

SCIENTIFIC PROGRAM

10th International Conference

on

Bioactive Lipids in Cancer,
Inflammation, and Related
Diseases

September 16 – 19, 2007

Montreal, Canada

Sunday, September 16, 2007

Registration opens: 8:00 A.M.

FOYER DE BAL EST / FOYER BALLROOM EAST

Venue: SALLE DE BAL CENTRE / BALLROOM CENTRE

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

Keynote address

Introduction of Keynote speaker by Dr. Kenneth V. Honn

1:15 PM **Michael Karin, Ph.D.**
Professor, University of California at San Diego, CA
How inflammation affects cancer development and progression:
The IKK complex and beyond (Abstract #1)

Life-time Achievement Award Lecture

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

2:10 PM **John A. Oates, MD**
Thomas F Frist Sr Professor of Medicine, Vanderbilt-Ingram Cancer Center
Pharmacologic and Genetic Regulation of Eicosanoid Biosynthesis (Abstract# 2)

3:00 PM **Coffee break**

INAUGURAL SESSION

Lipid Networks, Databases, and Bioinformatics

Session Chairs: Edward A. Dennis & Santosh Nigam

3:20 PM	<i>Integrating genetics and genomics to identify inflammatory pathways triggered by oxidized phospholipids (Abstract# 3)</i>	Aldons Lusic, Ph.D.
4:10 PM	<i>Sphingolipid analysis by tandem mass spectrometry and a new approach for pathway visualization (Abstract# 4)</i>	Alfred H. Merrill, Jr., Ph.D.
5:00 PM	<i>Lipidomics Bioinformatics and Systems Biology of Macrophage Networks (Abstract# 5)</i>	Shankar Subramaniam, Ph.D.

Opening reception: 6:00 – 8:30 PM

Altitude 737, 1 Place Ville Marie, Suite 4340, Montreal
Cocktails & Hors d'oeuvres

Monday, September 17, 2007

PLENARY SESSION 1

SALLE DE BAL OUEST / BALLROOM WEST

Session Chair: Edward A. Dennis, Ph.D.

8:00 AM	<i>The lipid whisker model of macrophage pattern recognition</i> (Abstract# 6)	Stanley Hazen, MD, Ph.D.
8:50 AM	<i>The role of neuraxial lipid mediators in pain transmission</i> (Abstract# 7)	Tony L. Yaksh, Ph.D.

Coffee break: 9:40 AM (20 min)

Time	Session 1: <i>Neuroinflammation, inhibition profiling, and eicosanoid lipidomics</i> SALLE DE BAL OUEST / BALLROOM WEST	Session 2: <i>Dietary fat-gene interaction in cancer and other diseases</i> SALLE DE BAL EST / BALLROOM EAST	Session 3: <i>Enzymes of eicosanoid biosynthesis - Regulation and structure</i> SALON 6&7, 3 rd Floor
	Chairs: Edward A. Dennis and Nicolas Bazan	Chairs: Yong Chen & Steven Kridel	Chairs: Wolfgang Dubiel & Hartmut Kuhn
10:00 AM	Nicolas Bazan: <i>DHA-neuroprotectin D1 signaling supports cell integrity through neurotrophins and during photoreceptor renewal</i> (Abstract 8)	Steven Kridel: <i>The role of endogenous fatty acid synthesis in tumor cells</i> (Abstract 13)	Wolfgang Dubiel: <i>The COP9 signalosome regulates the ubiquitin- and proteasome-dependent degradation of COX-2</i> (Abstract 18)
10:30 AM	Edward A. Dennis: <i>Profiling Inflammatory Mediators Initiated by Phospholipase A₂ Through Eicosanoid Lipidomics</i> (Abstract 9)	Yong Chen: <i>Modulation of Prostate Cancer Genetic Risk by Omega-3 and Omega-6 Fatty Acids</i> (Abstract 14)	Hartmut Kuhn: <i>Crystal structure and expression regulation of endogenous COX/LOX inhibitor phospholipids hydroperoxide glutathione peroxidase (GPx4). Its role in embryonic brain development and neuro injury</i> (Abstract 19)
11:00 AM	George Kokotos: <i>Selective inhibition of secreted phospholipase A₂ by 2-oxoamides based on α- or β-amino acid esters</i> (Abstract 10)	William Lands: <i>Eicosanoid Precursors in Primary Prevention</i> (Abstract 15)	Jan Saam: <i>Molecular dioxygen enters the active site of 12/15-lipoxygenase via dynamic oxygen access channels</i> (Abstract 20)
11:20 AM	Makoto Murakami: <i>Biological actions of group III phospholipase A₂, an atypical sPLA₂, in vivo</i> (Abstract 11)	Peiying Yang: <i>Antitumor Activity of Fish Oils against Human Lung Cancer Is Associated with Altered Formation of PGE₂ And PGE₃ And Regulation of AKT Phosphorylation</i> (Abstract 16)	Ewa Skrzypczak-Jankun: <i>Low resolution structure and functional properties of recombinant human platelet 12-lipoxygenase</i> (Abstract 21)
11:40 AM	Christopher Thomas: <i>12-lipoxygenase generates four hydroxy-phosphatidylethanolamines in human platelets</i> (Abstract 12)	Uddhav Kelavkar: <i>Prostate tumor growth can be inhibited by dietarily targeting the 15-lipoxygenase (LO)-1 and cyclooxygenase (COX)-2 enzymes</i> (Abstract 17)	Mitsuaki Sugahara: <i>Crystal structure of prostaglandin E₂-specific mouse monoclonal antibody Fab-fragment complex with prostaglandin E₂</i> (Abstract 22)

Lunch Break followed by Poster Tours: 12 Noon to 6:00 P.M.

