

PROGRAM SCHEDULE - DETAILED (only the presenters' names are shown)

	Sunday, September 11, 2005
7:00 - 9:30 PM	OPENING RECEPTION <i>Red Pine Lodge at the top of the tram</i> Open to all attendees and families
	Monday, September 12, 2005
8:00 AM - 8:10 AM	WELCOMING REMARKS <i>Donald Kohan, University of Utah, UT</i>
8:10 AM - 8:25 AM	Sir John Vane - In Memoriam <i>Pedro D'Orleans-Juste, University of Sherbrooke, Canada</i>
8:25 - 10:05 AM	<p>SYNTHESIS AND RECEPTORS <i>Moderators: Tommy Brock, Encysive, USA</i> <i>Anthony Turner, University of Leeds, UK</i></p> <p>8:25 AM Invited Lecture: New concepts in ET metabolism. Pedro D'Orleans-Juste, University of Sherbrooke, Canada</p> <p>8:50 AM O-01 Novel alternatively spliced variant of endothelin converting enzyme-1 lacking a transmembrane domain. Meidan, Rina. Animal Sciences, The Hebrew University of Jerusalem, Rehovot, Israel</p> <p>9:05 AM O-02 Scavenging of plasma ET-1 is mediated by the endothelial cell endothelin B receptors. Kelland, N. University of Edinburgh, Edinburgh, UK</p> <p>9:20 AM O-03 Agonist-dependent and agonist-independent proteolysis of the extracellular N terminus of the endothelin B receptor. Oksche, Alexander. Institut fuer Pharmakologie, Charite Campus Benjamin Franklin, Berlin, Germany and Forschungsinstitut fuer Molekulare Pharmakologie, Berlin, Germany</p> <p>9:35 AM O-04 Spatiotemporal <i>in vivo</i> imaging of the endothelin receptor system using microPET a dedicated positron emission tomography scanner for small animals. Johnstrom, Peter. Clinical Pharmacology Unit, University of Cambridge, Cambridge, UK</p> <p>9:50 AM O-05 Functional analysis of the endothelin-converting enzyme-1a isoform-specific promoter reveals regulation by transcriptional repression. Orzechowski, Hans-Dieter. Clinical Pharmacology and Toxicology, Charite, Berlin, Germany</p>
10:05 - 10:30 AM	COFFEE BREAK
10:30 AM - noon	SIGNALING PATHWAYS <i>Moderators: Subrata Chakrabarti, University of Western Ontario, Canada</i> <i>Andrey Sorokin, Medical College of Wisconsin</i>

	<p>10:30 AM O-06 Involvement of Ca²⁺ Channels in Endothelin-1-Induced MAP Kinase Phosphorylation, Myosin Light Chain Phosphorylation and Contraction in Rabbit Iris. Abdel-latif, Ata. Medical College of Georgia, Augusta, GA</p> <p>10:45 AM O-07 Endothelin 1 induces β1Pix translocation and Cdc42 activation via protein kinase A-dependent pathway. Chahdi, Ahmed. Medicine, Medical College of Wisconsin, Milwaukee, WI</p> <p>11:00 AM O-08 Transforming growth factor-β-receptor signaling in endothelial cells. Requirements for the induction of the human ET-1 gene. Rodriguez-Pascual, Fernando. Molecular Pathophysiology of the Vascular Wall, CNIC, Madrid, Spain</p> <p>11:15 AM O-09 Endothelin-1 activates NADPH oxidase in Pulmonary Arterial Smooth Muscle Cells via a PI3 kinase mediated phosphorylation and translocation of the p47^{phox} subunit. Black, Stephen. Biomedical & Pharmaceutical Sciences, The University of Montana, Missoula, MT</p> <p>11:30 AM O-10 Molecular Mechanisms Controlling Activation of Rap1 by Endothelin-1 in Human Mesangial Cells. Petrukina, Victoriya. Medicine/Nephrology, Medical College of Wisconsin, Milwaukee, WI</p> <p>11:45 AM O-11 Signaling Pathways Regulating ICAM-1 Expression by Endothelin-1: Comparison with Interleukin-1β in normal and scleroderma dermal fibroblasts. Waters, Charlotte. Cardiovascular Division, King's College London, London, UK</p>
<p>Noon - 2:00 PM</p>	<p>LUNCH AND POSTER SESSION I <i>Buffet lunch served in poster area from noon - 1:00 PM.</i></p> <p>P-001 Effects of adipokines on expression of endothelin-1 and adrenomedullin in bovine brain microvascular endothelial cells. Takahashi, Kazuhiro. Department of Analytical Medical Technology, Tohoku University School of Health Sciences, Sendai, Japan</p> <p>P-002 Phosphorylation of endothelin converting enzyme-1 isoforms: relevance to subcellular localization. Ergul, Advije. University of Georgia, Augusta, GA and Vascular Biology Center, Medical College of Georgia, Augusta, GA</p> <p>P-003 Expression and localization of endothelin converting enzyme-1 isoforms in human endothelial cells. Hunter, Alison. Biochemistry and Microbiology, University of Leeds, Leeds, UK</p> <p>P-004 Assay of endothelin converting enzyme using western blotting and autoradiography. Dibas, Adnan. Pharmacology & Neuroscience, University of North Texas Health Science Center at Fort Worth, Fort Worth, TX</p> <p>P-005 Control of the expression of endothelin-1 by AU-rich elements in the 3'-untranslated region of the gene. Rodriguez-Pascual, Fernando. Molecular Pathophysiology of the Vascular Wall, CNIC, Madrid, Spain</p> <p>P-006 Upregulation of endothelin receptor B in human endothelial cells by low-density lipoproteins: role of protein kinase C. Mueller, G. Dept. of Vascular Endothelium and Microcirculation, TU-Dresden, Dresden, Germany</p> <p>P-007 Differential trafficking and desensitization of human ETA and ETB receptors in HEK 293 Cells. Dai, Xiaoling. Michigan State University, East Lansing, MI</p> <p>P-008 The effect of gene transfer of pro-opiomelanocortin on endothelin-1 release in cultured endothelial cells. Lam, Hing-Chung. Department of Medical Education and Research, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan and National Yang-Ming University School of Medicine, Taipei, Taiwan</p> <p>P-009 Evaluating the effect of PKC, JNK, and ERK inhibitors on the upregulation of ETB receptor in rat basilar and mesenteric arteries. Jamali, Roya. Experimental Vascular Research, Clinical Science,</p>

Lund, Sweden

P-010 **Post-transcriptional regulation of endothelin-1: role of verotoxins.** Mawji, Imtiaz. Department of Laboratory Medicine & Pathobiology and Department of Medicine, University of Toronto, Toronto, ON, Canada

P-011 **Cerivastatin, a hydroxymethylglutaryl coenzyme A reductase inhibitor, suppresses endothelin-1 production through the activation of endothelial nitric oxide synthase.** Matsumura, Yasuo. Pharmacology, Osaka University of Pharmaceutical Sciences, Takatsuki, Japan

P-012 **Adenosine triphosphate, via the P2Y2 receptor, inhibits endothelin-1 release from inner medullary collecting duct cells.** Kohan, Donald. Division of Nephrology, Univ. of Utah, Salt Lake City, UT and VAMC, Salt Lake City, UT,

P-013 **cDNA cloning and sequence analysis of preproendothelin-1 from salmon, Oncorhynchus keta.** Saida, Kaname. National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan

P-014 **The combined ECE and neutral endopeptidase inhibitor SLV306 inhibits systemic endogenous conversion of infused big endothelin-1 in human volunteers.** Davenport, Anthony. Clinical Pharmacology Unit, University of Cambridge, Cambridge, UK

P-015 **MAPK, PKC and PI3-K are Involved in Endothelin-1-induced Astrocyte Proliferation.** He, Shaoqing. Pharmacology & Neuroscience, University of North Texas Health Science Center, Fort Worth, TX,

P-016 **The extracellular N terminus of the human endothelin B receptor is required for biphasic ERK1/2 activation and re-differentiation of vascular smooth muscle cells.** Grantcharova, Evelina. Institut fuer Pharmakologie, Charite Campus, Berlin, Germany.

