

SCIENTIFIC PROGRAM

11th International Conference

on

Bioactive Lipids in Cancer,
Inflammation, and Related
Diseases

October 25 – 28, 2009

Cancun, Mexico

Sunday, October 25, 2009

Registration opens: 8:00 AM

Venue: MAYA BALLROOMS 1&2

1:00 PM *Welcome address* **Kenneth V. Honn, PhD**
Chairman, Organizing Committee

Keynote address

Introduction of Keynote speaker by Dr. Gabor Tigyi

1:15 PM **Jesper Z. Haeggström, MD, PhD**
Karolinska Institutet, Stockholm, Sweden
Advances on molecular and cellular aspects of leukotriene biosynthesis and actions
(Abstract 1)

Life-time Achievement Award Lecture

Introduction of the Awardee and Presentation of the Award by
Dr. Lawrence J. Marnett and Dr. Kenneth V. Honn

2:10 PM **K. Frank Austen, MD**
AstraZeneca Professor of Respiratory and Inflammatory Diseases, Department of Medicine,
Harvard Medical School and Brigham and Women's Hospital, Boston MA
Leukotrienes as Therapeutic Targets in Asthma (Abstract 2)

3:00 PM *Coffee break*

INAUGURAL SESSION

Session Chair: Edward A. Dennis

3:30 PM	LIPID SIGNALING LECTURE <i>Imaging Mass Spectrometry: Assessing Spatial and Temporal Lipid Distributions in Tissue</i> (Abstract 3)	Richard M. Caprioli, PhD
4:20 PM	THE JOURNAL OF LIPID RESEARCH: 50th Anniversary Lecture <i>Bioactive Oxidized Lipids are a Major Target of Innate Immunity: Implications for Health and Disease</i> (Abstract 4)	Joseph L. Witztum, MD

Opening reception: 6:00 – 8:30 PM

Cocktails & Hors d'oeuvres

Monday, October 26, 2009

PLENARY SESSION 1

Venue: MAYA BALLROOMS 1&2

Session Chair: Lawrence J. Marnett

8:00 AM	<i>Role of the dynamic microenvironment in tumor progression</i> (Abstract 5)	Zena Werb, PhD
8:50 AM	<i>FTY720 (fingolimod) as a treatment of human Multiple Sclerosis – New mechanistic insights</i> (Abstract 6)	Volker Brinkmann, PhD

Coffee break: 9:40 AM (20 min)

Time	Session 1: <i>Lysophosphatidic acid Pathobiology</i> (MAYA BALLROOM 1)	Session 2: <i>Lipid Mediators of Inflammation and Resolution I</i> (MAYA BALLROOM 2)
	Chairs: Gabor Tigyi & Abby Parrill	Chairs: Maria J. Moreno-Aliaga & Nicolas Bazan
10:00 AM	Gabor Tigyi: <i>Lysophosphatidic Acid in Cancer Chemo- and Radiation-Resistance</i> (Abstract 7)	Joan Claria: <i>ω-3-PUFA-Derived Mediators Minimize Obesity-Induced Hepatic Steatosis and Insulin Resistance</i> (Abstract 12)
10:30 AM	Abby Parrill: <i>Discovering autotaxin inhibitors</i> (Abstract 8)	Nicolas Bazan: <i>Neuroprotectin D1 downregulates amyloidogenic processing of amyloid-β precursor protein and the initiation and propagation of neuroinflammation</i> (Abstract 13)
11:00 AM	Shinichi Okudaira: <i>Roles of autotaxin in pulmonary fibrosis</i> (Abstract 9)	Darlene Dartt: <i>Pro-inflammatory leukotriene D4-stimulated conjunctival goblet cell secretion is blocked by the resolvins RvE1 and RvD1</i> (Abstract 14)
11:20 AM	Roger Sabbadini: <i>Antibodies to bioactive lipids: a new wave of drug discovery</i> (Abstract 10)	Min Wan: <i>Proinflammatory peptide-lipid circuits and their regulation by anti-inflammatory, proresolving molecules</i> (Abstract 15)
11:40 AM	Menq-Jer Lee: <i>Balance of S1P1R and S1P2R signaling regulates vascular functions in vitro and in vivo</i> (Abstract 11)	Klaus van Leyen: <i>12/15-Lipoxygenase Contributions to Brain Damage following Stroke</i> (Abstract 16)