Monday, September 17, 2007 program continued on next page

Poster Session

Monday, September 17, 2007

SALLE DE BAL CENTRE / BALLROOM CENTRE

Viewing Time: 9:00 AM – 6:00 PM

Discussion Time: 2:00 – 6:00 PM

Abstract	Presenting Author	Title
120	Anthony Ashton	<i>Thromboxane A₂ receptors manipulate the responsiveness of endothelial cells to VEGF to control tumor growth and angiogenesis</i>
121	Sreeparna Banerjee	<i>Effects of bioactive lipids on the cellular characteristics of colorectal cancer cells HCT-116</i>
122	Ninib Baryawno	<i>Simultaneous expression of cyclooxygenase-2, microsomal prostaglandin E synthase-1 and prostaglandin E₂ synthesis in medulloblastoma promote tumour growth and provide new options for targeted therapy</i>
123	Belen Carrillo-Rivas	<i>Resolvin E1 Affects T Cell Functions in vivo and ex vivo</i>
124	Anna Blobaum	<i>Select derivatives of the non-steroidal anti-inflammatory drugs flufenamic acid and diclofenac mediate cell death in colon cancer cells irrespective of COX inhibition</i>
125	Charles Brink	<i>The oral cavity and age: a site of chronic inflammation.</i>
126	Thomas Brock	<i>Fatty acid-regulated proteins: Arachidonic acid binds 14-3-3ζ, releases 14-3-3ζ from phosphorylated BAD and induces aggregation of 14-3-3ζ.</i>
127	Matthew Buczynski	<i>Eicosanoid profiling of the progression of the inflammatory response to infection from the Lyme disease bacterium</i>
128	John Burke	<i>Interactions of secreted and cytosolic phospholipase A₂ with Ca²⁺ and phospholipids studied using deuterium exchange mass spectrometry</i>
129	Erica Carrier	<i>Characterization of covalent DNA adducts formed by reaction with levuglandin</i>
130	Aracely Chavez-Pina	<i>Gastroprotective mechanism of acemetacin, a non-selective NSAID with the same efficacy than indomethacin, its active metabolite.</i>
131	George Chen	<i>Inhibition of thromboxane synthase induces apoptosis of lung cancer cells</i>
132	Ulrika Christerson	<i>Tumour necrosis factor-α up-regulates protease-activated receptor-2 and potentiates trypsin-stimulated arachidonic acid mobilisation by cytosolic phospholipase A₂ in intestinal myofibroblasts</i>
133	Rupal Deva	<i>Activation of the COX-2 gene in vulvovaginal candidiasis is triggered by candidal phospholipase A₂: specific role of 14-3-3 protein</i>
134	Peter Dieter	<i>Effects of exogenous prostaglandin E₂ on human mesenchymal stem cells</i>
135	Sylvain Dore	<i>Prostacyclin (PGI₂) receptors reduce hippocampal delayed neuronal cell death following global ischemia</i>
136	Sylvain Dore	<i>PGE₂ EP3 receptor contributes to brain damage after cerebral ischemia</i>
137	Hassan Fahmi	<i>PGD₂ downregulates MMP-1 and MMP-13 expression in human chondrocytes.</i>
138	Hassan Fahmi	<i>Proinflammatory mediators downregulate Peroxisome Proliferator-Activated Receptor gamma1 expression in synovial fibroblasts.</i>
139	Santiago Farias	<i>Production of pro- and anti-inflammatory lipid mediators during rat brain ischemia.</i>
140	Iolanda Fierro	<i>Aspirin-triggered lipoxin A₄ block NAD(P)H oxidase in endothelial cells: a novel antioxidative mechanism</i>
141	Debbie Fischer	<i>Oxytocin, prostaglandin F_{2α} and thromboxane-induced calcium mobilisation and contractility of isolated human myometrium from term pregnant donors</i>
142	Nicolas Flamand	<i>The phosphorylation of 5-Lipoxygenase on Ser-271: correlation with its localisation in the nucleus and partial role of the p38 pathway.</i>
143	Mona Gauthier	<i>COX-2 identifies two populations in DCIS with differential risk for subsequent disease</i>
144	Miguel Á. Gijón	<i>Transcellular metabolism of leukotrienes in myeloid cells</i>
145	Helena Gleissman	<i>Omega-3 docosahexaenoic acid is toxic to neuroblastoma cells in vitro and in vivo, and could potentially be used as adjuvant treatment for children with cancer</i>
146	Markus Griesser	<i>COX-2 catalyzed oxygenation of the cancer chemopreventive agent curcumin</i>