P-017 **Involvement of Rho-associated kinase in endothelin-induced contraction in rat aorta.** Yamamura, Takaki. Food and Nutrition, Morioka College, Takizawa, Japan

P-018 **Gene expression mediated by endothelin-1 in normal and scleroderma dermal fibroblasts.** Waters, Charlotte. Cardiovascular Division, King's College London, London, UK

P-019 **Multiple signaling pathways of endothelin type B receptor in rat median eminence.** Mathison, Yaira. School of Medicine Jose Maria Vargas and School of Pharmacy, Laboratory of Neuropeptides, Universidad Central de Venezuela, Caracas, Venezuela

P-020 **Activation of protein kinase-A by endothelin-1 in vascular smooth muscle cells.** Dulin, Nickolai. The University of Chicago, Chicago, IL

P-021 **The Role of Nitric Oxide and ET-1 in the Pathobiology of Cardiovascular Diseases, Tumors and Neurodegeneration.** Aliev, Gjumrakch. Pathology, Case Western Reserve University, Cleveland, OH

P-022 **The role of endothelin-1 in extracellular matrix remodeling.** Jun, Jae-Bum. The Hospital for Rheumatic Diseases, Hanyang University, Seoul, South Korea

P-023 **Endothelins and extracellular matrix protein production in diabetes.** Chakrabarti, Subrata. Pathology, University of Western Ontario, London, ON, Canada

P-024 **Constrictor Responses to ET-1 are Increased in Human Atherosclerotic Coronary Artery and in Aorta from a Novel Mouse Model for Conditional Ablation of Vascular Smooth Muscle Cells.** Maguire, Janet. University of Cambridge, Cambridge, UK

P-025 **Effect of endothelin on Na/H exchanger activity of human monocytes and atherosclerosis-related functions.** Koliakos, George. Biological Chemistry Medical School, Aristotle University, Thessaloniki, Greece

- P-026 **Endothelin-A receptor blockade does not impair the cardiovascular and hormonal adaptation to anesthesia with xenon or isoflurane in dogs.** Francis, Roland. Anesthesiology and Surgical Intensive Care Medicine, Charite - University Medicine Berlin, Campus Virchow-Klinikum, Berlin, Germany
- P-027 **Endothelin Converting Enzyme is Present and Functional in Rat Thoracic Aorta and Vena Cava.** Thakali, Keshari. Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI
- P-028 **Potent Contractions and Distinct Contractile Dynamics in Response to Endothelin-1 in Murine Arteries.** Widmer, Corinne. Medical Policlinic, Department of Internal Medicine, University Hospital, Zurich, Zurich, Switzerland
- P-029 **Endothelial ETB receptor expression is not changed in small mesenteric blood vessels of DOCA-salt hypertensive rats.** Wang, Hong. Michigan State University, East Lansing, MI
- P-030 **Impaired Endothelial Function, Oxidative Stress and Vascular Remodeling in Resistance Arteries of DOCA-Salt Osteopetrotic Mice: Role of Inflammation.** Amiri, Farhad. Clinical Research Institute of Montreal, Montreal, QC, Canada
- P-031 **Transgenic rat models of the human ETA receptor develop arterial hypertension and show blunted response to adrenergic receptor stimulation.** Saxena, Amit. Clinical Pharmacology and Toxicology, Charite, Berlin, Germany
- P-032 **Pharmacological characterization, cloning and sequencing of the endothelin ETA receptor in the aorta of the poisoning snake *Bothrops jararaca*.** Tostes, Rita. Pharmacology, University of Sao Paulo, Sao Paulo, Brazil
- P-033 **ET-1-induced MAP kinases activation involves c-Src independent mechanisms in DOCA-salt hypertension: Role of oxidative stress.** Yogi, Alvaro. Pharmacology, Institute of Biomedical Sciences, Sao Paulo, Brazil
- P-034 **How does ETB receptor activation in vivo increase O₂- levels in sympathetic ganglia?** Lau, Yanny. Pharmacology&Toxicology, Michigan State University, East Lansing, MI
- P-035 **PPAR γ activator, Rosiglitazone, Prevents Endothelin-1-Induced Inflammation in Vascular Smooth Muscle Cell from Normotensive and Hypertensive rats.** Montezano, Augusto. IRCM, Montreal, QC, Canada and University of Sao Paulo, Sao Paulo, Brazil
- P-036 **Endothelin-1 is an ubiquitous constrictor of human coronary artery *in vitro*: increased responsiveness in disease and comparison to other vasoconstrictors.** Maguire, Janet. Clinical Pharmacology Unit, University of Cambridge, Cambridge, UK
- P-037 **Arterial stiffness, physical activity, and endothelin converting enzyme and endothelin receptor gene polymorphisms in elderly humans.** Iemitsu, Motoyuki. Center for Tsukuba Advanced Research Alliance and Institute of Health and Sport Sciences, University of Tsukuba, Tsukuba, Japan
- P-038 **The effect of acute ischaemia and reperfusion on ET-1 and its receptors in patients with chronic lower limb ischaemia.** Dashwood, Michael. Clinical Biochemistry, Royal Free Hospital, London, UK
- P-039 **ETA blockade prevents polydipsia in the face of volume expansion and hypertension in salt-fed Wistar-Kyoto rats.** Garipey, Cheryl. Pediatrics, University of Michigan, Ann Arbor, MI
- P-040 **Blood pressure responses of endothelin-1 1-31 within the rostral ventrolateral medulla through conversion to endothelin-1 1-21.** Yuan, Wenjun. Physiology, the Second Military Medical University, Shanghai, China
- P-041 **In Vivo PPAR α Activation Attenuates ET-1-Induced Endothelial Dysfunction and High Blood Pressure in Salt-Sensitive Hypertension.** Chen, Alex. Pharmacology and Neurology, Michigan

