophils II - 13:30 to 15:00*

Chair

Steven Ackerman (USA)

13:30 - 13:50

Eosinophils in the lung - Forever Young?

Madeleine Rådinger (Sweden)

13:50 - 14:10

Characterization of eosinophils in the zebrafish

David Traver (USA)

14:10 - 14:30

CD34 and eosinophils - beyond hematopoiesis

Kelly McNagny (Canada)

14:30 - 14:50

Identification of human eosinophil lineage-committed progenitors

Yasuo Mori (Japan)

14:50 - 15:00

Presentation of the 1st Gerald Gleich Award to Dr. Yasuo Mori

Gerald Gleich (USA)

Coffee - 15:00 to 15:30*Eosinophils III - 15:30 to 17:15*

Chair

Paige Lacy (Canada)

15:30 - 15:50

Role of IL-25 in intestinal allergic inflammation

Yui-Hsi Wang (USA)

15:50 - 16:10

Eosinophil granule-derived cytokines: Mechanisms of secretion

Lisa Spencer (USA)

16:10 - 16:30

Signal transduction pathways involved in regulation of eosinophil differentiation

Miranda Buitenhuis (Netherlands)

16:30 - 16:45

Mechanisms of eosinophil accumulation in allergic diseases

Nives Zimmermann (USA)

16:45 - 17:00

What we have learned from ex vivo differentiated bone marrow eosinophils

Kimberly Dyer (USA)

17:00 - 17:15

Abstract Speaker

N-glycans and eosinophil trafficking

P. Sriramarao (USA)

SCIENTIFIC PROGRAM

THURSDAY, JUNE 23

Breakfast (on your own)

Eosinophils IV - 08:00 to 09:15

Chair

David Abraham (USA)

08:00 - 08:20

Ribonuclease-sensing by dendritic cells promotes Th2 responses

Dragana Jankovic (USA)

08:20 - 08:40

A TRAIL-regulated E3 ubiquitin ligase links allergen and rhinovirus exposure to asthma via targeting a protein phosphatase

Joerg Mattes (Australia)

08:40 - 09:00

Eosinophils regulate local immunity during parasitic nematode infection

Judith Appleton (USA)

09:00 - 09:15

Abstract speaker

Eosinophils regulate local immunity during muscle infection by *Trichinella spiralis*

Nebiat Gebreselassie (USA)

Eosinophils in Health and Disease I - 09:20 to 10:00

Chair

Amy Klion (USA)

09:20 - 09:40

Diagnosis and treatment of lymphocytic variant hypereosinophilic syndrome: state of the art and perspectives in 2011

Florence Roufosse (Belgium)

09:40 - 10:00

New classification of eosinophil hematopoietic disorders: report from Vienna meeting

Peter Weller (USA)

Coffee Break - 10:00 to 10:30

Eosinophils in Health and Disease II - 10:30 to 11:55

Chair

Marc Rothenberg (USA)

10:30 - 10:45

Gastrointestinal eosinophils: friend or foe?

Glenn Furuta (USA)

10:45 - 11:00

Monocyte/macrophage-CCL11-eosinophil axis in inflammatory bowel diseases

Simon Hogan (USA)

11:00 - 11:15

Mouse models of eosinophilic esophagitis

Carine Blanchard (USA)

11:15 - 11:30

Induction and activation of invariant natural killer T cells is critical in the initiation and progression of eosinophilic esophagitis

Anil Mishra (USA)

11:30 - 11:55

Genomic and MicroRNA analysis of Eosinophilic Esophagitis

Marc Rothenberg (USA)

Lunch - 12:00 to 13:30 (on your own)

SCIENTIFIC PROGRAM

continued - THURSDAY, JUNE 23

Eosinophils in Health and Disease II (continued) - 13:30 to 13:55

Chair

Marc Rothenberg (USA)

13:30 - 13:50

Remodeling, eosinophils, and eosinophilic esophagitis

Seema Aceves (USA)

13:50 - 14:10

Medical treatment of eosinophilic esophagitis: New insights

Alex Straumann (Switzerland)

