

**Annual Report**  
**Division of Internal Medicine**  
**April 1, 2007-May 31 2008**

**I      Highlights**

The past year has again presented challenges to the JGH Division of Internal Medicine. Our Internists continue to provide most of the hospital's functions caring for more than 100 inpatients on a daily basis outside the Clinical Teaching Units. The division is responsible for more than 10 daily medical consults in the Emergency Room and provides the gate keeping role for all admissions to medical beds. Each morning the division addresses the needs of nearly 20 patients in the Emergency Room that require medical reassessments and likely admission to the hospital. In addition to serving the vital functions of the hospital, the division has a tremendous responsibility to teaching students and residents both in the inpatient and outpatient setting.

In spite of the many obligations, our division is one of the most accomplished in research with four of our members devoting more than 50% of their time in highly productive research activities.

Over the years we have developed expertise in many domains and organized specialty clinics to deliver this expertise to the community. Examples of these domains include thrombo-embolic disease, which led to the establishment of multi-specialty Thrombosis Clinic under the leadership of Dr. Susan Kahn. This year, the activity was extended to an inpatient Thrombosis consultation service. Dr Susan Kahn and Vicky Tagalakis run the Thrombosis Clinic at the JGH. A new fellowship position has been funded. The Hypertension Clinic developed by Dr. Trudeau has been expanded in the new Nun's Pavilion to a more comprehensive Cardiovascular Prevention Unit under the direction of Dr. Schiffrin. Dr. Hoffer continues to offer expertise in Nutrition to both outpatients and inpatients. Dr. Chang provides expertise in palliative care as the Director of the Palliative Care Unit and Dr. Janice Cohen provides primary care to patients with neurological diseases, particularly stroke patients.

The division members also carry major roles in administrative functions. Dr Schiffrin, world-renowned internist, acts as our Chief of Medicine. Dr. Raffoul is the Director of 7west CTU, the Medical Short Stay Unit and the Medical Gatekeeper. Dr. Elizov is the site Program Director for core Internal medicine residents. Dr. Tagalakis is the McGill Program Director for Internal Medicine fellowship training program. Dr. Vicky Tagalakis and Dr Kaberi Dasgupta have designed a clinical scholars program with an exciting curriculum for the 6 general internal medicine fellows who will begin in July 2008. Dr. Kahn is Director of the Thrombosis Clinic and one of the Associate Directors of the Lady Davis Institute. Dr. Becker is the Chief of the Division as well as Medical Director at Mount Sinai and Chief of Medicine at the Jewish Rehabilitation Hospital.

It is with a great deal of pride that I present the many functions and accomplishments of our division members.

Many of our Internists have been recipients of this award in past years. Dr Vicky Tagalakis was

promoted to Associate Professor of Medicine, GFT-H. Our 4 outstanding researchers, Drs Schiffrin, Kahn, Tagalakis and Hoffer have all been recipients of numerous peer-reviewed grants, publications and awards for their strong scientific contributions.

In summary, the Division of Internal medicine, provides exemplary service in the 4 domains which include research, teaching, clinical service and administration.

## **II Evaluation of Past Academic Year**

### **1) Teaching Activities**

IIM (Link), 7 weeks/year: Dr. V. Tagalakis

CTU Ward Attending, 1 month/year: Drs. R. Becker, R. Bunea, M. Elizov, J. Hoffer, S. Kahn, J. Raffoul, , E. Schiffrin, L. Trudeau, V. Tagalakis

AIMC for residents and students: Preceptor for residents in Internal Medicine Clinic (4 clinics/week, 4-5 residents/students per clinic): Drs. R. Becker, J. Raffoul, L. Trudeau, M. Elizov, Dr. R. Bunea, Dr. J. Hoffer, Dr. V. Tagalakis

Consult Service: Resident supervision: Drs. R. Becker, R. Bunea, M. Elizov, J. Hoffer, S. Kahn, J. Raffoul, V. Tagalakis, L. Trudeau

ER/MSTU: Resident supervision: Drs. R. Bunea, J. Hoffer, S. Kahn, J. Raffoul, V. Tagalakis L. Trudeau, M. Elizov,

Core Lectures: Core Lecturer in Internal Medicine, Internal Medicine Residency Program (10 hours/year): Drs. R. Becker, M. Elizov J. Hoffer, S. Kahn, J. Raffoul, L. Trudeau, V. Tagalakis

Internal Medicine Division Rounds: Drs. R. Becker, R. Bunea, H. Chang, J. Cohen, J. Hoffer, S. Kahn, J. Raffoul, E. Schiffrin, V. Tagalakis, L. Trudeau.