	<p>State University, East Lansing, MI</p> <p>P-042 Sex differences and the role of superoxide in salt-induced hypertension in ETB receptor deficient rats. Pollock, David. Vascular Biology Center, Medical College of Georgia, Augusta, GA</p> <p>P-043 Plasma endothelin-1 concentration and arterial stiffness in strength- and endurance-trained athletes. Otsuki, Takeshi. Center for Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Tsukuba, Japan</p> <p>P-044 Superoxide dismutase mimetic reduces the pressor response to acute environmental stress in Dahl salt-sensitive rats. D'Angelo, Gerard. Vascular Biology Center, Medical College of Georgia, Augusta, GA</p> <p>P-045 Endothelin-1 Mediates Inward Arterial Remodeling in Response to Decreased Blood Flow. Dajnowiec, Dorota. Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Canada</p> <p>P-046 ECE-1 Isoforms in Human Atherosclerotic Pathologies: Correlation of Expression with Disease Progression. Jackson, Carolyn. School of Biochemistry and Microbiology, University of Leeds, Leeds, UK</p>
<p>2:00 - 3:30 PM</p>	<p>GENERAL PATHOBIOLOGY <i>Moderators: Matthias Barton, University Hospital, Zurich, Switzerland</i> <i>Anthony Davenport, University of Cambridge, UK</i></p> <p>2:00 PM O-12 Effects of hypoxia and inflammatory cytokines on endothelin-1 expression in T98G glioblastoma cells. Takahashi, Kazuhiro. Departments of Analytical Medical Technology and Molecular Biology & Applied Physiology, Tohoku Univ. School of Medicine, Sendai, Japan</p> <p>2:15 PM O-13 Upregulation of endothelin-converting enzyme-1 in differentiation-induced human monocytic cells. Orzechowski, Hans-Dieter. Clinical Pharmacology and Toxicology, Charite, Berlin, Germany</p> <p>2:30 PM O-14 Medial Vascular Calcification (Elastocalcinosis) As A New Pathological Paradigm Involving Endothelin. Moreau, Pierre. Faculty of Pharmacy, University of Montreal, Montreal, QC, Canada</p> <p>2:45 PM O-15 Endothelin-1 induces endothelial dysfunction and interleukin-6 release in humans in vivo, inhibition by pre-loading of vitamin C. Bohm, Felix. Department of Cardiology, Karolinska University Hospital, Solna, Stockholm, Sweden</p> <p>3:00 PM O-16 Endothelin-1 Stimulates Pathologic Bone Formation through Repression of the Negative Wnt Regulator Dickkopf Homolog 1. Clines, Gregory. Internal Medicine, University of Virginia, Charlottesville, VA</p> <p>3:15 PM O-17 ET-1 mediates O₂- production and vasoconstriction through NADPH oxidase and NOS uncoupling. Pollock, Jennifer. Vascular Biology Center, Medical College of Georgia, Augusta, GA</p>
<p>3:30 - 3:55 PM</p>	<p>COFFEE BREAK</p>
<p>4:00 - 5:40 PM</p>	<p>VASCULAR <i>Moderators: Amir Lerman, Mayo Clinic, MN</i> <i>Janet Maguire, University of Cambridge, UK</i></p> <p>4:00 PM Invited speaker: Vascular function: ET in context. Ernesto Schiffrin, University of Montreal, Canada</p>

	<p>4:25 PM O-18 Intact Splanchnic Sympathetic Innervation is Required for Hypertension during Chronic ETB Receptor Activation in Conscious Rats. Li, Wei. Pharmacology and Toxicology, Michigan State University, East Lansing, MI</p> <p>4:40 PM O-19 Combined Effects of Age and Salt-Loading on Endothelial Function, Vascular Remodeling and Oxidative Stress in a Murine Transgenic Model of Endothelial Cell Human Endothelin-1 Overexpression. Amiri, Farhad. Clinical Research Institute of Montreal, Montreal, QC, Canada</p> <p>4:55 PM O-20 Targeted Disruption of the Endothelial Cell Endothelin B Receptor does not affect the BP Response to Salt. Bagnall, Alan. University of Edinburgh, Edinburgh, UK</p> <p>5:10 PM O-21 Chronic high-sodium diet increases aortic wall ET1 protein and mRNA in a blood-pressure-independent fashion in Wistar-Kyoto rats. Gariepy, Cheryl. Pediatrics, University of Michigan, Ann Arbor, MI</p> <p>5:25 PM O-22 CGS 35601, a single molecule triple vasopeptidase inhibitor reduced hypertension in chronically instrumented, conscious and unrestrained Dahl salt-sensitive rats on a high-salt diet. Daull, Philippe. LHRC, Laval University, Sainte-Foy, QC, Canada</p>
5:45 - 6:45 PM	ANCILLARY SESSION I
	Tuesday, September 13, 2005
8:20 - 10:00 AM	<p>CARDIAC <i>Moderators: Takashi Miyauchi, University of Tsukuba, Japan</i></p> <p>8:20 AM Invited speaker: ET and the heart - beyond CHF? Duncan Stewart, University of Toronto, Canada</p> <p>8:45 AM O-23 Dominant-negative PKC-ε inhibits endothelin-1-induced positive inotropy in adult ventricular myocyte. Kang, Misuk. Physiology, University of Wisconsin-Madison, Madison, WI</p> <p>9:00 AM O-24 Blood Pressure-Independent Reversal of Upregulated Renin-Angiotensin System by Endothelin Antagonism in the hypertrophied Heart is Specific in Stroke Prone Spontaneously Hypertensive Rat (SHR-SP), not in SHR. Jesmin, Subrina. Cardiovascular Medicine, Institute of Clinical Medicine, University of Tsukuba, Tsukuba, Japan</p> <p>9:15 AM O-25 Clinical Trials of Endothelin Antagonists in Heart Failure: A question of dose? Webb, David. Centre for Cardiovascular Science, Edinburgh University, Edinburgh, UK</p> <p>9:30 AM O-26 An Endothelin Converting Enzyme-1 Inhibitor Prevents Cardiomyopathy in Mice Over-expressing Big-ET-1. Mueller, Erin. University of Toronto and University Health Network, Toronto, ON, Canada</p> <p>9:45 PM O-27 Genetic Inactivation of Vascular Endothelial Endothelin-1 in Mice is Protective against Angiotensin II-induced Vascular Remodeling and Cardiac Fibrosis, but not Cardiac hypertrophy. Adiarto, Suko. Cardiovascular and Respiratory Medicine, Kobe University Graduate School of Medicine, Kobe, Japan</p>
10:00 - 10:25 AM	COFFEE BREAK