Abstract	Presenting Author	Title
147	Karsten Gronert	<i>Dietary omega-3 PUFA shift the renal lipid autacoid profile to DHA-derived NPD1 and resolvins which are renoprotective and associated with increased surgical survival.</i>
148	Geneviève Hamel-Coté	<i>Differential regulation of platelet-activating factor receptor signal transduction by protein tyrosine phosphatases, PTPN1 and PTPN2.</i>
149	Russell Hart	<i>The Development of a Supersensitive Prostaglandin F_{2α} EIA Kit for Difficult Biological Samples</i>
150	Oliver Haworth	<i>Decreased expression of lipoxin A₄ receptors on human leukocytes corresponds to severity of asthma</i>
151	Pierre-Olivier Héту	<i>Demonstration of the oligomeric structures of microsomal prostaglandin E₂ synthase-1 and cyclooxygenase-2 in intact cells using a photo-activable methionine analogue</i>
152	Dagmar Heydeck	<i>Gene expression regulation of human monocytes in response to stimulation with pro- and anti-inflammatory eicosanoids</i>
153	Dawn Holt	<i>Decreased prostaglandin E₂ synthesis or receptor-mediated signaling enables NK cells to limit tumor metastasis</i>
154	Weimin Hou	<i>Rapid identification and quantitation of changes in the platelet activating factor family of glycerophospholipids over the course of neuronal differentiation by high performance liquid chromatography electrospray ionization tandem mass spectrometry</i>
155	Igor Ivanov	<i>The role of N-terminal domain for functionality of mammalian 12/15-LOX</i>
156	Alexandra Medeiros	<i>Leukotrienes - Deficient Mice Exacerbates Pulmonary Histoplasmosis</i>
157	Fredrik Jernerén	<i>Reaction mechanism of linoleic acid diol synthases and dioxygenases of two pathogenic fungi, Magnaporthe grisea and Aspergillus fumigatus</i>
158	Mitsuo Jisaka	<i>Comparison of the substrate-binding sites of mouse 8-lipoxygenase and human 15-lipoxygenase-2 based on oxygenation of methyl arachidonate and methyl linoleate</i>
159	Daisuke Kamei	<i>Role of microsomal prostaglandin E synthase-1 (mPGES-1) in tumor growth and metastasis.</i>
160	Sofia Karlsson	<i>Requirement of cyclooxygenase 2 and cytosolic phospholipase A₂ for prostaglandin E₂ production in human monocytes</i>
161	Khosrow Kashfi	<i>Flurbiprofen benzyl nitrate (FBN) modulates β-catenin expression and inhibits growth of human epidermoid carcinoma A-431 cells</i>
162	Kie Kasuga	<i>Novel mechanisms in resolution: Rapid utilization of circulating EPA and DHA in murine exudates for resolvins and protectins</i>
163	Uddhav Kelavkar	<i>Alterations in genes from the prostate of FLiMP transgenic mouse model of prostatic intraepithelial neoplasia (PIN)</i>
164	Philip Kingsley	<i>Effect of Microwave Irradiation on Eicosanoid Levels in Murine Brain Tissue</i>
165	Fumiaki Kojima	<i>Reduction of incidence and severity of collagen-induced arthritis is correlated to a marked reduction of anti-collagen antibodies in microsomal prostaglandin E synthase-1 null mice</i>
166	Mohit Kapoor	<i>Microsomal prostaglandin E synthase-1 genetic deletion is associated with impaired inflammation, re-epithelialization and angiogenesis during normal wound healing</i>
167	Veera Konda	<i>THIAA, a pathway selective multiple protein kinase inhibitor, has potent anti-inflammatory efficacy in vitro and in vivo</i>
168	Amna Kooli	<i>Trans-arachidonic acids induce microvascular degeneration via early activation of GPR40 receptor</i>
169	France Landry	<i>Tissue desaturation index to evaluate SCD-1 inhibitors.</i>
170	Jean-François Larrivé	<i>Endocytosis and trafficking of cysteinyl-leukotriene receptor 1</i>
171	Stefan Laufer	<i>The dual COX/LOX inhibitor licofelone inhibits the inducible microsomal prostaglandin E₂ synthase (mPGES)-1</i>
172	Sangderk Lee	<i>NADPH Oxidase (NOX) is an important regulator of oxPAPC-induced gene expressions in human aortic endothelial cell</i>
173	Julie Lefebvre	<i>Endogenous leukotriene B₄ and platelet-activating factor regulate lipopolysaccharide-induced neutrophil recruitment</i>

