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Date Submitted: 2013-09-03 14:30:53**Confirmation Number:** 122254**Template:** CIHR Academic

Personal Information

Identification

Dr. Ashok Srivastava

Correspondence language: English

Sex: Male

Date of Birth: 7/05

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Language Skills

Language	Read	Write	Speak	Understand
English	Yes	Yes	Yes	Yes
French	Yes	No	Yes	Yes

Address

The primary address is denoted by (*)

Courier	Primary Affiliation (*)
Centre de recherche CRCHUM-Angus Technopole 2901 Rachel East suite 304 Montreal H1W 4A4 Canada, Quebec	Centre de recherche CRCHUM-Angus Technopole 2901 Rachel Est suite 304 Montreal H1W 4A4 Canada, Quebec

Telephone

The primary telephone is denoted by (*)

Fax	514-4127648
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Email

The primary email is denoted by (*)

Work (*)	ashok.srivastava@umontreal.ca
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User Profile

Disciplines Trained In: Biochemistry, Endocrinology

Research Disciplines: Biochemistry, Cell Biology

Areas of Research: Cardiovascular Diseases, Cell Signaling, Diabetes, Hypertension, Metabolic Diseases

Fields of Application: Biomedical Aspects of Human Health, Pathogenesis and Treatment of Diseases

Research Specialization Keywords: Growth factors, Vascular dysfunction, vasoactive peptides, Cell signaling, cell biology, insulin action, lipid kinases, protein kinases, protein phosphatases, smooth muscle contraction

Education

Degrees

1970/9 - 1974/6	Doctorate - Doctor of Philosophy - Biochemistry - Kanpur University - Completed Supervisors: Dr. C.R. Krishna Murti
1968/9 - 1970/6	Master's non-Thesis - Master of Science - Masters - Biochemistry - University of Lucknow - Completed
1965/9 - 1968/6	Bachelor's - Bachelor of Science - Chemistry, Botany, Zoology - University of Lucknow - Completed

Recognitions

2008/11 - 2008/11	Vincenzo Panagia Distinguished Lecture Award - Distinction The University of Manitoba Amount: 0
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Employment

Academic Work Experience

2005/6 -	Full Professor Université de Montréal - Médecine
1998/6 - 2005/5	Associate Professor Université de Montréal - Médecine
1982/7 - 1998/6	Assistant Professor Université de Montréal - Médecine

Non-academic Work Experience

1996/6 -	Department Chair/Head, Laboratory of Cell Signaling - Centre hospitalier de l'université de Montréal
1992/10 - 1996/6	Scientist - Centre hospitalier de l'université de Montréal
1977/7 - 1980/7	Fellow - Vanderbilt University
1974/7 - 1977/7	Fellow - University of Southern California

Affiliations

The primary affiliation is denoted by (*)

1996/6 -	Director, Laboratory of Cell Signaling, - Centre de recherche - Centre hospitalier de l'université de Montréal
(*) 1982/6 -	Professor - Medecine - Université de Montréal

Research Funding History

Awarded

2009/4 - 2014/3 Principal Applicant	Vasoactive peptide and growth factor-induced signaling in vascular smooth muscle cells in health and disease Principal Applicant : Ashok Srivastava (PI)	
	Funding Sources	
	2009/4 - 2014/3	operating grant Canadian Institutes of Health Research (CIHR) Total Funding: 643660 (Canadian dollar) Funding Competitive?: Yes

Activities

Supervisory Activities

Student/Postdoctoral Supervision

Principal Supervisor	Viktoria Youreva - Master's Thesis - U of Montreal - In Progress Student Degree Start Date: 2011/9 Student Degree Expected Date: 2013/12 Project Description: Regulation of IGF-1-induced Egr-1 expression by MAP kinases and PKC in VSMC.
Principal Supervisor	Estelle Rolande Simo-Cheyrou, - Doctorate - U of Montreal - In Progress Student Degree Start Date: 2009/9 Student Degree Expected Date: 2015/3 Project Description: CaMKII in vascular biology and disease
Principal Supervisor	Ahmed Mir - Master's Thesis - U of Montreal - In Progress Student Degree Start Date: 2010/8 Student Degree Expected Date: 2013/12 Project Description: Vasoactive peptides and histone deacetylases
Principal Supervisor	Kapakos Georgia - Master's Thesis - U of Montreal - Completed Student Degree Start Date: 2008/9 Student Degree Received Date: 2011/12 Project Description: Modulation of Endothelin-1 and Insulin-like Growth Factor Type 1-induced Signaling by Curcumin in A-10 Vascular Smooth Muscle Cells Present Position: Resarch Assistant
Principal Supervisor	George Vardatsikos, - Doctorate - U of montreal - Completed Student Degree Start Date: 2007/9 Student Degree Received Date: 2012/9 Project Description: Vasoactive peptide signaling in the vascular system Present Position: Post doctoral fellow