<p>10:30 AM - 12:10 PM</p>	<p>PULMONARY <i>Moderators: Bruno Battistini, Laval University, Canada Roy Goldie, Flinders University, Australia</i></p> <p>10:30 AM Invited speaker: ET in the lung: pulmonary hypertension and new directions. Jocelyn Dupuis, University of Montreal, Canada</p> <p>10:55 AM O-28 Endogenous endothelin signaling is essential for the activated phenotype of lung fibroblasts in scleroderma. Leask, Andrew. CIHR Group in Skeletal Development and Remodeling, University of Western Ontario, London , ON, Canada</p> <p>11:10 AM O-29 Low dose of an inhaled endothelin A receptor antagonist in experimental acute lung injury: effects on ET-1 plasma concentration and pulmonary inflammation. Donaubauer, Bernd. Department of Anesthesiology and Intensive Care Medicine, Charite, University Medical Center, Berlin, Germany</p> <p>11:25 AM O-30 STRIDE-2 Trial: A placebo-controlled study for sitaxsentan in pulmonary arterial hypertension. Langleben, David. Jewish General Hospital, Montreal, QC, Canada</p> <p>11:40 AM O-31 Regulation of Endothelin-1 by Angiotensin-1: Implications for Inflammation. Stewart, Duncan. St. Michael's Hospital and University of Toronto, Toronto, ON, Canada</p> <p>11:55 AM O-32 Role of Endothelin-Converting Enzyme-1 and Bradykinin in Hypoxia-induced Pulmonary Hypertension. Raharjo, Sunu. Division of Cardiovascular and Respiratory Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, Kobe, Japan</p>
<p>12:10 - 2:10 PM</p>	<p>LUNCH AND POSTER SESSION II <i>Buffet lunch served in poster area from noon - 1:00 PM.</i></p> <p>P-047 Beneficial effects of endothelin ETA receptor blockade on right heart remodeling and blood pressure in established long-term heart failure after myocardial infarction. Vetter, Diana. Medical Policlinic, Dept. Medicine, University Hospital, Zurich, Switzerland and Clinical Research, University of Berne, Berne, Switzerland</p> <p>P-048 Modification of ET-1 Induced Pulmonary Vasoconstriction in Congestive Heart Failure. Sauvageau, Stephanie. Medicine, Montreal Heart Institute, Montreal, QC, Canada</p> <p>P-049 Dual ET receptor antagonist attenuates cardiac hypertrophy early post-infarction in the rat. Cernacek, Peter. McGill University, Montreal, QC, Canada</p> <p>P-050 Time course alterations of myocardial endothelin-1 production during the formation of exercise training-induced cardiac hypertrophy. Iemitsu, Motoyuki. Center for Tsukuba Advanced Research Alliance and Institute of Health and Sport Sciences, University of Tsukuba, Tsukuba, Japan</p> <p>P-051 Impaired response to ETB receptor stimulation in heart failure. Functional evidence of endocardial endothelial dysfunction? Bras-Silva, Carmen. Dept. of Physiology, Faculty of Medicine, Porto, Portugal</p> <p>P-052 Obligatory role of the endocardial endothelium in the increase of myocardial distensibility induced by endothelin-1. Bras-Silva, Carmen. Dept. of Physiology, Faculty of Medicine, Porto, Portugal</p> <p>P-053 Intrapericardial angiotensin II stimulates endothelin-1 and atrial natriuretic peptide formation of the in situ dog heart. Toma, Ildiko. Department of Cardiovascular Surgery, Semmelweis University, Budapest, Hungary</p> <p>P-054 A Long-Acting Calcium Channel Blocker Ameliorates Diabetic Cardiac Remodeling Accompanied by Normalization of the Upregulated Endothelin System in Diabetic Rats. Jesmin,</p>

- Subrina. Cardiovascular Medicine, Institute of Clinical Medicine, University of Tsukuba, Tsukuba, Japan
- P-055 **Endothelin-1 stimulates the expressions of VEGF, its receptors and eNOS in neonatal cardiomyocytes without enhancing the HIF-1 α expression.** Shimojo, Nobutake. Division of Cardiovascular Medicine, University of Tsukuba, Tsukuba, Japan
- P-056 **Humoral and Hemodynamic Responses after Left Ventricular Assist Device Implantation and Heart Transplantation.** Wagner, Frank. Charite Research Organization, Charite, Berlin, Germany
- P-057 **Eicosapentaenoic acid, a major component of fish oil, prevents the progression of endothelin-1-induced cardiomyocytic remodeling in vitro.** Shimojo, Nobutake. Division of Cardiovascular Medicine, University of Tsukuba, Tsukuba, Japan
- P-058 **Regression of endothelin-1-induced cardiomyocytic hypertrophy by eicosapentaenoic acid, a major component of fish oil, is independent of TGF β 1, FGF-2 and ACE in vitro.** Shimojo, Nobutake. Division of Cardiovascular Medicine, University of Tsukuba, Tsukuba, Japan
- P-059 **Effect of Type-1-Diabetes on the Regulation of Insulin and Endothelin-1 Receptor(s) in Rat Hearts.** Bikhazi, Anwar. Physiology, American University of Beirut, Beirut, Lebanon
- P-060 **Enhanced cardiac fibrosis of endothelin-1 transgenic mice is independent of the inducible nitric oxide synthase.** Richter, Claus-Michael. Nephrology and Center for Cardiovascular Medicine, Charite, Berlin, Germany
- P-061 **Short term effect of rate control in patients with tachyarrhythmias after catheter ablation on serum endothelin levels.** Dezsi, Csaba. Cardiovascular Centre, Semmelweis Egyetem, Budapest, Hungary
- P-062 **ETB receptors located on vascular smooth muscle cells of cardiomyopathic hamsters are importantly involved in the clearance of circulating endothelin.** Honore, Jean-Claude. Pharmacology, Universite de Sherbrooke, Sherbrooke, QC, Canada
- P-063 **Elevated endogenous endothelin triggered with ventricular fibrillation and shock application may have role in occurrence of ventricular arrhythmias.** Szucs, Gabor. Dept. of Cardiovascular Surgery, Semmelweis University, Budapest, Hungary
- P-064 **Urban Pollutants Interact Toxicologically To Regulate Lung Endothelin System Genes And Plasma Endothelin.** Thomson, Errol. Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, ON, Canada and Department of Biochemistry, Microbiology & Immunology, University of Ottawa, Ottawa, ON, Canada.
- P-065 **Etiology-Specific Endothelin-1 Clearance in Human Precapillary Pulmonary Hypertension.** Langleben, David. Center for Pulmonary Vascular Disease, Jewish General Hospital, Montreal, QC, Canada
- P-066 **Transforming growth factor beta(1) induction of endothelin-1 expression in lung normal and scleroderma lung fibroblasts: insights into the molecular basis of pulmonary fibrosis.** Shi-wen, Xu. Rheumatology, University College London, London, UK
- P-067 **Role of the Endothelium and of ETA and ETA Receptors on ET-1 Induced Vasoreactivity of Isolated Rat Pulmonary Resistance Arteries: Importance of Receptors Heterodimerization.** Sauvageau, Stephanie. Medicine, Montreal Heart Institute, Montreal, QC, Canada
- P-068 **Dual Role of the ETB Receptor and Importance of Prostanoids on ET-1 Response in Isolated Rat Lungs.** Sauvageau, Stephanie. Medicine, Montreal Heart Institute, Montreal, QC, Canada
- P-069 **Endothelin-1 influences the efficacy of inhaled nitric oxide in experimental acute lung injury.** Busch, Thilo. Dept. of Anesthesiology, Charite, Campus Virchow-Klinikum, Berlin, Germany
- P-070 **Differential changes of pulmonary ET-1 and eNOS expression in rats with a chronic left**