Drs Tagalakis and Dasgupta have designed an excellent curriculum that will promote academic internal medicine called the Clinical Scholars Program. The efforts of several members of General Internal Medicine have led to the recruitment of 6 GIM fellows who will start in July 2008.

### **2) Research Activities**

**Hoffer, L. John**

**Outside McGill**

Montreal, QC: Cancer Treatment by Intravenous Vitamin C. 5<sup>th</sup> Meeting of the Canadian Oxidative Stress Consortium, May 3, 2007

## **National**

Toronto, ON: Perspectives on the Clinical Investigation of Intravenous Vitamin C as Cancer Therapy. Nutritional Medicine Today, 36<sup>th</sup> Annual International Conference, April 2007

Toronto, ON: Vitamin and mineral supplements: benefits & risks. Pre-conference workshop "Nutrition: Essentials for Primary Care," Canadian Society for Clinical Nutrition Annual Scientific Meeting, May 29, 2008

## **International**

Prague, Czech Republic: Malnutrition is under-recognized and under-treated: where should we focus? 29<sup>th</sup> European Society for Parenteral and Enteral Nutrition Congress, Satellite Symposium on Malnutrition in Hospitals and the Community, September 9, 2007

Bethesda, Maryland: Intravenous vitamin C: a model for CAM-informed clinical investigation. US National Cancer Institute Office of Cancer Complementary and Alternative Medicine Practitioner-Researcher Partnerships Conference: Fostering Collaborations, Advancing Science, October 22, 2007

Bethesda, Maryland: Ascorbic acid in cancer treatment. US National Institutes of Health (NIDDK) Research Workshop, October 24, 2007

Chicago, IL: The Malnutrition Syndromes, Perspective from Canada. American Society for Parenteral and Enteral Nutrition 2008, February 11, 2008

## **Kahn, Susan R**

### **McGill**

Dr Kahn is a leader in research in the field of thromboembolic diseases. She is principal investigator on major studies focused on the epidemiology of venous thrombotic disorders, and on a CIHR multicentre clinical trial of interventions to prevent the post-thrombotic syndrome after venous thrombosis. This year she became Chair of the CIHR Clinical Trials Committee.

Thromboprophylaxis in the general surgery patient: just do it! Surgical Grand Rounds Jewish General Hospital. June 19, 2008.

Update on optimal duration of anticoagulation for venous thromboembolism in 2008. MUHC, Division of Hematology, Montreal General Hospital, June 11, 2008.

The art and science of getting a randomized clinical trial funded. Psychiatry Research Rounds, Institute of Community and Family Psychiatry, Jewish General Hospital, April 9, 2008.

Tips for effective navigation of the rocky road from great idea to funded RCT: grantsmanship and beyond. McGill Department of Epidemiology, Biostatistics and Occupational Health, Seminar Series, February 18, 2008.

Venous thrombosis: when do you look further? Internal Medicine Rounds, Jewish General Hospital, February 7, 2008.

Thrombosis, Cancer and Surgery. Nursing Grand Rounds, Jewish General Hospital. December 13, 2007.

Practical Anticoagulation. Hematology Rounds, Jewish General Hospital. November 28, 2007.

Practical Anticoagulation. Plenary Session and DVTs – When Do You Look Deeper? Workshop. 58th Annual Refresher Course for Family Physicians. Montreal. November 27, 2007.

Thrombosis, Cancer and Surgery. Grand Surgical Rounds, St. Mary's Hospital. November 17, 2007.

Peri-operative Thromboprophylaxis. McGill Department of Medicine, Academic Half Day for Residents. November 1, 2007.

Thrombosis, Surgery and Cancer. Multidisciplinary Surgical Grand Rounds, McGill University Health Centre. October 4, 2007.