Lunch Break followed by Poster Tours: 12 Noon to 6:00 PM

POSTER PRESENTATIONS

Monday, October 26, 2009

9 AM – 6 PM

Discussion: 2 – 6 PM

Venue: MAYA BALLROOMS 3&4

Abstract	Presenting Author	Title
81	François Chouinard	<i>The Endocannabinoid 2-Arachidonoyl-glycerol Activates Human Polymorphonuclear Leukocytes: Fundamental Role of Leukotriene B4.</i>
82	Stephen Clark	<i>Esterified eicosanoids are acutely generated by human neutrophil 5-lipoxygenase in response to bacterial products in vitro and in vivo</i>
83	Casimiro Gerarduzzi	<i>Characterizing the Activating and Attenuating Signal Scaffolding Units of the PGE2-EP Receptor System in Normal and Arthritic Human Synovial Fibroblasts:</i>

Abstract	Presenting Author	Title
84	Dawn Holt	<i>Regulation of natural killer cell function by prostaglandin E2 receptors</i>
85	Jean-Claude Honoré	<i>Activation of the G protein-coupled receptor GPR40 by trans-arachidonic acids leads to cerebral and retinal microvascular degeneration</i>
86	Yasuyuki Kihara	<i>Lipid mediators in neuroimmune functions</i>
87	Julie Lefebvre	<i>Toll-like receptor ligands induce polymorphonuclear neutrophil migration: key roles for leukotriene B4 and platelet-activating factor</i>
88	Steven Mathis	<i>Non redundant and critical roles for leukotriene B4 receptors BLT1 and BLT2 in inflammatory arthritis</i>
89	Carissa Perez	<i>Disruptions in mitochondrial respiration lead to elevated de novo fatty acid synthesis as revealed by a 13C isotope labeling strategy</i>
90	Leon Spijkers	<i>Alterations in sphingolipid metabolism orchestrate endothelial function in hypertension</i>
91	Christopher Thomas	<i>Characterization of cell biology and signaling actions of 12S-HETE-PEs generated by thrombin-stimulated human platelets</i>
92	Phillip White	<i>Transgenic restoration of ω-3 derived Protectin D1 alleviates obesity-linked inflammation and insulin resistance in high-fat fed mice</i>
93	Anna Blobaum	<i>Probing possible NSAID exit routes from cyclooxygenase</i>
94	John Casper	<i>MultiBead Flow Cytometric Analysis of Arachadonic Acid Metabolites</i>
95	Sean Davies	<i>Treatment with the γ-ketoaldehyde scavenger, salicylamine, prevents loss of working memory in humanized apoE4 mice</i>
96	Rupal Deva	<i>3-HETE stimulates Kr, ppel-like factor 13 (KLF-13) for the transcriptional activation of COX-2 promoter</i>
97	Kelsey Duggan	<i>Molecular basis for cyclooxygenase inhibition by the non-selective nonsteroidal anti-inflammatory drug naproxen</i>
98	Darren Dumlao	<i>Carrageenan-induced hyperalgesia response induces essential bi-lateral eicosanoid production in the spinal cord</i>
99	Joanne Durn	<i>A comparison of in vitro prostanoid production in menorrhagic myometrium from women with and without uterine fibroids using ESI/LC-MS/MS</i>
100	Odaine Gordon	<i>Mechanistic studies into the formation of epoxyketo-linoleic acids</i>
101	Alicia M. Hidalgo-Estévez	<i>Induction of leukotriene A4 hydrolase gene expression by transforming growth factor β and 1,25-dihydroxyvitamin D3 in human primary monocytes</i>
102	Takao Inoue	<i>β-catenin asymmetry is regulated by PLA1 and retrograde traffic in C. elegans stem cell divisions</i>
103	Thuc Le	<i>Coherent Anti-Stokes Raman Scattering Microscopy for Lipid Research</i>
104	Julie Lefebvre	<i>Extracellular adenosine 5'-triphosphate stimulates leukotriene biosynthesis in human polymorphonuclear neutrophils: synergy with fMLP and PAF</i>
105	Julie Lefebvre	<i>The extra domain A of fibronectin primes leukotriene biosynthesis and stimulates polymorphonuclear neutrophils migration</i>
106	Jose Martos	<i>Identification of a new structural class of DP2 (CRTH2) antagonists</i>
107	Nalini Mayroo	<i>L-erythro-Sphingosine 1-Phosphate Selectively Generated by Sphingosine Kinase 2 May Act as a Pro-apoptotic Agent in Cancer</i>
108	Colleen McGrath	<i>Characterization of Lipid Electrophile-Mediated Inhibition of the THP-1 Macrophage Inflammatory Response</i>
109	Dagmar Meyer zu Heringdorf	<i>Dysregulation of Ca²⁺ homeostasis in sphingosine-1-phosphate lyase-deficient fibroblasts</i>
110	Valerie O'Donnell	<i>Murine macrophage 12/15-lipoxygenase generates phosphatidylethanolamine-esterified eicosanoids in vitro and in Th2-dependent lung allergy in vivo</i>
111	Valerie O'Donnell	<i>Thrombin-activated human platelets generate several novel families of esterified eicosanoids and related lipids from docosahexanoic and linoleic acid</i>
112	Valerie O'Donnell	<i>Development of assays to identify, characterize and quantify new families of esterified eicosanoids in human immune cells</i>
113	Sven-Christian Pawelzik	<i>Key Residues for Inhibitor Binding to Microsomal Prostaglandin E Synthase 1 (MPGES1)</i>
114	Alice Pentland	<i>AKRIC2, a keratinocyte UV inducible enzyme, contributes to PGF2α metabolism in the skin</i>