14:10 - 14:25

Abstract speaker

Hierarchical IL-5 expression defines a subpopulation of highly-differentiated “pro-eosinophilic” human Th2 cells

Calman Prussin (USA)

14:25 - 14:40

Abstract speaker

Role of IL-33 and eosinophils in intestinal inflammation

Joanne Masterson (USA)

14:40 - 14:55

Abstract speaker

The role of the small GTPase Rho H in eosinophil development and eosinophilic disorders

Christina Stoeckle (Switzerland)

Coffee Break - 15:00 to 15:30

IES Business Meeting (All are Welcome) – 15:30 -16:15

Eosinophils in Health and Disease III - 16:30 to 17:30

Chair

Kristin Leiferman (USA)

16:30 - 16:50

Eosinophils and dermatologic diseases

Dagmar Simon (Switzerland)

16:50 - 17:10

Eosinophils support the long term survival of plasma cells in the murine bone marrow

Claudia Berek (Germany)

17:10 - 17:30

Identification of innate IL-5 producing cells that promote eosinophil recruitment and contribute to antitumor immunity

Kiyoshi Takatsu (Japan)

Poster Preview - Highlights from the Podium - 17:30 to 18:00

Chair

Helene Rosenberg (USA)

SCIENTIFIC PROGRAM

FRIDAY, JUNE 24

Breakfast (on your own)

Eosinophils in Health and Disease IV - 08:00 to 09:50

Chair

A. Barry Kay (United Kingdom)

08:00 - 08:20

Asthma and eosinophils: can some controversies be overcome?

Frederick Hargreave (Canada)

08:20 - 08:40

Eosinophils and asthma; A link to exacerbations and remodeling

William Busse (USA)

08:40 - 09:00

Regulation of eosinophil progenitors in allergic asthma

Gail Gauvreau (Canada)

09:00 - 09:20

Human studies of eosinophils and allergic tissue reactions

A. Barry Kay (United Kingdom)

09:20 - 09:35

Abstract speaker

Inhibition of eosinophilic inflammation by supplementation with 5-hydroxytryptophan, a serotonin precursor

Joan Cook-Mills (USA)

Coffee and Poster Viewing - 9:35 to 10:25

Eosinophils in Health and Disease V - 10:25 to 12:00

Chair

Michael Minnicozzi (USA)

10:25 - 10:45

New insights into the roles of eosinophils in chronic rhinosinusitis

Robert Schleimer (USA)

10:45 - 11:05

Airway exposure to fungal antigens induces innate eosinophilia mediated by a novel Th2-type lymphoid cell subset

Hirohito Kita (USA)

11:05 - 11:25

A tale of two cells: Interactions between nerves and inflammatory cells in the lungs

Allison Fryer (USA)

11:25 - 11:45

Viruses, nerves, and eosinophils in asthma

David Jacoby (USA)

11:45 - 12:00

Noninvasive assessment of atopic diseases: Metabolomic profiling of urine using nuclear magnetic resonance (NMR) analysis

Darryl Adamko (Canada)

Lunch - 12:00 to 13:30 (on your own)

SCIENTIFIC PROGRAM

continued - FRIDAY, JUNE 24

Eosinophils and Therapy I - 13:30 to 15:00

Chair

Alex Straumann (Switzerland)

13:30 - 13:50

Antagonists of IL-5 in asthma

Andy Wardlaw (United Kingdom)

13:50 - 14:10

Benralizumab, a humanized anti-interleukin 5 receptor-alpha monoclonal antibody, with enhanced antibody-dependent cell-mediated cytotoxicity function, in development for the treatment of asthma

Alison Humbles (USA)

14:10 - 14:30

Targeting eosinophil-specific siglecs

Bruce Bochner (USA)

14:30 - 14:45

Abstract speaker

Reslizumab in children and adolescents with eosinophilic esophagitis: results of a double-blind, randomized, placebo-controlled study.