Practical Approach to Diagnosis and Management of DVT. Emergency Noontime Rounds, Jewish General Hospital. July 23, 2007.

Venous thromboembolism prophylaxis in the hospitalized patient. McGill University Internal Medicine Academic Half-Day. April 12, 2007.

## **Outside McGill**

### **National**

Thrombosis, Surgery and Cancer. Canadian Society of Surgical Oncology, Fourteenth Annual Scientific Meeting, Toronto, May 2<sup>nd</sup>, 2008.

Tips for effective navigation of the rocky road from great idea to funded RCT: grantsmanship and beyond. GRISIM (Groupe de Recherche Interuniversitaire en Sciences Infirmières de Montréal), Montréal, QC, April 29, 2008.

Tips for effective navigation of the rocky road from great idea to funded RCT. Clinical Epidemiology Seminars, University of Ottawa Department of Epidemiology and Ottawa Health Research Institute, Ottawa, ON. January 25, 2008.

Topics in Thrombosis. Medical Grand Rounds, Hôpital Anna Laberge, Châteauguay, QC. November 8, 2007.

Best Practices Session: Thrombophilia in pregnancy. Invited Speaker, Annual Meeting of the Society of Obstetricians and Gynecologists of Canada, Ottawa ON. June 25, 2007.

Prevention of venous thrombosis in surgery patients. Invited Speaker, Congrès annuel de l'association québécoise de chirurgie, La Malbaie, QC. June 2, 2007.

Thrombosis in cancer patients. Grand Rounds, Centre Hospitalier de Sherbrooke, Sherbrooke, QC. May 18, 2007.

Post-thrombotic syndrome. Thrombosis and Cancer Symposium, Société des Sciences Vasculaires du Québec, Montréal, QC. May 4, 2007.

### **International**

Post-thrombotic syndrome: Epidemiology, natural history and quality of life. International Society on Thrombosis and Haemostasis Scientific and Standardization Committee Meeting. Vienna, Austria, July 5, 2008.

Measurement of PTS and evidence for validity of classification systems: a move towards harmonization. International Society on Thrombosis and Haemostasis Scientific and Standardization Committee Meeting. Vienna, Austria, July 5, 2008.

Invited participant, clinical research forum (Closed session for invited experts). North American Thrombosis Forum and Thrombosis Summit. Boston, Mass. Sept. 28, 2007. Long-term outcome after deep vein thrombosis. Invited Symposium speaker, XXI<sup>st</sup> Congress of International Society on Thrombosis and Haemostasis. Geneva, Switzerland. July 9, 2007.

Acute treatment of venous thromboembolism. IVC Filter Research Consensus Panel, Society of Interventional Radiology. Washington DC, June 12, 2007.

### **Research Grants:**

CIHR Randomized Clinical Trials Program

Extended prophylaxis comparing low molecular weight heparin to aspirin in total hip arthroplasty (EPCAT Study) Anderson D (PI)/ Kahn SR (co-applicant), de Beer J, Bohm E; Dunbar M, Andreou P, Lavigne M, Naudie D, Kovacs M, Macdonalda S, Belzile E, Zukor D, Wells P, Ramsay T, Rodger M, Kim P, Burkart B, Waddell J, Coyle D,

Vendittoli PA 2007-2012: \$1,018,819

CIHR The effect of sex on the epidemiology of venous thromboembolic disease  
Tagalakis V, Kahn SR (Co-Principal Investigator), Boivin JF, Moride Y, Opatrny L (co-applicants): \$150,000

CIHR Randomized Controlled Trials Program  
Exercise training for the treatment of post-thrombotic syndrome: The EXPO pilot trial  
Kahn SR (Principal Investigator)/Shrier, Wells, Rodger, Kearon, Anderson, Kovacs, Reid, Shapiro: 2007-2009: \$351,040

### **Schiffrin, Ernesto L**

#### **Outside McGill**

##### **National**

Vascular phenotype in hypertension: relation to the natural history of hypertension and therapeutic considerations. Division of Nephrology lecture, University of Ottawa Health Center, May 1, 2007.

Oxidative stress in hypertension. Invited speaker at the Oxistress International Symposium, Montreal, May 5, 2007.