Abstract	Presenting Author	Title
174	Yilmaz Mahshid	<i>The expression of 5-lipoxygenase and cysteinyl leukotriene receptor 1 in mantle zone B cells</i>
175	Arturo Mancini	<i>Tristetraprolin: A molecular link in prostaglandin E₂-mediated COX-2 post-transcriptional gene regulation</i>
176	Sylvie Marleau	<i>Cardioprotective effects of concomitant platelet-activating factor and leukotriene B4 receptors blockade in a model of transient left coronary artery ligation in the mouse</i>
177	Kay Marshall	<i>A profile of prostanoids released from non labouring human myometrial tissue at term using liquid chromatography coupled with electrospray ionisation mass spectrometry (ESI-LC-MS)</i>
178	Sarah Matousek	<i>Chronic hippocampal IL-1β expression elevates PGE₂ production in a cyclooxygenase-1 dependent manner</i>
179	Michelle NG	<i>Bioactive oxylipins derived from the ω-3 essential fatty acid, α-linolenic acid</i>
180	Roberto Ciccoli	<i>Oxygenation by COX-2 and 5-, 12- and 15-lipoxygenases of 3-hydroxy-eicosatetraenoic acid, a fungal mimetic of AA, produces a cascade of novel bioactive 3-hydroxy-eicosanoids</i>
181	Rupal Deva	<i>3R-Hydroxy-tetradecaenoic acid (3R-HTDE), a metabolite of Linoleic acid, is a quorum-sensing molecule in Candida albicans</i>
182	Maria-Patapia Zafiriou	<i>Hepoxilin A3 (HXA3) synthase deficiency is causative of a novel X-linked recessive ichthyosis form, termed as Hepoxilin A3 Synthase-linked Autosomal Recessive Ichthyosis (HXARI): a case report</i>
183	Rupal Deva	<i>Involvement of endocannabinoid signaling in malignant transformation and progression of ovarian epithelial cancer: a clinical study</i>
184	Sungwhan F. Oh	<i>Resolvin E₂: A novel EPA-derived anti-inflammatory lipid mediator with distinct site of action</i>
185	Ladan Parhamifar	<i>Trafficking of cysteinyl leukotriene receptor 1 in intestinal epithelial cells</i>
186	Sven-Christian Pawelzik	<i>Mutational analysis of human glutathione-dependent microsomal prostaglandin E synthase 1</i>
187	Camila Peres	<i>Specific leukotriene receptors couple to distinct G proteins to effect stimulation of alveolar macrophage host defense functions</i>
188	Daniel Poeckel	<i>Exploring the role of 12/15-lipoxygenase and 5-lipoxygenase in macrophages using a novel 'triple knockout' mouse model</i>
189	K. Sandeep Prabhu	<i>The regulation of Tat-dependent HIV-1 transcription by 15-deoxy-$\Delta^{12,14}$-prostaglandin J₂</i>
190	Susan Raatz	<i>Assessment of ω-3 fatty acid intake by a simple dietary questionnaire validated with erythrocyte fatty acid levels</i>
191	Robyn Richie-Jannetta	<i>Structural determinants for calcium mobilization by PGE₂ and PGF_{2α} prostaglandin glyceryl esters in RAW 264.7 cells and H1819 cells</i>
192	Simon Rollin	<i>Platelet-Activating Factor (PAF)-induced Suppressors of Cytokine Signaling 3 (SOCS3) downregulate homologous and heterologous signaling pathways.</i>
193	Cecilia Roos	<i>Leukotriene C₄ synthase in chronic myeloid leukemia</i>
194	Barry Rubin	<i>Microsomal prostaglandin E₂ synthase-1 promotes adaptive cardiac remodeling and prevents heart failure after acute myocardial infarction</i>
195	Hee-Yoon Chang	<i>Conditional endothelial PGT knockout mice have higher blood pressures and longer bleeding times than littermate controls</i>
196	Run Lu	<i>Role of the prostaglandin transporter PGT and of the PGF_{2α} receptor FP in the regulation of PPARγ and Cox2 in 3T3 cells</i>
197	Yuling Chi	<i>The prostaglandin transporter PGT regulates signaling by controlling PG metabolism</i>
198	Vladimir Serebrov	<i>Dynamics of liver neutral sphingomyelinase activity and a ratio of contributions peroxidative and phospholipase pathways of modification of lipid bilayer membranes during the acute and chronic toxic hepatitis in rats</i>
199	Vladimir Serebrov	<i>The sphingomyeline cycle activity of liver in dynamics of a chronic toxic hepatitis at rats</i>

Abstract	Presenting Author	Title
200	Vladimir Serebrov	<i>Influence of the sphingomyelin and ceramide, loaded in the liposomes, on proliferation and apoptosis processes at experimental carcinogenesis at rat's liver</i>
201	Swathi Seshadri	<i>Unveiling a pathophysiological role for 15-deoxy-$\Delta^{12,14}$ PGJ₂ in diabetes-related encephalopathy</i>
202	Maryna Mezhybovska	<i>β-catenin increases mitochondria activity in response to LTD₄ stimulation</i>
203	William Smith	<i>Function of the homodimeric structure of cyclooxygenases</i>
204	Ashley Snider	<i>Role for SK1 in Inflammatory Processes Leading to Tumor Development</i>
205	Carlos ArtÈrio Sorgi	<i>Role of TLR2 and CD18 receptors in Lipid body formation induced by β-glucan of <i>Histoplasma capsulatum</i>.</i>
206	Katherine Boulay	<i>Arachidonate distribution in resting and proliferating primary human T cells</i>
207	Takashi Suzuki	<i>Biological activity of a novel 5-LOX/COX-2-derived eicosanoid</i>
208	Min Wan	<i>Leukotriene B₄ triggers release of the cathelicidin LL-37 from human neutrophils ñ novel lipid-peptide interactions in innate immune responses</i>
209	Miao Wang	<i>Deletion of microsomal PGE Synthase-1 decreases oxidative stress and protects against abdominal aortic aneurysm formation in angiotensin II-infused mice</i>
210	Gary Weisinger	<i>12-Lipoxygenase Is Bound to Cellular Procaspase 3 in Vascular Smooth Muscle: A novel Mechanism for Inhibition of Apoptosis</i>
211	Shawn Whitehead	<i>Activation of the G-protein coupled PAF receptor as a result of enhanced synthesis of hexadecyl-PAF inhibits differentiation to a peripheral neuronal phenotype</i>
212	Irene Zagol-Ikapitte	<i>Scavengers of γ-ketoaldehydes inhibit formation of levuglandin adducts on protein in brain in vivo</i>
213	Chenqi Zhao	<i>Expression and function of LPA receptors in synoviocytes from patients with rheumatoid arthritis</i>
214	Ben Zweifel	<i>Biochemical Pharmacology of 5-LOX Inhibitors Using a Modified Rat Air Pouch</i>

Meet the Exhibitors and Mix & Mingle Reception

Familiarize yourself with the participating Exhibitors and their products and services. Connect with old colleagues, make new contacts and enjoy complimentary beverages (wine & beer) in a relaxed environment.

