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Personal Information

Identification

Dr. Simon Sipen Wing

Correspondence language: English

Sex: Male

Date of Birth: 7/22

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

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Polypeptide Lab./ McGill University 3640 University St., Room W315 Montreal H3A 0C7 Canada, Quebec	Polypeptide Laboratory McGill University 3640 rue University, Room W315 Montréal H3A 0C7 Canada, Quebec

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Work (*)	simon.wing@mcgill.ca
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User Profile

Disciplines Trained In: Molecular Biology, Physiology

Research Disciplines: Biochemistry, Physiology

Areas of Research: Cellular Division, Male Infertility, Metabolism, Muscle, Nutrition and Aging

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

Research Specialization Keywords: cachexia, cell culture, Intracellular proteolysis, molecular biology, muscle wasting, protein metabolism, protein purification, spermatogenesis, ubiquitin

Education

Degrees

1990/1 - 1992/10	Post-doctorate - Fellowship - Mammalian Cell Genetics - National Research Council Canada Biotechnology Research Institute - Completed Supervisors: Drs. D. Banville, D. Thomas
1987/7 - 1989/12	Post-doctorate - Fellowship - Cellular and Molecular Physiology - Harvard Medical School - Completed Supervisors: Dr. A. Goldberg
1977/9 - 1981/5	Doctorate Equivalent - Doctor of Medicine - M.D. - Endocrinology - McGill University - Completed
1974/9 - 1977/6	Bachelor's - Bachelor of Science - Biochemistry - McGill University - Completed

Credentials

1982/6 -	Medical Licence - Corp. Professionnelle des Medecins du Quebec
1985/7 - 1987/6	Endocrinology & Metabolism - FRCP, CSPQ, ABIM - McGill University
1981/7 - 1984/6	Internal Medicine - FRCP, CSPQ, ABIM - Royal Victoria Hospital

Recognitions

2007/5 - 2008/5	Staff Award for Excellence in Research - Distinction McGill University Health Center Amount: 0
2000/5 -	Election to Amer. Soc. for Clinical Investigation - Distinction American Society for Clinical Investigation Amount: 0
1986/1 -	Chief Medical Resident - Distinction Royal Victoria Hospital Amount: 0

Employment

Academic Work Experience

2006/4 -	Professor McGill University - Medicine
1998/5 -	Associate Member McGill University - Biochemistry

1993/12 -	Associate Member McGill University - Physiology
1999/6 - 2006/3	Associate Professor McGill University - Medicine
1993/4 - 1999/5	Assistant Professor McGill University - Medicine

Non-academic Work Experience

1999/6 -	Physician - McGill University Health Centre
2003/11 - 2011/12	Director, Division of Endocrinology & Metabolism - McGill University Health Centre
2003/11 - 2011/12	Director, Adult Endocrinology & Metabolism - McGill University

Affiliations

The primary affiliation is denoted by (*)

(*) 2006/4 -	Professor - Medicine - McGill University
1993/4 -	Member - The Research Institute of the McGill University Health Centre

Research Funding History

Awarded

2011/10 - 2015/9 Principal Investigator	Role of the Ubiquitin System in Sperm Development and Function Co-applicant : Daniel Cyr	
	Funding Sources	
	2011/10 - 2015/9	Operating Canadian Institutes of Health Research (CIHR) Total Funding: 597516 (Canadian dollar) Funding Competitive?: Yes
2010/4 - 2015/3 Principal Investigator	Function of USP19 deubiquitinating enzyme in muscle wasting Principal Investigator : n/a	
	Funding Sources	
	2010/4 - 2015/3	Operating Canadian Institutes of Health Research (CIHR) Total Funding: 735735 (Canadian dollar) Funding Competitive?: Yes
2011/2 - 2014/1 Principal Investigator	The Role of the Huwe1 Ubiquitin-Ligase in Regulation of Histone Ubiquitination, Gene Expression, and Development of Male Germ Cells Co-applicant : Hsiao Chang Chan; Huanxun Yue; Principal Investigator : Wenming Xu	

	Funding Sources
2011/2 - 2014/1	FRSQ-GQ-Nat Science Fdn China-Research Genomics & Disease Fonds de la Recherche en Santé du Québec (FRSQ) Total Funding: 147500 (Canadian dollar) Funding Competitive?: Yes