##### **International**

Vascular phenotypes in Hypertension. Invited plenary speaker, InterAmerican Society of Hypertension Meeting, Miami, FL, May 7, 2007.

Hypertension and inflammation. Invited Plenary Session speaker at the National Meeting of the American Society of Hypertension, Chicago, May 19-22, 2007.

Dr Schiffrin received the 2007 Irvine Page - Alva Bradley Lifetime Achievement Award of the High Blood Pressure Research Council of the American Heart Association at the council meeting in Tucson, Arizona, USA, in September 2007.

#### **Research Grants:**

Canada Foundation for Innovation: Canada Research Chair in Vascular and Hypertension Research (2006-2013): \$1,400,000

CIHR 37917 Role of endothelin in hypertension and vascular injury (2005-2010): \$730,000

### **Trudeau, Luc**

## **McGill**

Update in Hypertension. JGH, Family Medicine Teaching Rounds, Herzl Clinic. September 2007

Hypertension in the Elderly. Workshop at the 58<sup>th</sup> Annual Refresher Course for Family Physicians, Montreal, Quebec. November 26, 2007

Introduction to Internal Medicine. JGH, Senior Physician Rounds. March 27, 2008

The Role of Tramadol in the Treatment of Neuropathic Pain. JGH, Endocrinology Rounds. May 15, 2008

The ONTARGET Trial. JGH, General Internal Medicine Division Rounds. May 29, 2008

## **Outside McGill**

### **National**

Les IECA ne sont pas tous les mêmes. Hickson Medical Clinic (Verdun, QC). April 2, 2007

Troubles cardiovasculaires; quoi de neuf? Quebec Association of Vietnamese Pharmacists (Montreal, Quebec). April 22, 2007

Tout sur le MAPA. Saint-Laurent Medical Clinic. April 27, 2007

La prévention cardiovasculaire. Mercier Medical Clinic. May 17, 2007

Heart, Body & Mind: Optimizing Wellness. Ste-Adele, Quebec. June 1, 2007

La blouse, l'artère et la pression. Pointe-Claire, Quebec. June 8, 2007

L'étude OPTIM. Terrebonne, Quebec. June 19, 2007

La blouse et l'hypertension. Clinique Jean-Talon, Montreal, Quebec. June 20, 2007

L'étude OPTIM. Charles-Lemoyne Hospital, Cardiology Rounds, Greenfield Park, Quebec. August 29, 2007

Sleep Apnea – Hypertension; the Situation, the Solution. Montreal, Quebec, October 2, 2007

Mise à jour en médecine cardiovasculaire. Boehringer-Ingelheim Training Session, Brossard, Quebec. December 17, 2007

Masked Hypertension: all you need to know. Lakeshore General Hospital, Medicine Grand Rounds. Pointe-Claire, Quebec. January 14, 2008

L'étude SAALT. Investigator Meeting, Montreal, Quebec. February 2, 2008

Les inhibiteurs de la DPP-4. Clinique Hickson, Verdun. February 4, 2008

Nouvelles frontières en hypertension: vers une meilleure atteinte des valeurs cibles de la tension artérielle et une protection accrue des organes cibles. Gatineau, Québec. February 7, 2008

Comment savoir si je souffre du syndrome de l'apnée du sommeil? Gatineau, Québec. February 29, 2008

McCEMATO (McGill Collaborative Effort on Microalbuminuria and Treatment Outcome); Signification clinique de l'albuminurie. Boucherville, Québec. March 28, 2008

Étude ONTARGET et hypertension masquée. Amos, Québec. April 22, 2008

Mise à jour en cardiologie: Les iECA et les ARA. Un choix basé sur les évidences. Clinique de l'Église, Verdun. April 29, 2008

Les antagonistes des récepteurs AT1 et la protection vasculaire : rétrospective et perspective. Clinique Bélanger, Montreal. April 30, 2008

What's new in cardiovascular protection: making the right choice based on evidence. Kirkland Clinic, Kirkland. May 1, 2008

Étude ONTARGET. Val d'Or, Québec. May 13, 2008

Protection cardiovasculaire: le coeur sous toutes ses coutures! Internal Medicine Rounds, Centre hospitalier Rouyn-Noranda, Québec. May 14, 2008

Hypertension and ABPM : My patient is taking 3 medications and he's still not controlled. Access Med Clinic, Kirkland. May 23, 2008

Agir sur le continuum cardiovasculaire: dernières avancées en pratique clinique. Montréal, Québec. May 30, 2008

**Tagalakis, Vicky**

**McGill**

Thrombosis-related complications in cancer patients. Internal Medicine Division Rounds, Jewish General Hospital, McGill University, Montréal, Canada, 2007.