Abstract	Presenting Author	Title
115	Véronique Provost	<i>Stepwise Cooperation Between Leukotriene D4 and Interleukin-13 for the Release of Eotaxin-3 by Airway Epithelial Cells.</i>
116	Agnes Rasmuson	<i>Neuroblastoma Cells Produce PGE2 and Express all Four PGE2 Receptors: Implications for Tumorigenesis</i>
117	Robyn Richie-Jannetta	<i>Inhibition of zebrafish cyclooxygenase by nonselective and COX-2 selective inhibitors</i>
118	Prasanna Ekambaram	<i>Activation of Thromboxane receptor-a promotes tumor growth and angiogenesis through induction of VEGF expression in Prostate cancer cells</i>
119	Agnes Rinaldo-Matthis	<i>Pre-steady state kinetic characterization of human LTC4 synthase</i>
120	Philippe-Pierre Robichaud	<i>The redistribution of fatty acids in glycerophospholipid species following the stimulation of human T cells</i>
121	M Dolores Salvado Duro	<i>Role of endothelial COX-2 in the intracellular and transcellular synthesis of prostanoids during tumor-induced angiogenesis</i>
122	Vladimir Serebrov	<i>Role of sphingomyelin cycle, glutathione-S-transferase, and initiating caspases in formation of drug resistance in transplantable mice lymphosarcoma</i>
123	Vladimir Serebrov	<i>Functional state of the sphingomyelin cycle in rat livers during different lengths of starvation</i>
124	Ashley Snider	<i>The Role of Ceramidases in Inflammatory Bowel Disease</i>
125	Justin Snider	<i>Novel Approach for Analysis of Glucosylceramide and Galactosylceramide Molecular Species with Supercritical Fluid Chromatography Separation and Mass Spectrometry Detection (SFC/MS/MS)</i>
126	Carlos Sorgi	<i>Role of 5-Lipoxygenase on lipid body formation induced by Histoplasma capsulatum cell wall B-glucan and LTB4, TNF-α generation: a correlated with HIV-1 coinfecting immunity.</i>
127	Daniel Stamer	<i>Evidence for bimatoprost-sensitive prostamide receptors in human ocular cells associated with aqueous humor outflow</i>
128	Grant Sumida	<i>Sphingosine 1-phosphate promotion of circumferential MLC phosphorylation in human Schlemm's canal endothelial cells</i>
129	Takashi Suzuki	<i>Novel eicosanoids derived from transformation of 5S-HETE in RAW264.7 cells</i>
130	Noemi Tejera Hernandez	<i>Identification and stereochemical analysis of dihydroxy arachidonic acids formed in the reaction of COX-2 and aspirin treated COX-2 with 5S-hydroxy arachidonic acid (5S-HETE).</i>
131	Christopher Thomas	<i>Development of a novel mass spectrometry method for monitoring procoagulant/apoptotic aminophospholipids on the surface of immune cells.</i>
132	Mian-Ying Wang	<i>Morinda citrifolia (Noni) reduces cancer risk in current heavy smokers by decreasing lipid peroxide-derived DNA adducts</i>
133	Miao Wang	<i>Deletion of microsomal prostaglandin E synthase-1 modulates the response to vascular injury in mice</i>
134	Valery Yermalitsky	<i>Proteolytic degradation of PGHS-1 is associated with covalent modification of the enzyme in human platelets</i>
135	Silvio Zaina	<i>Native lipoprotein-induced de novo DNA methylation is associated with repression of inflammatory genes in THP-1 macrophages</i>
136	Theodore R. Holman	<i>Development of a High-Throughput, Mass Spectrometric Assay for the Discovery of Allosteric Inhibitors Against Human 15-lipoxygenase</i>
137	Sangeetha Joshi	<i>12-Lipoxygenase and β4 integrin interaction plays a role in cancer progression</i>
138	Károly Liliom	<i>Mechanism of lysophosphatidic acid-induced amyloid fibril formation of β2-microglobulin in vitro under physiological conditions</i>
139	Károly Liliom	<i>Sphingosylphosphorylcholine binds to calmodulin and inhibits its function</i>