Monday/September 17

Ballroom Foyer

4pm - 6pm

Tuesday, September 18, 2007

PLENARY SESSION 2

SALLE DE BAL OUEST / BALLROOM WEST

Session Chair: Lawrence J. Marnett, Ph.D.

8:00 AM	<i>Recent progress in study of lysophosphatidic acid production (Abstract# 23)</i>	Aoki Junken, Ph.D
8:50 AM	<i>Formation and function of sphingosine 1-phosphate - to the vasculature and beyond (Abstract# 24)</i>	Timothy Hla, Ph.D.

Coffee break: 9:40 AM (20 min)

<i>Time</i>	Session 4: Lysophosphatidic acid targets in cell signaling SALLE DE BAL OUEST / BALLROOM WEST	Session 5: Bioactive lipids in infection, immunity, and inflammation SALLE DE BAL CENTRE / BALLROOM CENTRE	Session 6: Molecular biology of cyclooxygenases SALLE DE BAL EST / BALLROOM EAST
	Chairs: Gabor Tigyi & Jerold Chun	Chairs: Samuel David & Santosh Nigam	Chairs: Thomas Eling & Lawrence J. Marnett
10:00 AM	Jerold Chun: <i>Receptor-mediated lysophospholipid (LP) signaling with relevance to neuropathic pain and multiple sclerosis (Abstract 25)</i>	Samuel David: <i>Differential roles for members of the phospholipase A₂ family in neurological disorders (Abstract 30)</i>	Thomas Eling: <i>Changes in gene expression by Cox inhibitors and cancer prevention (Abstract 35)</i>
10:30 AM	Gabor Tigyi: <i>Inhibition of PPARγ-mediated Neointima Formation by PLD2 (Abstract 26)</i>	Santosh Nigam: <i>Lipid dialogue between pathogen and host cell in candidiasis: impact on pleiotropic expression of genes (Abstract 31)</i>	Lawrence J. Marnett: <i>Cyclooxygenase-2 Targeted Imaging of Cancer (Abstract 36)</i>
11:00 AM	Fang-Tsy Lin: <i>The LPA₂ receptor mediates down-regulation of Siva-1 to promote cell survival (Abstract 27)</i>	Raymond Konger: <i>Inhibition of peroxisome proliferator activated receptor gamma (PPARγ) alters murine epidermal responses to acute ultraviolet B (UVB) irradiation (Abstract 32)</i>	Ke-He Ruan: <i>Innovative Engineering of a Protein with Cyclooxygenase and Prostacyclin Synthase Activities that Converts Arachidonic Acid to Prostacyclin (Abstract 37)</i>
11:20 AM	Genevieve Hansen: <i>Therapeutic potential of an anti-lysophosphatidic acid monoclonal antibody-based approach (Abstract 28)</i>	Jeffrey Travers: <i>Platelet-activating factor is a critical target for ultraviolet B radiation (Abstract 33)</i>	Kazushige Yokota: <i>Biosynthesis of prostaglandins E₂ and F_{2α} anti-adipogenic factors, can be modulated by pro-adipogenic 15-deoxy-$\Delta^{12,14}$-prostaglandin J₂ in cultured preadipocytes (Abstract 38)</i>
11:40 AM	James Thompson: <i>Rapid and convenient assay for the detection of lysophosphatidic acid in biological samples (Abstract 29)</i>	David Aronoff: <i>Misoprostol inhibits female reproductive tract innate immune defenses against Clostridium sordellii (Abstract 34)</i>	Jose L Martos: <i>Prostamide (prostaglandin ethanolamide) Pharmacology and Second Generation Prostamide Antagonists (AGN 211334-6) (Abstract 39)</i>

Lunch Break: 12 Noon to 1:00 PM

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Tuesday, September 18, 2007 *continued...*