Thrombophilia testing. Family Medicine Lecture Series, Jewish General Hospital, McGill University, Montréal, Canada, 2007.

Lung cancer and thrombosis. Pulmonary Grand Rounds, Sir Mortimer B. Davis - Jewish General Hospital, McGill University, Montréal, Canada, 2007

### **Outside McGill**

#### **National**

Cancer-associated thrombosis. Oral presentation at: Annual Symposia and Annual General Meeting of the Thrombosis Interest Group of Canada; 2007 October 27-28; Winnipeg, Canada.

Tamim H, Tagalakis V. Measurement methods. Oral presentations at: 23<sup>rd</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management; 2007 August 19-22; Quebec City, Canada.

### **3) Clinical Activities**

#### **Internal Medicine Out-Patient Clinic:**

5 1/2 day clinics per week

Drs. R. Becker, R. Bunea, M. Elizov, J. Raffoul, L. Trudeau, V. Tagalakis, Dr. J. Hoffer

#### **Cardiovascular Prevention Center**

1-2 clinics per week

Dr. E. Schiffrin, Dr. L. Trudeau

#### **Resident's Hypertension Clinic:**

1 clinic per week

Dr. L. Trudeau

#### **Thrombosis Clinic:**

2 day clinic per week

Drs. S. Kahn, V. Tagalakis

#### **MSTU/ER Inpatient Consultations :**

Drs. R. Becker, R. Bunea, M. Elizov, J. Hoffer, S. Kahn, J. Raffoul, V. Tagalakis, L. Trudeau

**Nutritional Support Team Consultation:** Dr. John Hoffer

**2 Main, 4 Main, 4NW Intermediate and Palliative Care:**  
Dr. Harvey Chang, Dr. Janice Cohen & Dr. Ruxandra Bunea

**Internal Medicine Consults for Jewish Rehabilitation Hospital:**  
Dr. Rubin Becker and Dr. Joe Raffoul

**Link with Mount Sinai Hospital Palliative Care:**  
Dr. Rubin Becker

#### **4) Academic Staff**

Dr. Rubin Becker, Director, Division of General Internal Medicine  
Dr. Ruxandra Bunea  
Dr. Harvey Chang  
Dr. Janice Cohen  
Dr. Michelle Elizov  
Dr. John Hoffer  
Dr. Susan Kahn  
Dr. Joseph Raffoul  
Dr. Ernesto L. Schiffrin  
Dr. Luc Trudeau  
Dr. Vicky Tagalakis

#### **5) Consulting Activities:**

Schiffrin, E.L. : 6 hours for BMS on weekend; 6 hours for Novartis on weekend, 6 hours for Boehringer-Ingelheim on weekend; 3 hours for Merck-Frosst

#### **6) Honors & Awards**

Dr Schiffrin received the 2007 Irvine Page - Alva Bradley Lifetime Achievement Award of the High Blood Pressure Research Council of the American Heart Association at the council meeting in Tucson, Arizona, USA, in September 2007. This award is presented each year to an individual who has had a lifetime of outstanding achievements in the field of hypertension and has served as a role model through service, research and teaching. In general, the recipient of this award must have had a career spanning at least 25 years.

Dr. Vicky Tagalakis: SMBD Jewish General Hospital Department of Medicine Research Award.