Completed

2007/7 - 2010/6 Principal Investigator	Role of the USP 19 deubiquitinating enzyme in cell proliferation Principal Investigator : n/a Funding Sources
2007/7 - 2010/6	Operating National Cancer Institute of Canada (NCIC) Total Funding: 366009 (Canadian dollar) Funding Competitive?: Yes
2009/6 - 2010/5 Principal Investigator	Metabolism and Cancer: from Obesity to Cachexia Principal Investigator : Giguere, Vincent; Vincent Giguere, Errol Marliss, Tommy Nilsson Funding Sources
2009/6 - 2010/5	New Initiatives Fund Canada Foundation for Innovation (CFI) Total Funding: 3869519 (Canadian dollar) Funding Competitive?: Yes
2007/4 - 2010/3 Principal Investigator	Function of USP19 deubiquitinating enzyme in muscle wasting Principal Investigator : n/a Funding Sources
2007/4 - 2010/3	Operating Canadian Institutes of Health Research (CIHR) Total Funding: 315538 (Canadian dollar) Funding Competitive?: Yes
2008/9 - 2009/8 Co-investigator	Towards an understanding of the anorexia cachexia syndrome- Linking molecular mechanisms with novel treatment options Principal Investigator : Pelletier, Jerry/ MacDonald, Neil Funding Sources
2008/9 - 2009/8	Terry Fox Research Institute (TFRI) Total Funding: 433323 (Canadian dollar) Funding Competitive?: Yes
2005/10 - 2008/9 Principal Investigator	Function of ubiquitin dependent proteolysis during spermatogenesis Funding Sources
2005/10 - 2008/9	Operating Canadian Institutes of Health Research (CIHR) Total Funding: 335925 (Canadian dollar) Funding Competitive?: Yes
2003/7 - 2008/7 Principal Investigator	Fonction et regulation de la proteolyse ubiquitine dependante durant la spermatogenese

Funding Sources	
2003/7 - 2008/7	Chercheur National Fonds de la Recherche en Santé du Québec (FRSQ) Total Funding: 342135 (Canadian dollar) Funding Competitive?: Yes

Activities

Supervisory Activities

Student/Postdoctoral Supervision

Principal Supervisor	Lin H. - Doctorate - McGill University - Completed Student Degree Start Date: 1996/5 Student Degree Received Date: 2000/4 Project Description: Function of deubiquitinating enzyme during spermatogenesis Present Position: Research Fellow, Harvard Medical School
Principal Supervisor	Kin Lam Ellis Fok - Post-doctorate - McGill University - In Progress Student Degree Start Date: 2013/3 Project Description: Role of the Huwe1 Ubiquitin Ligase in Germ Cell Development
Principal Supervisor	Liu Z. - Doctorate - McGill University - Completed Student Degree Start Date: 2000/9 Student Degree Received Date: 2006/9 Project Description: Structure and function of E3 histone Present Position: Scientist, Biogen
Principal Supervisor	Reid J. - Master's Thesis - McGill University - Completed Student Degree Start Date: 2000/1 Student Degree Received Date: 2003/1 Project Description: Structure-function relationships of the USP2 deubiquitinating enzyme Present Position: Industry
Principal Supervisor	Asbah Nimara - Master's Thesis - McGill University - In Progress Student Degree Start Date: 2012/9 Project Description: Regulation of metabolism by the USP19 deubiquitinating enzyme
Principal Supervisor	Oughtred R. - Doctorate - McGill University - Completed Student Degree Start Date: 1995/7 Student Degree Received Date: 2000/4 Project Description: Identification of ubiquitin protein ligases Present Position: Research Associate, Rutgers University
Principal Supervisor	Sundaram P. - Master's Thesis - McGill University - Completed Student Degree Start Date: 2006/9 Student Degree Received Date: 2009/1 Project Description: Function of USP19 deubiquitinating enzyme Present Position: MBA Wilfred Laurier University

Principal Supervisor	Lu Yu - Doctorate - McGill University - Completed Student Degree Start Date: 2003/9 Student Degree Received Date: 2009/12 Project Description: Function of USP19 deubiquitinating enzyme Present Position: Scientist - Perkin Elmer
Principal Supervisor	Benjamin Wiles - Master's Thesis - McGill University - In Progress Student Degree Start Date: 2011/9 Project Description: Role of USP19 in muscle wasting
Principal Supervisor	Pascal Hingamp - Post-doctorate - McGill University - Completed Student Degree Start Date: 1995/7 Student Degree Received Date: 1997/9 Project Description: Function of the UBC4 ubiquitin conjugating enzyme in spermatogenesis Present Position: Maitre de conference, Aix-Marseilles Université, France
Principal Supervisor	Pang Z. - Doctorate - McGill University - Completed Student Degree Start Date: 2001/9 Student Degree Received Date: 2006/9 Project Description: Function of the EDD ubiquitin ligase Present Position: Radiology Residency - McGill University
Principal Supervisor	Combaret L. - Post-doctorate - McGill University - Completed Student Degree Start Date: 1997/6 Student Degree Received Date: 1998/9 Project Description: Regulation by insulin of ubiquitin protein ligases Present Position: Scientist, INRA, France
Principal Supervisor	Rohini Bose - Doctorate - McGill University - In Progress Student Degree Start Date: 2011/9 Project Description: Role of the ubiquitin system in spermatogenesis
Principal Supervisor	Moore T. - Master's Thesis - McGill University - Completed Student Degree Start Date: 2008/5 Student Degree Received Date: 2010/4 Project Description: Function of USP19 deubiquitinating enzyme Present Position: Research Assistant - Institut de Recherche Clinique de Montreal
Principal Supervisor	Coyne Erin - Master's Thesis - McGill University - In Progress Student Degree Start Date: 2012/9 Project Description: Role of the USP19 deubiquitinating enzyme in myogenesis
Principal Supervisor	Lee Sylvia - Master's Thesis - McGill University - Completed Student Degree Start Date: 2002/4 Student Degree Received Date: 2004/3 Project Description: Identification of substrates of USP2
Principal Supervisor	Adegoke O. - Post-doctorate - McGill University - Completed Student Degree Start Date: 1999/1 Student Degree Received Date: 2003/11 Project Description: Function of ubiquitin in skeletal muscle Present Position: Assistant Professor, York University