Principal Supervisor	Sahu Anita - Doctorate - U of Montreal - Withdrawn Student Degree Start Date: 2007/5 Project Description: Tyrosine kinases in vascular signaling Present Position: Unknown
Principal Supervisor	George Vardatsikos, - Master's Thesis - U of Montreal - Completed Student Degree Start Date: 2005/9 Student Degree Received Date: 2007/9 Project Description: Insulin-mimetic and anti-diabetic effects of Zinc Present Position: Post doctoral fellow
Principal Supervisor	Ali Bouallegue - Doctorate - U of Montreal - Completed Student Degree Start Date: 2004/9 Student Degree Received Date: 2009/12 Project Description: Endothelin-1 and hydrogen peroxide-induced signaling in vascular smooth muscle cells: modulation by CaMKII and nitric oxide Present Position: Clinical Fellow

Contributions

Presentations

2012-09-26	"Endothelin-1-induced Signaling in Vascular Smooth Muscle Cells", Institute of Cardiovascular Sciences, St.-Boniface General Hospital, Faculty of Medicine, University of Manitoba, Canada, Manitoba, Winnipeg Main Audience: Researcher Invited?: Yes
2012-06-07	"Modulation of oxidant-induced signaling by calcium and Calmodulin system in vascular smooth muscle cells", World Congress of the International Society for Adaptive Medicine, Romania, Bucharest Main Audience: Researcher Invited?: Yes
2012-05-12	"Attenuation of ET-1- induced signaling by curcumin in vascular smooth muscle cells", 7th Canadian Oxidative Stress Consortium, Canada, Ontario, Thunder Bay Main Audience: Researcher Invited?: Yes
2012-04-03	"Endothelin-1-induced signaling in vascular smooth muscle cells", GEPRM, Department of Physiology, University of Montreal, Canada, Quebec, Montreal Main Audience: Researcher Invited?: Yes
2012-02-17	"Modulation of Ca-calmodulin- dependent protein kinase II alpha expression by ET-1 in vascular smooth muscle cells", International Conference on Cardiovascular Research Convergence, India, New Delhi Main Audience: Researcher Invited?: Yes

2012-02-16	"Endothelin-1 Signaling and physiological responses in vascular smooth muscle cells", International Conference on Recent Advances in Cardiovascular Sciences and Translational Medicine, India, Noida Main Audience: Researcher Invited?: Yes
2011-10-14	"C-src as a mediator of Endothelin-1-induced responses in vascular smooth muscle cells", Winnipeg Heart International Conference, Canada, Manitoba, Winnipeg Main Audience: Researcher Invited?: Yes
2011-02-01	"Role of calmodulin- dependent protein kinase II in vasoactive peptide signaling", International Symposium on Advances in Cardiovascular Research: from genes and molecules to clinical application, Slovakia, Bratislava Main Audience: Researcher Invited?: Yes
2010-02-01	"Involvement of calmodulin- dependent protein kinase II in Endothelin-1-induced signaling and hypertrophic responses in vascular smooth muscle cells", Fourth World congress of International Academy of Cardiovascular Sciences, India, Baroda Main Audience: Researcher Invited?: Yes
2010-01-12	"Calmodulin-dependent protein kinase mediates ROS-induced signaling responses in vascular smooth muscle cells", International Conference on Advances in Free Radical Research and Ninth Annual Meeting of Society of Free Radical Research- India, India, Hyderabad Main Audience: Researcher Invited?: Yes
2009-08-10	"Special invited lecture, "Role of AKT/PKB signaling in insulinomimetic and antidiabetic effects of vanadium compounds", The second affiliated hospital of Sun Yat-Sen University, China, Guangzhou Main Audience: Researcher Invited?: Yes
2009-08-05	"Calmodulin-dependent protein kinase regulates vasoactive peptide and redox-induced responses in vascular smooth muscle cells", Ninth World Congress of the International Society for Adaptive Medicine, Taiwan, Province of China, Taipei Main Audience: Researcher Invited?: Yes
2009-05-09	"Role of calmodulin- dependent protein kinase II in ROS-induced signaling", Canadian Oxidative Stress Consortium, Canada, Manitoba, Winnipeg Main Audience: Researcher Invited?: Yes
2009-01-09	"Signal transduction by oxidative stress in vascular smooth muscle cells", First Cuba- Canada International Heart Symposium, Cuba, Holguin Main Audience: Researcher Invited?: Yes