<i>Time</i>	Session 7: <i>Bioactive sphingolipids in inflammation and cancer</i> SALLE DE BAL OUEST / BALLROOM WEST	Session 8: <i>Endocannabinoids and bioactive fatty acid amides</i> SALLE DE BAL CENTRE / BALLROOM CENTRE	Session 9: <i>Young Investigator Award Nominees</i> SALLE DE BAL EST / BALLROOM EAST
	Chairs: Lina Obeid & Andreas Billich	Chairs: Vincenzo Di Marzo & Natsuo Ueda	Chairs: Robert C. Murphy & Krishna Rao Maddipati
1:00 PM	Andreas Billich: <i>Sphingolipid metabolizing enzymes as novel drug targets</i> (Abstract 40)	Natsuo Ueda: <i>Enzymes involved in the formation of anandamide and related amide compounds</i> (Abstract 45)	1:00 PM: Manju Bala: <i>Cellular Selectivity of Aspirin : Lipid peroxides as determinant of Inhibition of Prostaglandin H Synthases by Aspirin</i> (Abstract 50)
1:30 PM	Lina Obeid: <i>Bioactive sphingolipids in cancer</i> (Abstract 41)	Vincenzo Di Marzo: <i>Endocannabinoids and bioactive fatty acid amides in cancer and inflammation: an update</i> (Abstract 46)	1:15 PM: Victoria Blaho: <i>Cyclooxygenase-1 is critical for the development of pathogen-specific antibody production</i> (Abstract 51)
2:00 PM	Toshihiko Kawamori: <i>Role of the sphingosine kinase 1/sphingosine-1-phosphate pathway in colon carcinogenesis</i> (Abstract 42)	Pal Pacher: <i>Role of CB2 cannabinoid receptors in endothelial inflammatory response: implications for ischemia-reperfusion injury, atherosclerosis and cardiovascular aging.</i> (Abstract 47)	1:30 PM: Bindi Dangi: <i>Biogenic Synthesis, Purification and Chemical Characterization of Anti-inflammatory Oxylipins Derived from Docosapentaenoic Acid (DPAn-6)</i> (Abstract 52)
2:30 PM	Victor Schuster: <i>PGE₂ and intestinal proliferation and differentiation: role of the PG transporter PGT and 15-OH PG dehydrogenase (PGDH)</i> (Abstract 43)	Yanbin Liang: <i>Prostanoid FP wild type-FP Variant Receptor Complexes Exhibit Pronounced Functional Responses to the Prostanoid F_{2α} Analog Bimatoprost</i> (Abstract 48)	1:45 PM: Nabil Foudi: <i>Role of cyclooxygenase-2 in the human vascular tone</i> (Abstract 53)
2:50 PM	Richard Phipps: <i>CpG oligodeoxynucleotides induce cyclooxygenase-2 and prostaglandin synthesis in human B lymphocytes: Implications for innate immunity and inflammation</i> (Abstract 44)	Maria-Patapia Zafiriou: <i>Eicosanoids and transient receptor potential vanilloid type 1 (TRPV1) channels: Is 3-hydroxy-eicosatetraenoic acid (3-HETE), a fungal mimetic of AA, an endovanilloid?</i> (Abstract 49)	2:00 PM: Florian Gruber: <i>Oxidized phospholipids that are generated in UVA-1 irradiated dermal fibroblasts mediate biological responses to UVA-1 via the redox sensitive transcription factor Nrf2</i> (Abstract 54)
			2:15 PM: Michael Moos: <i>Expression pattern and function of the CysLT₂R</i> (Abstract 55)
			2:30 PM: Roberto Nicolette: <i>Leukotriene B₄ released from microspheres promotes leukocyte-endothelial cell interactions in the mice cremasteric microcirculation and chemokine release by human endothelial cells</i> (Abstract 56)
			2:45 PM: K. Sandeep Prabhu: <i>Differential regulation of expression of thromboxane and prostaglandin synthases, TXS, mPGES-1, and H-PGDS, by selenium in macrophages</i> (Abstract 57)

Coffee break: 3:10 PM (20 min)

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Tuesday, September 18, 2007 *continued...*

<i>Time</i>	Session 10: <i>Sphingosine-1-phosphate in health and disease</i> SALLE DE BAL OUEST / BALLROOM WEST	Session 11: <i>Eicosanoid biosynthesis and oxidative stress</i> SALLE DE BAL CENTRE / BALLROOM CENTRE	Session 12: <i>Eicosanoids in disease modulation and inflammation</i> SALLE DE BAL EST / BALLROOM EAST
	Chairs: Edward J. Goetzl & Hugh Rosen	Chairs: Kikuko Watanabe & Khosrow Kashfi	Chairs: Darryl Zeldin & Hans- Erik Claesson
3:30 PM	Edward J. Goetzl: <i>Control of T cell-mediated immunity and autoimmunity by the SIP-SIP1 axis (Abstract 58)</i>	Kikuko Watanabe: <i>Enzymes in the Arachidonic Acid Cascade Belonging to a New Family With a C-X-X-C Motif (Abstract 63)</i>	Darryl Zeldin: <i>Cytochrome P450 metabolites and cardiovascular disease (Abstract 68)</i>
4:00 PM	Hugh Rosen: <i>Signaling lipid control of biological barriers (Abstract 59)</i>	Khosrow Kashfi: <i>The mechanism of action of nitric oxide-releasing aspirin involves quinone methides, carbocations, and oxidative stress: Implications for cancer prevention. (Abstract 64)</i>	Hans-Erik Claesson: <i>Eoxins - novel proinflammatory arachidonic acid metabolites produced via the 15-lipoxygenase-1 pathway in human eosinophils and mast cells (Abstract 69)</i>
4:30 PM	Sherry Niessen: <i>The Identification and Functional Characterization of an Enzyme That Regulates Ether Lipid Signaling Pathways in Cancer (Abstract 60)</i>	Olivier Boutaud: <i>The processing of the amyloid precursor protein is regulated by prostanoids in human platelets (Abstract 65)</i>	Anthony Ashton: <i>Thromboxane A₂ is a key regulator of pathogenesis during Trypanosoma cruzi infection (Abstract 70)</i>
4:50 PM	Pu Xia: <i>Sphingosine kinase-1, a potential therapeutic target for breast cancer (Abstract 61)</i>	Karin Müller-Decker: <i>Increased oxidative stress response in mouse urinary bladder with keratin 5 promoter-driven COX-2 overexpression (Abstract 66)</i>	Nan Chiang: <i>Resolvin E1 and protectin D1: novel omega-3 mediators activate resolution programs (Abstract 71)</i>
5:10 PM	Laura Riboni: <i>Sphingosine-1-phosphate/ceramide ratio is related to acquired temozolomide resistance in human malignant glioma cell lines (Abstract 62)</i>	Jason Fritz: <i>Alveolar macrophages attenuate murine epithelial cell prostaglandin production and augment growth (Abstract 67)</i>	Pallavi Devchand: <i>Tracking drug-sensitive routes to preventative medicine (Abstract 72)</i>

GALA DINNER

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

Atrium / Ballroom - 4th Floor, La Sheraton Centre Hotel

Presentation of Outstanding Achievement Awards

by Dr. Charles N. Serhan

to:

Dr. Robert C. Murphy and Dr. Pierre Borgeat

Sponsored by Bayer Schering Pharma AG Berlex

Announcement and presentation of Young Investigator Awards

by Dr. Kenneth V. Honn

Sponsored by Biomol Research Labs, Inc.