#### **7) Publications**

**Hoffer, L. John**

--**Hoffer LJ.** Nutrition supplements in adults. IN: Grey J, ed, Therapeutic Choices, 5th

edition, Ottawa, Canadian Pharmacists Association, pp 371-378, 2007

--Gan R, Eintracht S, **Hoffer LJ**. Vitamin C deficiency in a university teaching hospital. Podium presentations at Clinical Young Investigator Award Competition and Water-Soluble Vitamins II FASEB Experimental Biology 2007, Washington DC, April 28 and 30, 2007. FASEB J 21:A104, 2007

--**Hoffer LJ**, Levine M, Chen Q, Assouline S, Melnychuk D, Miller WH. Cancer treatment by intravenous vitamin C. 5<sup>th</sup> Meeting of the Canadian Oxidative Stress Consortium, Montreal, Quebec, May 3, 2007

### **Kahn, Susan R**

--Freihage JH, Joyal D, Arab D, Dieter RS, Loab HS, Steen L, Lewis B, Liu JC, Leya F. Invasive assessment of mitral regurgitation: comparison of hemodynamic parameters. *Catheter Cardiovasc Inter.* 1:69:303-12, 2007

### **Kahn, Susan**

--Anderson DR, **Kahn SR**, Rodger MA, Kovacs MJ, Morris T, Hirsch A, Lang E, Stiel I, Kovacs G, Dreyer J, Dennie C, Cartier Y, Barnes D, Burton E, Pleasance S, Skedgel C, O'Rourke K, Wells PS. Computed Tomographic Pulmonary Angiography vs Ventilation-Perfusion Lung Scanning in Patients with Suspected Pulmonary Embolism: A Randomized Controlled Trial. *JAMA*; 298(23):2743-2753, 2007

--**Kahn SR**, Shbaklo H, Shapiro S, Wells PS, Kovacs MJ, Rodger MA, Anderson DR, Ginsberg JS, Johri M, Tagalakis V for the SOX Trial Investigators. Effectiveness of compression stockings to prevent the post-thrombotic syndrome (The SOX Trial and Bio-SOX biomarker substudy): A randomized controlled trial. *BMC Cardiovascular Disorders*, 7:21, 2007.

--Kovacs MJ, **Kahn SR**, Rodger MA, Anderson DR, Andreou R, Mangel J, Morrow B, Clement AM, Wells PS. A pilot study of central venous catheter survival in cancer patients using low molecular weight heparin (dalteparin) and warfarin without catheter removal for the treatment of upper extremity deep vein thrombosis (The Catheter Study) *J Thromb Haemost*, 5(8):1650-1653,2007

--Rodger MA, **Kahn SR**, Cranney A, Hodson A, Kovacs M, Clement AM, Lazo-Langer A, Hague B, Karovitch A, Keely E, Walker M, Robinson S, Blostein M, Smith G, Kingdom J, Demers C, Solymoss S, Khurana R, Rey E and Wells PS. Long Term Dalteparin in Pregnancy is Not Associated with a Decrease in Bone Mineral Density: A Sub-Study of a Randomized Controlled Trial. *J Thromb Haemost*, 5(8):1600-1606,2007

--Abou-Nassar K, Kovacs MJ, **Kahn SR**, Wells P, Doucette S, Ramsay T, Clement A-M, Khurana R, MacKinnon K, Blostein M, Solymoss S, Kingdom J, Sermer M, Rey E, Rodger M for the TIPPS investigators. The effect of dalteparin on coagulation activation

during pregnancy in women with thrombophilia: a randomized trial. Thrombosis and Haemostasis, 98(1):163-171, 2007

--Cook LM, **Kahn SR**, Goodwin J, Kovacs MJ. Frequency of renal impairment, advanced age, obesity and cancer in venous thromboembolism patients in clinical practice. J Thromb Haemost 5: 937-41, 2007

--Tagalakis V, Blostein M, Robinson-Cohen C, **Kahn SR**. The effect of anticoagulants on cancer risk and survival: Systematic review. Cancer Treat Rev, 33(4):358-68, 2007.

--\*Tagalakis V, **Kahn SR**, Correa J, Libman MD, Solymoss S, Miller M, Blostein M. Thrombophilia in short peripheral catheter thrombophlebitis. Thromb Res, 119(5):587-592, 2007

--Hull RD, Pineo GF, Brant RFM, Mah AF, Burke N, Dear R, Wong T, Cook R, Solymoss S, Poon M-C, Raskob G and LITE Investigators (includes **Kahn SR**). Self-managed long-term low-molecular-weight heparin therapy: the balance of benefits and harms. Am J Med 2007;120(1):72-82.