- ventricular pressure overload.** Dai, Zen-Kong. Dept. of Pediatrics. Kaohsiung Municipal Hsiao-Kang Hospital and Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
- P-071 **The effects of Sildenafil on the lung expression of ET-1, eNOS and cGMP in pulmonary hypertension secondary to heart failure in aorta-banded rats.** Dai, Zen-Kong. Dept. of Pediatrics. Kaohsiung Municipal Hsiao-Kang Hospital and Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
- P-072 **The effects of debanding on the lung expression of ET-1, eNOS and cGMP in pulmonary hypertension secondary to heart failure in aorta-banded rats.** Dai, Zen-Kong. Dept. of Pediatrics. Kaohsiung Municipal Hsiao-Kang Hospital and College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
- P-073 **Sitaxsentan Therapy in Pulmonary Arterial Hypertension Results in Significantly Fewer Liver Function Abnormalities than Bosentan.** Langleben, David. Jewish General Hospital, Montreal, QC, Canada
- P-074 **Endothelin-1 and nitric oxide alter differently in lungs in different time-points in endotoxemia.** Jesmin, Subrina. Cardiovascular Medicine, Institute of Clinical Medicine, University of Tsukuba, Tsukuba, Japan
- P-075 **A Major Role of Endothelial Cells-derived Endothelin-1 in Preventing Hypoxia-induced Pulmonary Hypertension in Mice: A Conditional Knockout Study.** Raharjo, Sunu. Division of Cardiovascular and Respiratory Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, Kobe, Japan
- P-076 **Primary Structure of Cat Preproendothelin-2 and Increased Renal Expression in Naturally Occurring Renal Failure.** Uchide, Tsuyoshi. Toxicology, Kitasato University, Towada, Japan
- P-077 **Possible role of endothelin system members in the bovine corpus luteum after induced luteal regression.** Schams, Dieter. Physiology, Technical University Munich, Freising, Germany
- P-078 **Effect of ET-1 on Aquaporin 2 expression and its relationship with NO system.** Albertoni Borghese, Maria. Cell Biology, Faculty of Pharmacy and Biochemistry, Buenos Aires University, Buenos Aires, Argentina
- P-079 **Lifestyle Modification Reduces Plasma Endothelin-1 Concentration in Obese Men.** Maeda, Seiji. Center for Tsukuba Advanced Research Alliance and Institute of Health and Sport Sciences, University of Tsukuba, Tsukuba, Japan
- P-080 **Paradoxical downregulation of renal ECE-1 and ECE-2 in early autoimmune diabetes: Reversal by chronic ETA-receptor blockade.** Nett, Philipp. Medical Policlinic, Department of Medicine, University of Zurich, Zurich, Switzerland and Clinic for Visceral and Transplant Surgery, University of Berne, Berne, Switzerland
- P-081 **The influence of three endothelin-1 polymorphisms on the progression of IGA nephropathy.** Maixnerova, Dita. Clinic of Nephrology, Prague, Czech Republic
- P-082 **Mechanisms of Endothelin A Receptor Antagonist Protection in Kidneys of Streptozotocin-Induced Diabetic Rats.** Sasser, Jennifer. Vascular Biology Center and Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA
- P-083 **The Effects of Different Doses of Atorvastatin on Plasma Endothelin-1 Levels in Type 2 Diabetic Subjects.** Lam, Hing-Chung. Department of Medical Education and Research, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan and National Yang-Ming University School of Medicine, Taipei, Taiwan
- P-084 **Hyperthyroidism is Associated with Higher Plasma Endothelin-1 Concentrations and Insulin Resistance.** Chu, Chih-Hsun. Department of Internal Medicine, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan and National Yang-Ming University School of Medicine, Taipei, Taiwan

- P-085 **CGS 35601, a single molecule triple vasoepitidase inhibitor, modulates the hemodynamic and metabolic profiles in chronically instrumented, conscious and unrestrained type II Zucker diabetic fatty rats.** Daull, Philippe. LHRC, Laval University, Sainte-Foy, QC, Canada
- P-086 **Bosentan effect on alpha-smooth muscle actin expression and NADPH diaphorase activity in diabetic rat kidney.** Albertoni Borghese, Maria. Cell Biology, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina
- P-087 **Preventive effect of flavangenol on ischemia/reperfusion-induced acute renal failure in rats, possibly through the suppression of NFκB-induced ET-1 production.** Ohkita, Mamoru. Pharmacology, Osaka University of Pharmaceutical Sciences, Takatsuki, Japan
- P-088 **ETA and ETB Receptors Differentially Modulate Afferent and Efferent Arteriolar Responses to Endothelin.** Inscho, Edward. Department of Physiology and Vascular Biology Center, Medical College of Georgia, Augusta, GA
- P-089 **Endothelin-1 stimulates NO and cyclic GMP production in inner medullary collecting duct via NOS1, but NO does not inhibit vasopressin-stimulated cyclic AMP accumulation.** Kohan, Donald. Division of Nephrology, Univ. of Utah, Salt Lake City, UT and VAMC, Salt Lake City, UT
- P-090 **Effect of endothelin-A receptor blockade on nutritive skin capillary circulation in patients with type 2 diabetes and microalbuminuria.** Settergren, Magnus. Dept of Cardiology, Karolinska University Hospital, Karolinska Institute, Stockholm, Sweden
- P-091 **Differential Regulation Of Micro Vs Macrovascular Dysfunction By Endothelin-1 In Type-2 Diabetes.** Sachidanandam, Kamakshi. Clinical and Administrative Pharmacy, University of Georgia, Augusta, GA
- P-092 **Effect of feeding behavior on endothelin-2 expression in mouse intestines.** Saida, Kaname. National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan
- P-093 **Effect of FK409, a nitric oxide donor, on ischemia/reperfusion-induced renal injury and endothelin-1 production in rats.** Takaoka, Masanori. Pharmacology, Osaka University of Pharmaceutical Sciences, Takatsuki, Japan
- P-094 **Alterations of NO, eNOS and endothelin-1 in whole kidney of streptozotocin-induced early diabetes and effects of endothelin antagonism.** Zaedi, Sohel. Division of Cardiovascular Medicine, University of Tsukuba, Tsukuba, Japan
- P-095 **Changes of NO and ET-1 in plasma and cardiac tissues in streptozotocin-induced early diabetic rats: effects of selective and dual ET receptor antagonists.** Zaedi, Sumon. Division of Cardiovascular Medicine, University of Tsukuba, Tsukuba, Japan
- P-096 **Clinical implication of endothelin antagonism in diabetic erectile dysfunction: Changes in VEGF and NO in type I diabetic penis and beneficial or detrimental effects of endothelin antagonism.** Jesmin, Subrina. Cardiovascular Medicine, Institute of Clinical Medicine, University of Tsukuba, Tsukuba, Japan
- P-097 **Endothelin Expression is Upregulated by Exogenous Platelet-Activating Factor in the Kidney of the Pregnant Rat.** Qu, Xiaowu. Obstetrics & Gynecology, Evanston Northwestern Healthcare, Evanston, IL and Obstetrics & Gynecology, Northwestern University Feinberg School of Medicine, Chicago, IL
- P-098 **Endothelins signal through multiple pathways via ETA and ETB receptors in rat adrenal medulla.** Garrido, Maria del Rosario. School of Pharmacy, Universidad Central de Venezuela, Caracas, Venezuela
- P-099 **The combined inhibition of COX-2 and both endothelin receptors leads to an improvement of survival in murine lupus nephritis.** Richter, Claus-Michael. Nephrology, Charite Campus Benjamin