Wednesday, September 19, 2007

PLENARY SESSION 3

SALLE DE BAL OUEST / BALLROOM WEST

Session Chair: Santosh Nigam, MD, Ph.D.

8:00 AM	<i>Mapping Lipid Signaling Networks in Cancer by Integrated Proteomics and Metabolomics (Abstract# 73)</i>	Benjamin F. Cravatt, III, Ph.D.
8:50 AM	<i>Structural properties of membrane associated proteins in eicosanoid and glutathione metabolism (Abstract# 74)</i>	Herbert Hans, Ph.D.

Coffee break: 9:40 AM (20 min)

<i>Time</i>	Session 13: <i>Fatty Acid Oxidation Products as Regulators of Cell Function</i> SALLE DE BAL OUEST / BALLROOM WEST	Session 14: <i>Enzymes involved in eicosanoid production and lipid remodeling-1</i> SALLE DE BAL CENTRE / BALLROOM CENTRE	Session 15: <i>Bioactive sphingolipids in cell regulation</i> SALLE DE BAL EST / BALLROOM EAST
	Chairs: Jason Morrow & Robert G. Salomon	Chairs: Jesper Z. Haeggstrom & Charles N. Serhan	Chairs: Mariana Nikolova-Karakashian & Yusuf Hannun
10:00 AM	Robert G. Salomon: <i>Oxidatively truncated phospholipids: generation, protein adduction and biological activities of hydroxyalkenal phospholipids (Abstract 75)</i>	Jesper Z. Haeggstrom: <i>Structure and mechanism of human leukotriene C₄ synthase, an integral membrane protein in allergic inflammation and immune regulation (Abstract 80)</i>	Mariana Nikolova-Karakashian: <i>Role of Hepatic Neutral Sphingomyelinase in Aging and Inflammation (Abstract 85)</i>
10:30 AM	Jason Morrow: <i>The Isoprostanes as Both Pro- and Anti-Inflammatory Mediators of Oxidant Stress (Abstract 76)</i>	Charles N. Serhan: <i>Endogenous Pro-Resolving Lipid Mediators: A New Genus of Anti-Inflammatories (Abstract 81)</i>	Yusuf Hannun: <i>Neutral Sphingomyelinase in TNF Action (Abstract 86)</i>
11:00 AM	Robert Newman: <i>Comprehensive cell and tissue "inflammation profiling" with LC/MS/MS targeted eicosanomics (Abstract 77)</i>	Lijun Wu: <i>Resolvins: potential therapeutics for the treatment of inflammatory diseases (Abstract 82)</i>	Hiroyasu Inoue: <i>Resveratrol: a selective suppressor of COX-2 expression and an activator for PPARs (Abstract 87)</i>
11:20 AM	Vincent Dioszeghy: <i>Endogenous 12/15-lipoxygenase in murine resident peritoneal macrophages modulates multiple aspects of the inflammatory response and generates novel oxidized phosphatidylethanolamine lipids in vivo (Abstract 78)</i>	Karsten Gronert: <i>DHA-derived NPD1 is prominent endogenous autacoid in the human and mouse cornea that regulates inflammatory angiogenesis (Abstract 83)</i>	Vladimir Serebrov: <i>Activity of sphingomyelinase cycle enzymes and concentration of products of sphingomyelin degradation in a liver of rats in the dynamics of acute toxic hepatites (Abstract 88)</i>
11:40 AM	Masahiro Asaeda: <i>A non-enzymatic derived arachidonyl peroxide, 8-iso-prostaglandin F_{2α} participates in the pathogenesis of delayed cerebral vasospasm (Abstract 79)</i>	Luigi Macchia: <i>Leukotriene biosynthesis inhibition and direct 5-lipoxygenase (5-LO) noncompetitive inhibition by the Cys-LT1 receptor antagonists montelukast and zafirlukast. (Abstract 84)</i>	Carlos Serezani: <i>Lipid rafts mediate BLT1 but not CysLT1 signaling and effector functions in alveolar macrophages (Abstract 89)</i>