Publications

PubMed Articles

2013-03-01	Vardatsikos G , Pandey NR , Srivastava AK, "Insulino-mimetic and anti-diabetic effects of zinc.", Journal of inorganic biochemistry, 120 PubMed ID: 23266931
2013-03-01	Youreva V , Kapakos G , Srivastava AK, "Insulin-like growth-factor-1-induced PKB signaling and Egr-1 expression is inhibited by curcumin in A-10 vascular smooth muscle cells.", Canadian journal of physiology and pharmacology, 91(3) PubMed ID: 23537438
2012-10-01	Kapakos G , Youreva V , Srivastava AK, "Cardiovascular protection by curcumin: molecular aspects.", Indian journal of biochemistry & biophysics, 49(5) PubMed ID: 23259317
2012-09-01	Kapakos G , Youreva V , Srivastava AK, "Attenuation of endothelin-1-induced PKB and ERK1/2 signaling, as well as Egr-1 expression, by curcumin in A-10 vascular smooth muscle cells.", Canadian journal of physiology and pharmacology, 90(9) PubMed ID: 22913328
2010-11-01	Kapakos G , Bouallegue A , Daou GB , Srivastava AK, "Modulatory Role of Nitric Oxide/cGMP System in Endothelin-1-Induced Signaling Responses in Vascular Smooth Muscle Cells.", Current cardiology reviews, 6(4) PubMed ID: 22043200
2010-05-01	Bouallegue A , Vardatsikos G , Srivastava AK, "Involvement of insulin-like growth factor 1 receptor transactivation in endothelin-1-induced signaling in vascular smooth muscle cells.", Canadian journal of physiology and pharmacology, 88(5) PubMed ID: 20555420
2010-03-01	Pandey NR , Vardatsikos G , Mehdi MZ , Srivastava AK, "Cell-type-specific roles of IGF-1R and EGFR in mediating Zn ²⁺ -induced ERK1/2 and PKB phosphorylation.", Journal of biological inorganic chemistry : JBIC : a publication of the Society of Biological Inorganic Chemistry, 15(3) PubMed ID: 19946718
2009-12-01	Bouallegue A , Vardatsikos G , Srivastava AK, "Role of insulin-like growth factor 1 receptor and c-Src in endothelin-1- and angiotensin II-induced PKB phosphorylation, and hypertrophic and proliferative responses in vascular smooth muscle cells.", Canadian journal of physiology and pharmacology, 87(12) PubMed ID: 20029537
2009-09-15	Bouallegue A , Pandey NR , Srivastava AK, "CaMKII knockdown attenuates H ₂ O ₂ -induced phosphorylation of ERK1/2, PKB/Akt, and IGF-1R in vascular smooth muscle cells.", Free radical biology & medicine, 47(6) PubMed ID: 19545622
2009-09-01	Vardatsikos G , Mehdi MZ , Srivastava AK, "Bis(maltolato)-oxovanadium (IV)-induced phosphorylation of PKB, GSK-3 and FOXO1 contributes to its glucoregulatory responses (review).", International journal of molecular medicine, 24(3) PubMed ID: 19639221

2009-05-01	Vardatsikos G , Sahu A , Srivastava AK, "The insulin-like growth factor family: molecular mechanisms, redox regulation, and clinical implications.", <i>Antioxidants & redox signaling</i> , 11(5) PubMed ID: 19014342
2008-08-01	Ekladous D , Mehdi MZ , Costa M , Srivastava AK , Chiasson JL , Coderre L, "Tissue- and fibre-specific modifications of insulin-signalling molecules in cardiac and skeletal muscle of diabetic rats.", <i>Clinical and experimental pharmacology & physiology</i> , 35(8) Open Access?: Yes PubMed ID: 18430054 Funding Sources: Canadian Institutes of Health Research (CIHR) - 67037