	<p>Franklin, Berlin, Germany and Center for Cardiovascular Medicine, Charite, Berlin, Germany</p> <p>P-100 The Effect of Targeted Disruption of Endothelial Cell Endothelin B Receptors on Gene Expression of the Renal Endothelin System. Armour, D. University of Edinburgh , Edinburgh, UK</p>
<p>2:10 - 3:50 PM</p>	<p>RENAL AND ENDOCRINE <i>Moderators: Berthold Hocher, Charité University, Germany David Pollock, Medical College of Georgia, GA</i></p> <p>2:10 PM Invited speaker: ET as a critical mediator of renal function and failure. Ariela Benigni, Mario Negri Institute for Pharmacological Research, Italy</p> <p>2:35 PM O-33 Collecting duct-specific knockout of the endothelin A receptor alters renal vasopressin responsiveness, but not sodium excretion or blood pressure. Ge, Yuqiang. Department of Internal Medicine, University of Utah School of Medicine, Salt Lake City, UT</p> <p>2:50 PM O-34 Acute intravenous and renal medullary interstitial infusions of hypertonic saline stimulate renal ET-1 production in rats. Boesen, Erika. Vascular Biology Center, Medical College of Georgia, Augusta, GA</p> <p>3:05 PM O-35 Dual endothelin-A/B receptor antagonist is better than the selective ET-A receptor antagonist in ameliorating the decreased VEGF signaling and inadequate coronary collateral development in early diabetic hearts. Jesmin, Subrina. Cardiovascular Medicine, Institute of Clinical Medicine, University of Tsukuba, Tsukuba, Japan</p> <p>3:20 PM O-36 Genetic inactivation of vascular endothelial cell endothelin-1 is protective against high-fat diet induced obesity, hypertension and insulin resistance. Iwasa, Naoko. Division of Cardiovascular and Respiratory Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, Kobe, Japan</p> <p>3:35 PM O-37 The Renal Endothelin System in Diabetic Endothelin-Transgenic Rats. Liefeldt, Lutz. Nephrology and Clinical Pharmacology and Toxicology, Charite, Berlin, Germany</p>
<p>3:50 - 4:15 PM</p>	<p>COFFEE BREAK</p>
<p>4:15 - 5:55 PM</p>	<p>CNS AND EYE <i>Moderators: Leopold Schmetterer, Institute of Medical Physics, Austria Mario Zuccarello, University of Cincinnati, OH</i></p> <p>4:15 PM Invited speaker: ET and the eye: emerging concepts. Thomas Yorio, University of North Texas, TX</p> <p>4:40 PM O-38 PKC and MAPK Inhibition Blocks Upregulation of ETB Receptors in Cerebral Arteries after Subarachnoid Hemorrhage. Beg, Saema. Clinical Sciences, Division of Vascular Research, Medicine, Lund, Sweden and Clinical Experimental Research, Glostrup University Hospital, Glostrup, Denmark</p> <p>4:55 PM O-39 Endothelin and light-induced retinal degeneration. Suburo, Angela. Fac. Ciencias Biomedicas, Universidad Austral, Derqui-Pilar, Argentina</p> <p>5:10 PM O-40 Endothelin-A/-B dual antagonism reverses the angiogenic growth factor alteration in the frontal cortex of SHR-SP without changing the regional cerebral blood flow. Zaedi, Sumon. Division of Cardiovascular Medicine, University of Tsukuba, Tsukuba, Japan</p> <p>5:25 PM O-41 Role of endothelin-1 in ocular blood flow regulation in humans. Schmetterer,</p>

	<p>Leopold. Clinical Pharmacology and Biomedical Engineering and Physics, Medical University of Vienna, Vienna, Austria</p> <p>5:40 PM O-42 Activation of PPARα attenuates ET-1 production from cerebrovascular endothelial cell. Yakubu, Momoh. Ctr Cardiovasc Dis, Vasc Biol Unit, Texas Southern University College of Pharmacy and Health Sci, Houston, TX</p>
6:00 - 7:00 PM	<p>ANCILLARY SESSION II Latest advances in Tracleer research</p> <p>Martine Clozel, MD, Actelion Pharmaceuticals Ltd 15 minutes Frédéric Bodin, MD, Actelion Pharmaceuticals Ltd 15 minutes Q&A 15 minutes</p>
7:30 PM - 10:00 PM	OPTIONAL DINNER FOR ALL ATTENDEES AND FAMILIES
Wednesday, September 14, 2005	
8:20 - 10:00 AM	<p>INFLAMMATION AND NOCICEPTION Moderators: <i>Gudarz Davar, Amgen, USA</i> <i>Janos Filep, University of Montreal, Canada</i></p> <p>8:20 AM Invited speaker: Current paradigm of ET and pain. Giles Rae, Universidade Federal de Santa Catarina, Brazil</p> <p>8:45 AM O-43 Roles of local ETA and ETB receptor-operated mechanisms in carrageenan-induced articular incapacitation, edema and inflammation in rat knee joint. Daher, Joselia Borba. Pharmaceutical Sciences, Universidade Estadual de Ponta Grossa, Ponta Grossa, Brazil</p> <p>9:00 AM O-44 Upregulation of Endothelin-Converting-Enzyme-1 in host liver during chronic allograft rejection. Lattmann, Thomas. Department of Medicine, University Hospital Zuerich, Zuerich, Switzerland</p> <p>9:15 AM O-45 Involvement of endothelin in morphine tolerance in neuroblastoma (SH-SY5Y) cells. Gulati, Anil. Biopharmaceutical Sciences, University of Illinois at Chicago, Chicago, IL</p> <p>9:30 AM O-46 Endothelin-1 potentiates TRPV-1 currents in primary sensory neurons via ETA receptor-mediated PKC activation. Plant, Tim. Institut fuer Pharmakologie, Charite, Campus Benjamin Franklin, Berlin, Germany and Institut fuer Pharmakologie und Toxikologie, Philipps-Universitaet Marburg, Marburg, Germany</p> <p>9:45 AM O-47 Attenuation of Angiotensin II-induced Body Weight Loss in Endothelin-1 Deficient Mice. Adiarto, Suko. Cardiovascular and Respiratory Medicine, Kobe University Graduate School of Medicine, Kobe, Japan</p>
10:00 - 10:25 AM	COFFEE BREAK
10:30 AM - 12:10 PM	<p>CANCER Moderators: <i>Ana Bagnato, Regina Elena Cancer Institute, Italy</i> <i>Theresa Guise, University of Virginia, VA</i></p>