Lunch Break: 12 Noon to 1:00 PM

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<i>Time</i>	Session 16: <i>Phospholipid oxidation products as regulators of cell function</i> SALLE DE BAL OUEST / BALLROOM WEST	Session 17: <i>Enzymes involved in eicosanoid production and lipid remodeling-2</i> SALLE DE BAL CENTRE / BALLROOM CENTRE	Session 18: <i>Biology and regulation of lipoxygenases</i> SALLE DE BAL EST / BALLROOM EAST
	Chairs: Judith A. Berliner & Norbert Leitinger	Chairs: William Smith & Takao Shimizu	Chairs: Shozo Yamamoto & Wen-Chang Chang
1:00 PM	Norbert Leitinger: <i>The effect of oxidized phospholipids on macrophage phenotype and function</i> (Abstract 90)	William Smith: <i>Two pathways for COX-2 protein degradation</i> (Abstract 95)	Wen-Chang Chang: <i>Effect of post-translational modifications of c-Jun and Sp1 on gene expression of human 12(S)-lipoxygenase</i> (Abstract 100)
1:30 PM	Eugene Podrez: <i>Oxidized phospholipids, CD36 and platelet hyper-reactivity as a mechanism of atherothrombosis</i> (Abstract 91)	Takao Shimizu: <i>Phospholipase A₂ and lysophospholipid acyltransferases (Lands' cycle)</i> (Abstract 96)	Alan R. Brash: <i>Lipoxygenases and the barrier function in skin: The hepxilin connection in the epidermis</i> (Abstract 101)
2:00 PM	Ben Maskrey: <i>12/15-lipoxygenase in activated human monocytes generates four hydroxy-phosphatidylethanolamines</i> (Abstract 92)	Giovanni (John) Di Battista: <i>Regulation of the cyclinD1 promoter activity by prostaglandin E₂ (PGE₂) in arthritis-affected human synovial fibroblasts (HSF): Role of AP-1</i> (Abstract 97)	Peter Krieg: <i>12R-Lipoxygenase is essential for the epidermal barrier function: lessons from autosomal recessive congenital ichthyosis and 12R-lipoxygenase deficient mice</i> (Abstract 102)
2:20 PM	Alwena Morgan: <i>Physical and biological characterization of 15-Hydroxyeicosatetraenoic acid-phosphatidylethanolamine generated by activated human monocytes.</i> (Abstract 93)	Daigen Xu: <i>Pharmacological inhibition of mPGES-1 selectively suppresses PGE₂ and relieves fever and pain</i> (Abstract 98)	Maren Lohse: <i>The role of 12-/15-lipoxygenase in development of osteoporosis: a clinical study</i> (Abstract 103)
2:40 PM	Carol Rouzer: <i>Glycerophospholipid remodeling during zymosan phagocytosis as monitored by mass spectrometric lipid profiling</i> (Abstract 94)	William Powell: <i>Neutrophils metabolize Mead acid to 5-oxo-6,8,11-eicosatrienoic acid, a potent inducer of calcium mobilization and cell migration</i> (Abstract 99)	Ulrike Garscha: <i>Expression and site-directed mutagenesis of linoleate 7,8-diol synthase reveals structural and catalytic similarities to mammalian cyclooxygenase and to oxygenases of Aspergillus nidulans</i> (Abstract 104)

Coffee break: 3:00 PM (30 min)

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<i>Time</i>	Session 19: <i>Eicosanoid receptors in inflammation and disease</i> SALLE DE BAL OUEST / BALLROOM WEST	Session 20: <i>Dietary fatty acids and inflammation</i> SALLE DE BAL CENTRE / BALLROOM CENTRE	Session 21: <i>Bioactive lipids in cancer pathogenesis and inflammation</i> SALLE DE BAL EST / BALLROOM EAST
	Chairs: Susan M. Fischer & Robert Langenbach	Chairs: John Parks & Jay Whelan	Chairs: Besim Ogretmen & Kenneth V. Honn
3:30 PM	Susan M. Fischer: <i>COX-2 and beyond - prostaglandin activated mitogenic signaling in murine keratinocytes</i> (Abstract 105)	John Parks: <i>n-3 fatty acids, inflammation, and cardiovascular disease</i> (Abstract 110)	Besim Ogretmen: <i>Role of Bioactive Sphingolipids in Cancer Pathogenesis and Therapy</i> (Abstract 115)
4:00 PM	Robert Langenbach: <i>The prostaglandin E₂ receptor, EP2, mediates signaling pathways that contribute to mouse skin tumor development</i> (Abstract 106)	Jay Whelan: <i>Determining human equivalent doses of polyunsaturated fatty acids in rodent diets for improved pre-clinical screening for eicosanoid-related chronic diseases</i> (Abstract 111)	Kenneth V. Honn: <i>12-Lipoxygenase and the regulation of prostate cancer angiogenesis under normoxic and hypoxic conditions</i> (Abstract 116)
4:30 PM	Gary Perdew: <i>12(R)HETE is a potent activator of the aryl hydrocarbon (Ah) receptor</i> (Abstract 107)	Bruce Levy: <i>Protectin D1 Is Generated In Asthma And Dampens Airway Responses</i> (Abstract 112)	G.Enrico Rovati: <i>Cross-Modulation of the CysLT1 Receptor: a Network of Integrated Signaling in Inflammation</i> (Abstract 117)
4:50 PM	Xavier Norel: <i>PGE₂ receptor subtypes involved in the human vascular tone and detection of a new mRNA splice variant coding for the human EP3-I isoform</i> (Abstract 108)	Janos Filep: <i>Aspirin-triggered lipoxins override the apoptosis delaying action of serum amyloid A in human neutrophils: A novel mechanism for resolution of inflammation</i> (Abstract 113)	Marek Rola-Pleszczynski: <i>RhoA-dependent chemotactic response to leukotriene B4 is regulated by a dileucine motif in helix VIII of the BLT1 receptor</i> (Abstract 118)
5:10 PM	Shuntaro Hara: <i>Role of prostaglandin E receptor EP1 in bladder carcinogenesis</i> (Abstract 109)	Anna Planaguma: <i>Alterations in lipoxin pathway gene expression are present in severe asthma</i> (Abstract 114)	Daniel Rosenberg: <i>Altered Arachidonic Acid Balance and Colon Cancer</i> (Abstract 119)

Conference Adjourns at 5:30 PM Wednesday, September 19, 2007