Jonathan Spergel (USA)

14:45 - 15:00

Abstract speaker

The generation and characterization of inducible eosinophil-less transgenic mice

Lian Willetts (USA)

Coffee and Poster Viewing - 15:00 to 15:30

Ehrlich Award Presentation and Lecture - 15:30 to 16:45

15:30 - 15:45

Introduction

Redwan Moqbel (Canada)

15:45 - 16:30

Lecture: The attraction of eosinophiles

Timothy Williams (United Kingdom)

16:30 - 16:45

Award Presentation

Redwan Moqbel (Canada)

Poster Viewing - 16:45 to 18:30

Evening Activity - 19:00 to 21:00



SCIENTIFIC PROGRAM

SATURDAY, JUNE 25

Breakfast (on your own)

Personal Visions and Individual Directions - 08:00 to 10:00

08:00 - 08:30

Eosinophils - Long a foot, but not effete

Peter Weller (USA)

08:30 - 09:00

My endless love story with eosinophils

Monique Capron (France)

09:00 - 09:30

From postdoc-to-fullstop

Paul Foster (Australia)

09:30 - 10:00

From parasites to allergy: Destiny strikes

Francesca Levi-Schaffer (Israel)

Coffee and Poster Viewing - 10:00 to 10:30

Personal Visions and Individual Directions (Continued) - 10:30 to 11:30

10:30 - 11:00

The eosinophil as a teacher: "Basic" lessons and insights!

Redwan Moqbel (Canada)

11:00 - 11:30

Eosinophil priming and activation: It takes two to tango

Leo Koenderman (Netherlands)

Concluding Remarks - 11:30 to 12:00

James Lee (USA)

EHRlich LECTURESHIP

The Ehrlich Lectureship is awarded at the biennial Eosinophil symposia of the International Eosinophil Society, Inc. to an individual(s) who has made seminal scientific contributions to research on the eosinophil and related allergy/immunology fields in terms of eosinophil biochemistry, development, cellular, molecular, structural or immunobiology and/or the participation of the eosinophil in the pathogenesis of Eosinophil-associated allergic or parasitic diseases and hypereosinophilic syndromes.

Professor Timothy J. Williams, PhD, FMedSci, is Emeritus Professor /Asthma UK Professor of Applied Pharmacology in the National Heart and Lung Institute at Imperial College, London, UK. Dr. Williams has served as a teacher, scholar, mentor, and leading researcher in the field of inflammation biology. He is a world-renowned expert in leukocyte biology, mechanisms of leukocyte recruitment, and pharmacologic interventions directed toward treatments of asthma and respiratory disease. His research reports have been cited prominently, and he has been recognized by numerous invited lectureships and awards, notably the Pfizer Prize (1984) and the Gaddum Memorial Prize (2000). We are delighted that he will be delivering the Paul Ehrlich Lecture at the 7th International Eosinophil Symposium, and receiving the Ehrlich Prize. This prize is awarded in recognition of Dr. Williams' discovery of eotaxin, a molecule with unique eosinophil chemoattractant properties, and likewise for his profound contributions to the understanding of eosinophil trafficking, eosinophil-mediated inflammation, and the role of eosinophils in health and disease.



Recipient of the 2011 Ehrlich Lectureship:



**PAUL EHRlich LECTURESHIP
INTERNATIONAL EOSINOPHIL SOCIETY, INC.
2011**

Timothy J. Williams, PhD, FMedSci

For the discovery of Eotaxin and outstanding contributions to the understanding of eosinophil trafficking, eosinophil mediated inflammation and the role of eosinophils in health and disease