Tuesday, October 27, 2009

PLENARY SESSION 2

Venue: MAYA BALLROOMS 1&2

Session Chair: Joan Claria

8:00 AM	<i>Diverse Immunological Effects of Sphingolipids (Abstract 17)</i>	Edward J. Goetzl, MD
8:50 AM	<i>COX-2 Oxygenation of Endocannabinoids: 2-Arachidonoyl glycerol as a Precursor of Bioactive Eicosanoids and a Probe of COX Inhibition Mechanisms (Abstract 18)</i>	Lawrence J. Marnett, PhD

Coffee break: 9:40 AM (20 min)

<i>Time</i>	Session 3: <i>Sphingosine-1-phosphate Pathobiology</i> (MAYA BALLROOMS 1&2)	Session 4: <i>Lipid Mediators of Inflammation and Resolution II</i> (MAYA BALLROOMS 3&4)
	Chairs: Akihito Yamaguchi & Nigel Pyne	Chairs: Edward A. Dennis & Yong Chen
10:00 AM	Akihito Yamaguchi: <i>Identification of the transporter that export sphingosine 1-phosphate from the cells (Abstract 19)</i>	Edward A. Dennis: <i>Lipidomics analysis of eicosanoid metabolism (Abstract 24)</i>
10:30 AM	Nigel Pyne: <i>Role of cross communication between HER2, SIP receptors and sphingosine kinase 1 in breast cancer (Abstract 20)</i>	Yong Chen: <i>Genomic, Lipidomic and Proteomic Analysis of the Oleaginous Fungus <i>Mortierella alpina</i> (Abstract 25)</i>
11:00 AM	Tamas Oravecz: <i>Characterization of Bioactive Lipid Pathways for Therapeutic Application: Identification of Sphingosine-1-Phosphate Lyase as a Potential Target for Autoimmune Disease (Abstract 21)</i>	Robert C. Murphy: <i>Efficiency of cysteinyl leukotriene biosynthesis in vivo by transcellular mechanisms (Abstract 26)</i>
11:20 AM	Pieter B. van Loenen: <i>Mutation of a tyrosine residue in transmembrane domain II (Y2.57) of the SIP1 receptor differentially affects agonist-induced signalling (Abstract 22)</i>	Claus Schneider: <i>Recent investigations into the convergence of the 5-LOX and COX-2 pathways (Abstract 27)</i>
11:40 AM	Samar Hammad: <i>Mass spectrometry for screening sphingolipid profile in human plasma: identification of irregular profile in disease (Abstract 23)</i>	Oswald Quehenberger: <i>Eicosanomics approach to identify bioactive lipid mediators in innate immunity (Abstract 28)</i>

Lunch Break: 12 Noon to 1:00 PM

Tuesday, October 27, 2009 program continued on next page

Tuesday, October 27, 2009 continued...