	<p>10:30 AM Invited speaker: ET as an important mediator of cancer growth and metastasis. Joel Nelson, University of Pittsburgh, PA</p> <p>10:55 AM O-48 Strategies to target the endothelin system in human cancer. Juillerat-Jeanneret, Lucienne. University Institute of Pathology, Lausanne, Switzerland</p> <p>11:10 AM O-49 IRL 1620, a tumor selective vasodilator, enhances the uptake and efficacy of anti-neoplastic agents in breast tumor rats. Gulati, Anil. Biopharmaceutical Sciences, University of Illinois at Chicago, Chicago, IL</p> <p>11:25 AM O-50 The endothelin axis is a target of the metastasis suppressor gene RhoGD12. Theodorescu, Dan. Department of Urology, University of Virginia, Charlottesville, VA</p> <p>11:40 AM O-51 Endothelin-1 promotes epithelial to mesenchymal transition in human ovarian cancer cells. Spinella, Francesca. Molecular Pathology, Regina Elena Cancer Institute, Rome, Italy</p> <p>11:55 AM O-52 Combined Endothelin A Receptor Antagonist and Bisphosphonate Treatment More Effectively Reduces Prostate Cancer Growth in Bone than either Alone. Mohammad, Khalid. Internal Medicine/Endocrinology, University of Virginia, Charlottesville, VA</p>
<p>12:10 - 2:10 PM</p>	<p>LUNCH AND POSTER SESSION III <i>Buffet lunch served in poster area from noon - 1:00 PM.</i></p> <p>P-101 Endothelin-1 mediated production of EDB+ fibronectin in diabetic retinopathy. Chakrabarti, Subrata. Pathology, University of Western Ontario, London, ON, Canada</p> <p>P-102 Effects of endothelin-1 on human trabecular meshwork cell contraction. Mauro, Cellini. Service of Ophthalmology, Bologna, Italy</p> <p>P-103 Immunoreactivity of Endothelin B Receptor in Human Glaucoma Optic Nerve. Wang, Lin. Devers Eye Institute, Portland, OR</p> <p>P-104 Endothelin-1 Via Endothelin B Receptor Activation Contributes to Apoptosis of Rat Retinal Ganglion Cells. Krishnamoorthy, Raghu. Pharmacology and Neuroscience, UNT Health Science Center, Fort Worth, TX</p> <p>P-105 ETA receptors are downregulated in the brain of ETB globally deficient mice but ETA density is unaltered in the endothelial cell-specific ETB knock-out mouse. Kuc, Rhoda. Clinical Pharmacology Unit, University of Cambridge, Cambridge, UK</p> <p>P-106 Regulation of ECE-1 expression in the brain structures of rat and human neuroblastoma cells in culture. Nalivaeva, Natalia. School of Biochemistry and Microbiology, University of Leeds, Leeds, UK and Institute of Evolutionary Physiology and Biochemistry, St.Petersburg, Russian Federation</p> <p>P-107 Endothelin-1-induced spreading depression in the rat is associated with a cortical microarea of neuronal damage. Dreier, Jens. Neurology, Charite Campus Mitte, Humboldt University, Berlin, Germany</p> <p>P-108 Elucidating the role of endothelin-2 in inherited photoreceptor degenerations. Bramall, Alexa. Hospital for Sick Children, Toronto, ON, Canada</p> <p>P-109 The Pressor and Vasopressin Secretory Responses Induced by Endothelin 1 Acting at the Subfornical Organ are Mediated by an AMPA Receptor within the Paraventricular Nucleus. Rossi, Noreen. Internal Medicine, Wayne State University and John D. Dingell VAMC, Detroit, MI</p> <p>P-110 Interactions between endothelin and its receptors in the control of the brain microcirculation following traumatic brain injury. Petrov, Theodor. Anatomy & Cell Biology, Wayne State University, Detroit, MI</p>

- P-111 **Subconjunctival injection of endothelin-1 to produce the model of retinal ischemia-reperfusion injury in rats.** Masuzawa, Koichi. Pharmacology, Basic Medical Sciences, University of Tsukuba, Tsukuba city, Japan
- P-112 **Reversal of upregulated VEGF and ICAM-1 levels by administration of endothelin type A receptor antagonist in type I diabetic retina.** Masuzawa, Koichi. Pharmacology, Basic Medical Sciences, University of Tsukuba, Tsukuba city, Japan
- P-113 **Prevention and reversal of vasospasm and ultrastructural changes in the basilar artery by continuous infusion CGS35066, a selective endothelin-converting enzyme-1 inhibitor, following experimental subarachnoid hemorrhage.** Kwan, Aij-Lie. Neurosurgery, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan and Neurosurgery, University of Virginia, Charlottesville, VA
- P-114 **CGS26303, an endothelin-converting enzyme inhibitor, attenuates experimental subarachnoid hemorrhage-induced increases in circulating intercellular adhesion molecule and cerebral vasospasm.** Kwan, Aij-Lie. Neurosurgery, Kaohsiung Medical University, Kaohsiung, Taiwan and Neurosurgery, University of Virginia, Charlottesville, VA
- P-115 **Alterations of endothelin-1 and angiotensin II in the brain of endotoxaemia in the time dependent manner without change in nitric oxide.** Shimojo, Nobutake. Division of Cardiovascular Medicine, University of Tsukuba, Tsukuba, Japan
- P-116 **Alteration of the Cerebrovascular Endothelin B Receptor Function after Experimental Subarachnoid Hemorrhage in the Rat.** Konczalla, Juergen. Dept. of Neurosurgery, Johann Wolfgang Goethe University, Frankfurt am Main, Germany
- P-117 **17 β -Estradiol inhibits endothelin-1 production and attenuates cerebral vasospasm following experimental subarachnoid hemorrhage.** Lin, Chih-Lung. Neurosurgery, Kaohsiung Medical University, Kaohsiung, Taiwan
- P-118 **Correlation of morphologic measurements with motorsensory scores for evaluating cerebral vasospasm induced by subarachnoid hemorrhage in rabbits treated with CGS35066, a selective endothelin-converting enzyme inhibitor.** Kuo, Jinn-Rung. Neurosurgery, Chi Mei Medical Center, Tainan, Taiwan
- P-119 **A hypoxic mimetic agent induces neurite outgrowth in rat pheochromocytoma PC-12 cells through regulation of endothelin-2/vasoactive intestinal contractor.** Kotake-Nara, Eiichi. National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan and New Energy and Industrial Technology Development Organization (NEDO), Kawasaki, Japan
- P-120 **Neuroprotective effect of CGS26303, an endothelin-converting enzyme inhibitor, on the ischemic-reperfusion spinal cord injury in rats.** Chou, An-Kuo. Anesthesiology, Chang Gung Memorial Hospital, Kaohsiung, Taiwan
- P-121 **Trypanosoma cruzi infection induces proliferation of vascular smooth muscle cells.** Huang, Huan. Pathology, Albert Einstein College of Medicine, Bronx, NY
- P-122 **Endothelin B receptor antagonist reduces mechanical allodynia in rats with trigeminal neuropathic pain.** Rae, Giles. Pharmacology, Universidade Federal Santa Catarina, Florianopolis, Brazil
- P-123 **Receptors mediating the pruritic action of endothelin-1 in mice.** Rae, Giles. Pharmacology, Universidade Federal Santa Catarina, Florianopolis, Brazil
- P-124 **Intracellular signaling mechanisms underlying endothelin-1-induced mechanical hyperalgesia in rats.** Rae, Giles. Pharmacology, Universidade Federal Santa Catarina, Florianopolis, Brazil
- P-125 **Endothelin in a murine model of cerebral malaria.** Machado, Fabiana. Medical and Molecular Parasitology, New York University School of Medicine, New York, NY and Immunology, Duke University School of Medicine, Durham, NC