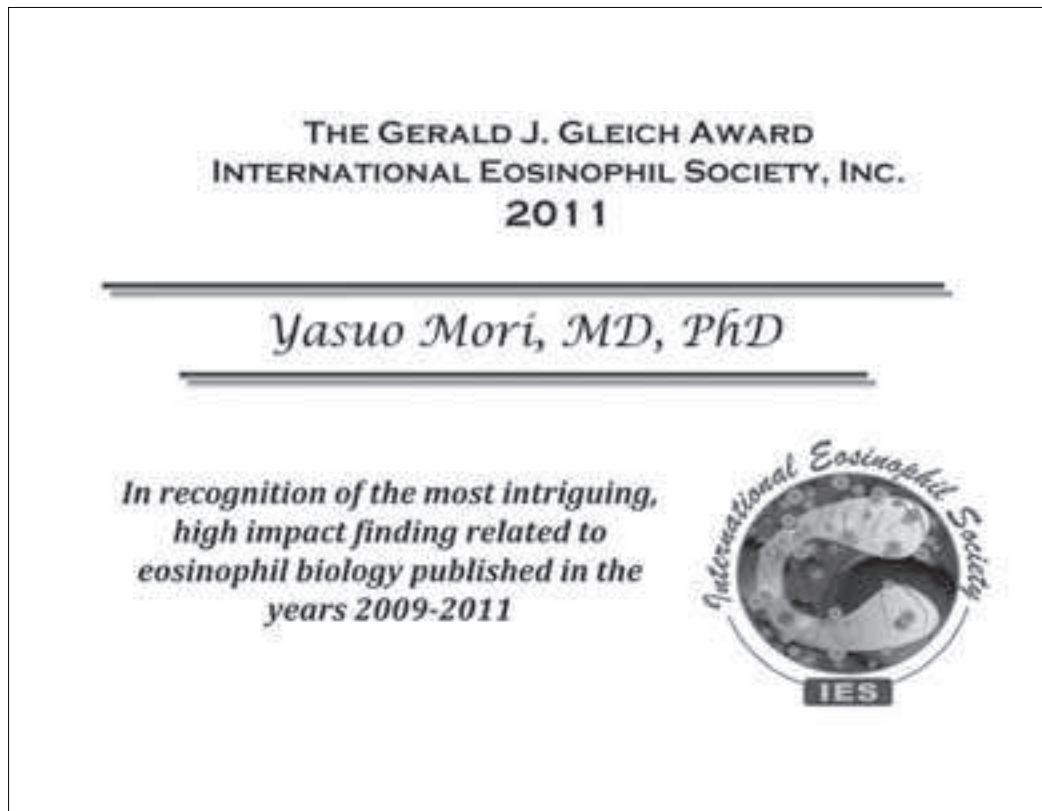


GLEICH AWARD

Dr. Yasuo Mori will receive the first Gerald Gleich prize. This prize will be awarded for the first time at Eosinophils 2011: Forever Young, and was created to recognize the individuals who have published high impact findings during the intervals since the preceding meeting. This award was named in honor of our esteemed colleague, Dr. Gerald Gleich, who has devoted his career to the exploration of the eosinophilic leukocyte and to the elucidation of its role in health and disease.

Dr. Mori was selected for this honor based on his first-authored publication "Identification of the human eosinophil lineage-committed progenitor: revision of phenotypic definition of the human common myeloid progenitor" J Exp Med. 2009 Jan 16;206(1):183-93 which was from the laboratory of Dr. Koichi Akachi at Kyushu University Graduate School of Medical Sciences, Fukuoka, Japan. In this work, Dr. Mori and Dr. Akachi defined an antigen profile for a unique eosinophil progenitor cell in human bone marrow and recognized its potential as a therapeutic target. We are delighted that Dr. Mori will be joining us at this meeting and receiving this award.

Recipient of the 2011 Gleich Award



SERVICE AWARD

Dr. Steven J. Ackerman, PhD, is the first recipient of the newly-established International Eosinophil Society Service Award. Dr. Ackerman is a graduate of McGill University, Montréal, Canada, and is currently Professor of Biochemistry and Molecular Genetics and Professor of Medicine at University of Illinois at Chicago. Dr. Ackerman, who is immediate past-president of the IES, has worked tirelessly on behalf of this organization. Among his activities, Dr. Ackerman organized the Third Eosinophil Symposium in Snowmass, Colorado, and co-organized and participated in fundraising activities for all of the meetings since then, including the organization, preparation, and submission of the NIH R13 conference grants. He served as Treasurer for the IES from 2003 until 2007, and both President and Treasurer from 2007 until 2009. During this time, he provided structure and financial stability to the fledgling organization. This prize is awarded to Dr. Ackerman in recognition of and gratitude for the dedicated service he has provided to the International Eosinophil Society and to the larger community of eosinophil scientists worldwide.

Recipient of the 2011 Service Award