<i>Time</i>	Session 5: <i>Lipid Mediator Signaling in Inflammation and Disease I</i> (MAYA BALLROOMS 1&2)	Session 6: <i>Young Investigator Award Nominees</i> (MAYA BALLROOMS 3&4)
	Chairs: Yasuyuki Igarashi & Viswanathan Natarajan	Chairs: Krishna Rao Maddipati & K. Sandeep Pabhu
1:00 PM	Yasuyuki Igarashi: <i>Ceramide synthesis and signaling in the skin</i> (Abstract 29)	1:00 PM: Anthony Ashton: <i>TPβ Controls Angiogenesis Through Direct Interaction With and Change in the Subcellular Localization of Connexin 43</i> (Abstract 34)
1:30 PM	Viswanathan Natarajan: <i>Sphingosine-1-phosphate lyase is a novel target for sepsis-induced lung inflammation and injury</i> (Abstract 30)	1:25 PM: Nicolas Flamand: <i>The Endocannabinoid 2-Arachidonoyl-glycerol Activates Human Eosinophils Through Several Mechanisms: Importance of Eicosanoids</i> (Abstract 35)
2:00 PM	Janusz Kabarowski: <i>Modulation of high-density lipoprotein by the lipid-sensitive G protein-coupled receptor, G2A, in atherosclerosis and autoimmune disease</i> (Abstract 31)	1:50 PM: Venkatakrishna Jala: <i>Novel strategies in targeting G-protein coupled leukotriene B4 receptors, BLT1 and BLT2 for inflammatory diseases</i> (Abstract 36)
2:20 PM	Tom McIntyre: <i>Bioactive Oxidized Phospholipids Circulate During Chronic Ethanol Ingestion as Inflammatory Biomarkers</i> (Abstract 32)	2:15 PM: Akiko Maekawa: <i>The negative regulatory role of GPR17 in CysLT1R-mediated allergen-induced pulmonary inflammation</i> (Abstract 37)
2:40 PM	Hiroyuki Arai: <i>Identification of acyltransferases responsible for arachidonic acid incorporation into membrane phospholipids</i> (Abstract 33)	2:40 PM: Jashim Uddin: <i>Cytostatic activity of NSAIDδpodophyllotoxin conjugates</i> (Abstract 38)

Coffee break: 3:00 PM (30 min)

<i>Time</i>	Session 7: <i>Eicosanoids in Development and Immunity</i> (MAYA BALLROOMS 1&2)	Session 8: <i>Lipid Mediators of Inflammation and Resolution III</i> (MAYA BALLROOMS 3&4)
	Chairs: Hartmut Kuhn & Richard Phipps	Chairs: Charles N. Serhan & Laszlo Vigh
3:30 PM	Hartmut Kuhn: <i>Regulation of eicosanoid biosynthesis in mouse embryo development</i> (Abstract 39)	Charles N. Serhan: <i>Resolvins Activate Inflammation-Resolution Programs: A Systems Approach to Resolution</i> (Abstract 44)
4:00 PM	Richard Phipps: <i>Activated human B lymphocytes express cyclooxygenase-2 (Cox-2) and Cox-2 inhibitors blunt antibody production: Implications for vaccination and immunity</i> (Abstract 40)	Laszlo Vigh: <i>Stress protein response from membranes and back to membranes: lipid rafts at the crossroad</i> (Abstract 45)
4:30 PM	Kazushige Yokota: <i>Modulation of adipogenesis program in cultured preadipocytes transfected stably with cyclooxygenase isoforms in the sense or antisense orientation</i> (Abstract 41)	Iolanda Fierro: <i>Modulation of survival pathways by aspirin-triggered lipoxin in human monocytes</i> (Abstract 46)
4:50 PM	Peter Krieg: <i>Mouse knockout models reveal an essential role of Alox12b and Alox3 for epidermal barrier function and terminal differentiation in skin</i> (Abstract 42)	Barry Rubin: <i>Group V secreted phospholipase A2 in bronchial epithelial cells regulates leukocyte recruitment and bacterial clearance after lung infection with E Coli</i> (Abstract 47)
5:10 PM	K. Sandeep Prabhu: <i>Targeting of cancer stem cells with cyclopentenone prostaglandin J2 in a Friend erythroleukemia model</i> (Abstract 43)	Luigi Macchia: <i>Five-lipoxygenase/leukotriene pathway inhibition by caffeic acid phenethyl ester, caffeic acid and chlorogenic acid, natural products with anti-oxidant and anti-inflammatory properties</i> (Abstract 48)