--**Kahn SR**, Panju A, Geerts W, Pineo GF, Desjardins L, Turpie AGG, Glezer S, Thabane L, Sebaldt R for CURVE Study Investigators. Multicenter evaluation of the use of venous thromboembolism prophylaxis in acutely ill medical patients in Canada. Thromb Res 2007;119:145-155.

### **Schiffrin, Ernesto L.**

--Ko EA, Amiri F, Pandey NR, Touyz RM, **Schiffrin EL**. Resistance artery remodeling in deoxycorticosterone acetate-salt hypertension is dependent on vascular inflammation: evidence from m-csf deficient mice. Amer J Physiol (Heart Circul Physiol) 2007;292: H1789 - H1795.

--Pandey NR, Benkirane K, Amiri F, **Schiffrin EL**. Effects of PPAR-gamma knock-down and hyperglycemia on insulin signaling in vascular smooth muscle cells from hypertensive rats, J Cardiovasc Pharmacol. 2007 Jun; 49(6):346-54.

--Montezano AC, Amiri F, Tostes RC, Touyz RM, **Schiffrin EL**. Inhibitory effects of PPAR-g on endothelin-1-induced inflammatory pathways in vascular smooth muscle cells from normotensive and hypertensive rats. J Amer Soc Hypert 2007;1:150-160.

--De Ciuceis C, Amiri F, Iglarz M, Cohn JS, Touyz RM, **Schiffrin EL**. Synergistic vascular protective effects of combined low doses of PPAR $\alpha$  and PPAR $\gamma$  activators in Ang II-induced hypertension. Brit J Pharmacol 2007;151:45-53.

--Pu Q, Brassard P, Javeshghani DM, Iglarz M, Webb RL, Amiri F, **Schiffrin EL**. Effects of combined AT1 receptor antagonist/NEP inhibitor on vascular remodeling and

cardiac fibrosis in SHRSP. *J Hypertens*. 2008 Feb;26(2):322-33.

--Viel EC, Benkirane K, Javeshghani D, Touyz RM, **Schiffrin EL**. Xanthine Oxidase and Mitochondria Contribute to Vascular Superoxide Anion Generation in DOCA-Salt Hypertensive Rats. *Am J Physiol Heart Circ Physiol*. 2008 May 23.

--Amiri F, Paradis P, Reudelhuber TL, **Schiffrin EL**. Vascular inflammation in absence of blood pressure elevation in transgenic murine model overexpressing endothelin-1 in endothelial cells. *J Hypertens*. 2008 ; in press.

--Sampaio WO, Santos RAS, Faria-Silva R, **Schiffrin EL**, Touyz RM. Angiotensin-(1-7) through receptor mas mediates endothelial nitric oxide synthase activation via Akt-dependent pathways. *Hypertension*, 49:185-192, 2007

--Savoia C, Touyz RM, De Ciuceis C, Ko EA, **Schiffrin EL**. Angiotensin II type 2 receptor contributes to vascular responses in resistance arteries of type 2 diabetic hypertensive patients treated with angiotensin type 1 receptor blockers. *Hypertension*, 49:341-346, 2007

--Savoia C, **Schiffrin EL**. Vascular inflammation in hypertension and diabetes: molecular mechanisms and therapeutic interventions. Invited review. *Clin Sci*, 112:375-384, 2007

--**Schiffrin EL**. The vascular phenotypes in hypertension: relation to the natural history of hypertension. *J Amer Soc Hypert*, 1:56-67, 2007

--Ko EA, Amiri F, Pandey NR, Touyz RM, **Schiffrin EL**. Resistance artery remodeling in deoxycorticosterone acetate-salt hypertension is dependent on vascular inflammation: evidence from m-csf deficient mice. *Amer J Physiol (Heart Circul Physiol)*, 292:H1789 - H1795, 2007

--Montezano AC, Amiri F, Tostes RC, Touyz RM, **Schiffrin EL**. Inhibitory effects of PPAR-g on endothelin-1-induced inflammatory pathways in vascular smooth muscle cells from normotensive and hypertensive rats. *J Amer Soc Hypert*, 1:150-160, 2007