Journal Articles

In Press Last Author	Madhu B. Anand-Srivastava and Ashok K. Srivastava., "G-protein coupled receptors in vascular biology: Implication in health and disease", <i>Current Vascular Pharmacology</i> , Unknown
2013/9 Submitted Last Author	"Role of PI-3-Kinase/PKB signaling in IGF-1-induced Egr-1 expression in VSMC", <i>Pharmacological Research</i> Refereed?: Yes
2013/8 Submitted Last Author	Bouallague, A., Simo Cheyou, E.R., Anand-Srivastava, M.B. and Srivastava, A.K, "CaMKinase II mediates ET-1-induced ERK1/2 and PKB activation as well as hypertrophy and proliferation in VSMC", <i>Cell Calcium</i> Refereed?: Yes
2013/5 Accepted Last Author	Simo Cheyou, E.R., Bouallague, A. and Srivastava, A.K, "Ca ²⁺ /CaM-dependent protein kinase II in vasoactive peptide signaling and vascular biology", <i>Current Vascular Pharmacology</i> Refereed?: Yes
2013/1 Submitted Last Author	Vardatsikos, G. and Srivastava, A.K, "Implication of c-Src Tyrosine Kinase in Angiotensin II and Endothelin-1-induced MAPK Activation and Early Growth-Response Factor-1 Expression in Vascular Smooth Muscle Cells (VSMC)", <i>Pharmacological Research</i> Refereed?: Yes

Book Chapters

2011/5 Published Co-Author	"Implication of CaM Kinase II in H ₂ O ₂ –induced signaling pathways and in Cardiovascular pathophysiology", <i>Adaptation Biology and Medicine</i> (6), Narosa Publishers Refereed?: No Authors: Bouallague, A. and Srivastava, A. K
2011/3 Published Co-Author	"Involvement of growth factor receptor and non- receptor tyrosine kinases in Endothelin-1 and angiotensin II –induced signaling pathways in Cardiovascular system", <i>Molecular Defects in Heart Disease</i> , Springer Publishers Refereed?: No Authors: Vardatsikos,G and Srivastava, A. K

Conference Publications

2012/4 Published Last Author	Simo Cheyou, E.R. and Srivastava, A.K., "Endothelin-1 induces Ca-Calmodulin –dependent protein kinase II alpha expression through an ERK ½ -dependent pathway in vascular smooth muscle cells" Abstract Presented at the Experimental Biology 2012 Meeting, San Diego Invited?: No
2012/4 Published Last Author	Youvera, V. Vardatsikos, G. and Srivastava, A.K., "Endothelin-1 induced early growth response factor-1 expression in vascular smooth muscle cells. Requires c-src and ERK1/2 activation" Abstract Presented at the Experimental Biology 2012 Meeting, San Diego Invited?: No
2011/10 Published Last Author	Vardatsikos, G., and Srivastava, A.K., "Implication of C-SRC in Endothelin-1-induced MAPK activation and Egr-1 Expression in Vascular Smooth Muscle Cells" Abstract Winnipeg Heart International Conference 2011 Invited?: No
2011/9 Published Last Author	Vardatsikos, G., and Srivastava, A.K., "Implication of IGF-1R, ERK1/2 AND C-SRC in Endothelin-1-induced Early Growth- Response Factor-1 Expression in Vascular Smooth Muscle Cells (VSMC)" Abstract Winnipeg Heart International Conference 2011 Invited?: No
2011/1 Published Last Author	Vardatsikos, G., and Srivastava, A.K., "Role of c-Src in EGR-1 modulation and MAPK activation by endothelin-1 and angiotensin II in vascular smooth muscle cells" Abstract Montreal Diabetes Research Center annual retreat Invited?: No
2010/8 Published Last Author	Vardatsikos, G., Kapakos, G. and Srivastava, A.K., "Requirement of c-Src in Angiotensin II and Endothelin 1-induced Activation of MAPKinases in Vascular Smooth Muscle Cells (VSMC)" Abstract EB 2010 Invited?: No
2010/1 Published Last Author	Vardatsikos, G., Bouallegue, A. and Srivastava, A.K., "Implication d'IGF-1R et c-Src dans la phosphorylation de PKB induite par l'endothéline-1 et l'angiotensine II dans les VSMC" Abstract 18ème réunion scientifique annuelle de la Société Québécoise d'Hypertension Artérielle Invited?: No
2009/9 Published Last Author	Bouallegue, A., Vardatsikos, G., and Srivastava, A.K., "Role of the insulin-like growth factor-1 receptor and c-Src in endothelin-1 and angiotensin II-induced PKB phosphorylation as well as hypertrophic and proliferative responses in vascular smooth muscle cells" Abstract Canadian Cardiovascular Congress Invited?: No
2009/9 Published Last Author	Vardatsikos, G., Bouallegue, A. and Srivastava A.K, "Endothelin-1 and angiotensin II-induced PKB phosphorylation is dependent on insulin-like growth factor-1 receptor and c-Src activation in vascular smooth muscle cells" Abstract American Physiological Society – 11th International Conference on Endothelin Invited?: No