GALA DINNER

JW Marriot Hotel (next door to the CasaMagna)

Outdoor: *Poor-side Seaside Garden*

Cocktails - 7:00 - 7:30 PM Dinner - 7:30 - 10:00 PM

Presentation of Outstanding Achievement Award

by Dr. Charles N. Serhan

to:

Dr. Edward J. Goetzl, MD

Sponsored by AVANTI Polar Lipids, Inc.

Announcement and presentation of

Young Investigator Awards

Sponsored by ENZO Life Sciences

and

Santosh Nigam Memorial Outstanding Young Scientist Award

Sponsored by Santosh Nigam Memorial Fund

by Dr. Kenneth V. Honn

Wednesday, October 28, 2009

PLENARY SESSION 3

Venue: MAYA BALLROOMS 1&2

Session Chair: Kenneth V. Honn

8:00 AM	<i>Lipoxins: promoting resolution, suppressing fibrosis?</i> (Abstract 49)	Catherine Godson, PhD
8:50 AM	<i>Fragment-based cancer drug discovery</i> (Abstract 50)	Stephen W. Fesik, PhD

Coffee break: 9:40 AM (20 min)

<i>Time</i>	Session 9: Oxidative Stress and Lipid Biochemistry (MAYA BALLROOMS 1&2)	Session 10: Lipids in Cancer Progression (MAYA BALLROOMS 3&4)
	Chairs: Ginger Milne & Robert G. Salomon	Chairs: Susan Fischer & Amy Fulton
10:00 AM	Ginger Milne: <i>Levels of prostaglandin E metabolite and leukotriene E4 are increased in the urine of smokers. Evidence that Celecoxib shunts arachidonic acid into the 5-lipoxygenase pathway</i> (Abstract 51)	Susan Fischer: <i>Impact of dietary energy balance on chronic pancreatitis that progresses to pancreatic ductal adenocarcinoma in a murine model</i> (Abstract 56)
10:30 AM	Robert G. Salomon: <i>Isolevuglandins covalently modify ethanolamine phospholipids: LC-MS/MS detection and quantitative analysis of hydroxylactam adducts as an index of chronic inflammation</i> (Abstract 52)	Amy Fulton: <i>Opposing roles of the prostaglandin receptors EP1 and EP4 in controlling breast cancer metastasis</i> (Abstract 57)
11:00 AM	Sean Davies: <i>Phosphatidylethanolamine is modified by isoketals in cells and contributes to isoketal induced cytotoxicity</i> (Abstract 53)	Haribabu Bodduluri: <i>Leukotriene B4 receptor-1 mediates the interplay of inflammation and infection in intestinal carcinogenesis</i> (Abstract 58)
11:20 AM	Khosrow Kashfi: <i>Ester-protected hydroxy benzyl phosphates (EHBP) as bioactivated selectively reactive chemotherapeutic agents</i> (Abstract 54)	Charles Brown: <i>Blockade of the leukotriene receptor BLT1 increases the severity and duration of arthritis in a murine model of Lyme disease</i> (Abstract 59)
11:40 AM	Richard Kulmacz: <i>Polymorphic human prostaglandin H synthase-2 proteins: interactions with cyclooxygenase substrates and inhibitors</i> (Abstract 55)	Shuntaro Hara: <i>Involvement of microsomal prostaglandin E synthase-1 (mPGES-1) in Alzheimeris disease.</i> (Abstract 60)