--De Ciuceis C, Amiri F, Iglarz M, Cohn JS, Touyz RM, **Schiffrin EL**. Synergistic vascular protective effects of combined low doses of PPAR $\alpha$  and PPAR $\gamma$  activators in Ang II-induced hypertension. *Brit J Pharmacol*, 151:45-53, 2007

--Savoia C, **Schiffrin EL**. Angiotensin Type 2 Receptors in the Cardiovascular System. *High Blood Pressure & Cardiovascular Prevention*, 14:63-68, 2007

--Pandey NR, Benkirane K, Amiri F, **Schiffrin EL**. Effects of PPAR-g Knock-down and hyperglycemia on insulin signaling in vascular smooth muscle cells from hypertensive rats. *J Cardiovasc Pharmacol*, 49:346-354, 2007

--Ebrahimian T, He Y, **Schiffrin EL**, Touyz RM. Differential regulation of thioredoxin and NAD(P)H oxidase by angiotensin II in Male and Female mice. *J Hypertens*, 25:1263-1272, 2007

--**Schiffrin EL**, Lipman M, Mann JFE. Chronic kidney disease: Effect on the cardiovascular system. Invited review. *Circulation*, 116:85-97, 2007

--Touyz RM, Savoia C, Endemann D, Pu Q, Ko EA, De Ciuceis C, **Schiffrin EL**. Systemic Inflammation is Increased in Hypertensive Type 2 Diabetic Patients: Improvement after Antihypertensive Therapy. *J Amer Soc Hypert*, 1:189-199, 2007

--Yogi A, Callera GE, Montezano ACI, Tostes RC, **Schiffrin EL**, Touyz RM. Endothelin-1, but not Ang II, activates MAP kinases through c-Src- independent, Ras-Raf-dependent, pathways in vascular smooth muscle cells. *Atheroscl Thromb Vasc Biol*, 27:1960-1967, 2007

--Leibovitz E, **Schiffrin EL**. PPAR activation: a new target for the treatment of hypertension. Invited review. *J Cardiovasc Pharmacol*, 50(2):120-125, 2007

--Leibovitz E, **Schiffrin EL**. Novel drugs targeting hypertension: Renin inhibitors and beyond. Invited review. *J Cardiovasc Pharmacol*, 50(1):3-8, 2007

--Javeshghani D, Sairam MR, **Schiffrin EL**, Touyz RM. Increased Blood Pressure, Vascular Inflammation and Endothelial Dysfunction in Androgen-Deficient Follitropin Receptor Knockout Male Mice. *J Amer Soc Hypert*, 1:353-361, 2007

--Savoia C, **Schiffrin EL**. Reduction of C-reactive protein and the use of anti-hypertensives. Invited review. *Vascular Health and Risk Management*, 3:975-983, 2007

--Sampaio WO, de Castro CH, Santos R, **Schiffrin EL**, Touyz RM. Angiotensin-(1-7) counter-regulates angiotensin II signaling in human endothelial cells. *Hypertension*, 50:1093-1098, 2007

#### **Other Publications:**

--**Schiffrin EL**. New twist to the role of the renin-angiotensin system in heart failure: aldosterone upregulates renin-angiotensin system components in the brain. *Hypertension*. 2008 Mar;51(3):622-3.

--**Schiffrin EL**. Role of Endothelin-1 in Hypertension. In: *Hypertension and Hormone Mechanisms*, Editor Robert M. Carey, Humana Press, NJ, 2007.

--Touyz RM, **Schiffrin EL**. Inflammation in Hypertension. In: *Hypertension and Hormone Mechanisms*, Editor Robert M. Carey, Humana Press, NJ, 2007.

--Amiri F, Benkirane K, **Schiffrin EL**. Intracellular signaling pathways and peroxisome proliferator activator receptors in vascular health in hypertension and diabetes. Chapter in "Oxidative Stress and Inflammatory Mechanisms in Obesity, Diabetes and the Metabolic Syndrome". Editors Lester Packer, Ute Obermueller-Jevic, Helmut Sies. CRC Press, 2007, Chapter 12, pp. 195-210.

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## **III OBJECTIVES AND PRIORITIES**

The Division of Internal Medicine will continue to provide exemplary service in research, teaching, clinical service and administration to the hospital and the university.