- P-126 **Involvement of central endothelin receptors in neonatal morphine withdrawal.** Gulati, Anil. Biopharmaceutical Sciences, University of Illinois at Chicago, Chicago, IL
- P-127 **Endothelin-2 is concentrated near the basement membrane in mouse intestine and upregulated in experimental colitis.** Saida, Kaname. National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan
- P-128 **Endothelin-1 and nitric oxide were altered accompanied with alteration of inflammatory markers in hepatic tissue in sepsis in a time-dependent manner.** Zaedi, Sohel. Division of Cardiovascular Medicine, University of Tsukuba, Tsukuba, Japan
- P-129 **Tactile Allodynia Produced by Low Concentrations of ET-1 Involves TRPV1 Receptors and Differs from Pain Induction by Higher ET-1 Concentrations.** Khodorova, Alla. Anesthesiology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA
- P-130 **ET-1 modulation in Human Microvascular Endothelial cells after Human herpes virus 8 infection.** Speciale, Livianna. Laboratory of Molecular Medicine & Biotechnologies, Don C. Gnocchi Foundation, IRCCS, Milan, Italy
- P-131 **Endothelin-Converting Enzyme-1, its isoforms and Prostate Cancer.** Dawson, Louise. Biochemistry and Microbiology, University of Leeds, Leeds, UK
- P-132 **The green tea polyphenol Epigallocatechin-3-Gallate inhibits the endothelin axis in ovarian carcinoma.** Spinella, Francesca. Molecular Pathology Lab., Regina Elena Cancer Institute, Rome, Italy
- P-133 **ZD4054, a specific endothelin A receptor antagonist, inhibits tumor growth and enhances cytotoxicity of paclitaxel in ovarian carcinoma in vitro and in vivo.** Bagnato, Anna. Molecular Pathology, Regina Elena Cancer Institute, Rome, Italy
- P-134 **Endothelin-1 modulates cell survival of squamous cell carcinoma.** Awano, Shuji. Community Oral Health Science, Kyushu Dental College, Kitakyushu, Japan
- P-135 **ZD4054 reduces ET-1-induced forearm vasoconstriction in healthy men.** Webb, David. Clinical Research Centre, University of Edinburgh, Edinburgh, UK
- P-136 **ETB receptor agonist, IRL 1620, does not alter paclitaxel plasma pharmacokinetics and toxicology in tumor bearing rats.** Gulati, Anil. Biopharmaceutical Sciences, University of Illinois at Chicago, Chicago, IL
- P-137 **Endothelin-1 Stimulates Osteoblast Production of Interleukin-6, Connective Tissue Growth Factor (CTGF) and Cyr61.** Clines, Gregory. Internal Medicine, University of Virginia, Charlottesville, VA
- LB-002 **Modification of the endothelin system in Alzheimer's disease.** Charles Ramassamy. INRS - Institut Armand-Frappier, Université du Québec, Pointe-Claire (Montreal), QC, Canada
- LB-003 **The three endothelin receptors in the killifish, *Fundulus heteroclitus*: Physiological and phylogenetic relationships.** Kelly A. Hyndman. Zoology, University of Florida, Gainesville, FL, ²Mount Desert Island Biological Laboratory, Salisbury Cove, ME
- LB-004 **Expression And Localization of The Endothelin System in Cisplatin-Induced Acute Renal Failure in Mice.** Dowahn Ahn. Physiology, Kosin University College of Medicine, Busan, South Korea
- LB-005 **Proteomics of ET-1 receptor signaling complexes in rat cardiac myocytes.** Ka Young Chung. Physiology, University of Wisconsin-Madison, Madison, WI
- LB-006 **Endothelin-1 mobilizes profilin-1 bound PIP2 in cardiac muscle.** Nathan J. Evans. Physiology, Univ. of Wisconsin-Madison, Madison, WI

<p>2:10 - 3:35 PM</p>	<p>EMERGING TARGETS <i>Moderators: Katsutoshi Goto, University of Tsukuba, Japan David Webb, University of Edinburgh, UK</i></p> <p>2:10 PM Invited speaker: ET: where should we be focusing? Masashi Yanagisawa, University of Texas Southwestern, TX</p> <p>2:35 PM O-53 Knockout of endothelin-1 in vascular endothelial cell protects against insulin resistance induced by high-salt diet in mice. Iwasa, Naoko. Division of Cardiovascular and Respiratory Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, Kobe, Japan</p> <p>2:50 PM O-54 Endothelin-like actions of an N-terminal fragment of parathyroid-hormone related protein. Chirgwin, John. Medicine/Endocrinology, University of Virginia, Charlottesville, VA</p> <p>3:05 PM O-55 Shigatoxin (Stx)-2 upregulates endothelin-1 gene in glomerular podocytes and promotes cytoskeleton dysfunction: implications for glomerular hemodynamics of HUS. Buelli, Simona. Molecular Medicine, Mario Negri Institute of Pharmacological Research, Bergamo, Italy</p> <p>3:20 PM O-56 Endothelin antagonism prevents diabetic retinopathy in NOD mice. Potential role of the angiogenic factor adrenomedullin. Shaw, Sidney. University of Bern, Department of Clinical Research, Bern, Switzerland</p>
<p>3:35 - 4:00 PM</p>	<p>COFFEE BREAK</p>
<p>4:00 - 5:15 PM</p>	<p>LATE-BREAKING TOPICS <i>Moderators: Martine Clozel, Actelion, Switzerland</i></p> <p>4:00 PM LB-001 Endogenous endothelin-1 is required for cardiomyocyte survival in vivo. Ralph V. Shoheit. Internal Medicine, Univ. of Texas Southwestern Medical Center, Dallas, TX</p> <p>4:15 PM LB-007 Hypoxia induces pulmonary arterial hypertension in endothelial cell-specific ETB receptor knockout mice. N.F. Kelland. Centre for Cardiovascular Science, Edinburgh University, Edinburgh, UK</p> <p>4:30 PM LB-008 Endothelin-1 stimulates colon cancer adjacent submucosal fibroblasts. Jonathan Knowles. Academic Surgery, UCL, London, UK and Centre for Rheumatology, Royal Free and University College Medical School, London, UK</p> <p>4:45 PM LB-009 Endogenous endothelin controls activation of genes implicated in vascular bone formation in early autoimmune type 1 diabetes mellitus. Philipp C. Nett. Medical Policlinic, University Hospital Zurich, Zurich, Switzerland and Department of Visceral and Transplant Surgery, University Hospital Bern, Bern, Switzerland</p> <p>Additional late-breaking abstracts may be presented</p>
<p>5:15 - 5:25 PM</p>	<p>CLOSING REMARKS <i>Donald Kohan, University of Utah, UT</i></p>