Lunch Break: 12 Noon to 1:00 PM

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Wednesday, October 28, 2009 *continued...*

Time	Session 11: <i>Lipid Mediator Biosynthetic Enzymes</i> (MAYA BALLROOMS 1&2) Chairs: Thomas Eling & Olivier Boutaud	Session 12: <i>Lipid Mediators of Inflammation and Resolution IV</i> (MAYA BALLROOMS 3&4) Chairs: Karsten Gronert & Valerie O'Donnell
	1:00 PM	Thomas Eling: <i>Changes in gene expression by Cox inhibitors and cancer prevention</i> (Abstract 61)
1:30 PM	Olivier Boutaud: <i>Formation of thromboxane A2 and 12-hydroxyeicosatetraenoic acid are differentially regulated by the two receptors for thrombin in human platelets</i> (Abstract 62)	Valerie O'Donnell: <i>Lipoxygenases generate multiple families of oxidized phospholipids in several human and murine immune cells</i> (Abstract 67)
2:00 PM	Antonio Di Gennaro: <i>Expression of 5-lipoxygenase pathway in human abdominal aortic aneurysm</i> (Abstract 63)	Gertrud Lund: <i>Modulation of DNA methylation patterns by dietary fatty acids in vitro and in vivo</i> (Abstract 68)
2:20 PM	Luc Boudreau: <i>Variants of 5-lipoxygenase impact on leukotriene biosynthesis.</i> (Abstract 64)	Theodore Holman: <i>Allosteric regulation of human 15-lipoxygenases by lipoxygenase products affects their substrate specificity</i> (Abstract 69)
2:40 PM	Walther Matthias: <i>Structural basis for the reaction specificity of mammalian lipoxygenases and the impact of pH-alterations</i> (Abstract 65)	Nan Chiang: <i>Lipoxin A₄ rescues the resolution deficit caused by local anesthetics</i> (Abstract 70)

Coffee break: 3:00 PM (30 min)

Time	Session 13: <i>Lipid Mediator Signaling in Inflammation and Disease II</i> (MAYA BALLROOMS 1&2) Chairs: Kenneth V. Honn & Yusuf Hannun	Session 14: <i>Lipid Regulation of Nuclear Hormone Receptors</i> (MAYA BALLROOMS 3&4) Chairs: Laszlo Nagy & Karin Müller-Decker
	3:30 PM	Kenneth V. Honn: <i>β4 integrin ligation regulates 12 lipoxygenase activity through src kinase pathway</i> (Abstract 71)
4:00 PM	Yusuf Hannun: <i>Role of acid sphingomyelinase in mediating effects of TNF and IL-1 on pro-inflammatory chemokines</i> (Abstract 72)	Karin Müller-Decker: <i>Cyclooxygenase 2-driven inflammation in pancreatic cancer</i> (Abstract 77)
4:30 PM	Berit Johansen: <i>A role for arachidonic acid in platelet activating factor induced keratinocyte re-epithelialisation</i> (Abstract 73)	Hiroyasu Inoue: <i>Carvacrol and other components of essential oils activate PPARs and suppress COX-2 expression</i> (Abstract 78)
4:50 PM	Gary Weisinger: <i>Pharmacological 12-Lipoxygenase Inhibition and Rescue in Human Smooth Muscle Cell (HSMC) Mediate Apoptosis through BCL2/BAX Differential Subcellular Expression</i> (Abstract 74)	Dipak Panigrahy: <i>Control of cancer and metastasis by endothelial-derived epoxyeicosatrienoic acids</i> (Abstract 79)
5:10 PM	Austin Guo: <i>The CYP4A-20-HETE System in Regulation of Cord Blood Derived Progenitor Cells with EPC Characteristics</i> (Abstract 75)	Mong-Heng Wang: <i>Inhibition and deletion of soluble epoxide hydrolase alleviates hyperglycemia in diabetic mice through promoting insulin secretion</i> (Abstract 80)

Conference Adjourns at 5:30 PM Wednesday, October 28, 2009