Principal Supervisor	Rajapurohitam V. - Post-doctorate - McGill University - Completed Student Degree Start Date: 1996/4 Student Degree Received Date: 1998/8 Project Description: Regulation of ubiquitin conjugation during spermatogenesis Present Position: Research Associate, University of Western Ontario
Principal Supervisor	Miao M. - Master's Thesis - McGill University - Completed Student Degree Start Date: 2007/10 Student Degree Received Date: 2010/9 Project Description: Regulation of USP19 in muscle wasting Present Position: Pharmacy Student - University of Vermont

Contributions

Presentations

2013-04-11	Bose R, Fok E, Xu W, Culty M, Chan HC, Iavarone A, Wing SS., "Role of ubiquitin ligase huwe1 in modulating spermatogonial development in the testis", 2013 Testis Workshop, United States, Texas, San Antonio Main Audience: Researcher Invited?: No Funding Sources: Canadian Institutes of Health Research (CIHR) - MOP 115106; Fonds de recherche du Québec - Santé (FRQS) - 24420
2012-10-19	Wing, SS, "Role of the ubiquitin proteasome system during spermatogenesis", International Symposium on Frontiers in Life Sciences 2012. Sichuan University, China, Chengu Main Audience: Researcher Invited?: Yes Funding Sources: Canadian Institutes of Health Research (CIHR) - MOP 115106; Fonds de recherche du Québec - Santé (FRQS) - 24420
2012-10-05	Wing, SS, "Role of the Deubiquitinating Enzyme USP19 in Regulation of Muscle Mass", Symposium on Skeletal Muscle Dysfunction in the Critically Ill, Canada, Quebec, Montreal Main Audience: Researcher Invited?: Yes Funding Sources: Canadian Institutes of Health Research (CIHR) - MOP 82734
2012-09-14	Bedard N, Jammoul S, Wiles B, Wykes L, Hallauer P, Hastings K, Robert F, Pelletier J and Wing SS, "Role of the USP19 deubiquitinating enzyme in muscle wasting.", Goldberg Lab Reunion Symposium entitled '43 Years of Degradation', Harvard Medical School, United States, Massachusetts, Boston Main Audience: Researcher Invited?: Yes Funding Sources: Canadian Institutes of Health Research (CIHR) - MOP 82734

2012-07-24	<p>Bedard N, Jammoul S, Wiles B, Wykes L, Hallauer P, Hastings K, Robert F, Pelletier J and Wing SS, "The USP19 deubiquitinating enzyme is required for skeletal muscle wasting.", Fourth Annual Ubiquitin Drug Discovery & Diagnostics Conference, United States, Pennsylvania, Philadelphia Main Audience: Knowledge User Invited?: Yes</p> <p>Funding Sources: Canadian Institutes of Health Research (CIHR) - MOP 82734</p>
2011-12-09	<p>Bedard N, Jammoul S, Wykes L, Hallauer P, Hastings K and Wing SS, "Mice lacking the USP19 deubiquitinating enzyme show less muscle wasting in response to several catabolic conditions due to suppression of ubiquitin ligases and autophagic genes and enhanced rates of protein synthesis.", 6th Cachexia Conference, Italy, Milan Main Audience: Researcher Invited?: No</p> <p>Funding Sources: Canadian Institutes of Health Research (CIHR) - MOP 82734</p>
2011-09-24	<p>Yang Y, Duguay D, Bedard N, Baquiran G, Na CN, Storch KF, Peng J, Cermakian N and Wing SS, "Regulation of clock protein function and behavioural circadian rhythms by the deubiquitinating enzyme USP2.", EMBO Ubiquitin Meeting, Croatia, Dubrovnik Main Audience: Researcher Invited?: No</p> <p>Funding Sources: Canadian Institutes of Health Research (CIHR) - MOP82734</p>
2011-06-20	<p>Manku G, Sarkar O, Wing S and Culty M, "Identification of ubiquitin-proteasome system genes and proteins in rat testis gonocytes.", Endocrine Society Annual Meeting, United States, Massachusetts, Boston Main Audience: Researcher Invited?: No</p> <p>Funding Sources: Canadian Institutes of Health Research (CIHR) - MOP 82734</p>
2011-05-23	<p>Yang Y, Duguay D, Bedard N, Baquiran G, Na CN, Storch KF, Peng J, Wing SS, and Cermakian N., "Regulation of clock protein function and behavioural circadian rhythms by the deubiquitinating enzyme USP2.", Cold Spring Harbor Meeting on The Ubiquitin Family, United States, New York, Cold Spring Harbor, NY Main Audience: Researcher Invited?: No</p> <p>Funding Sources: Canadian Institutes of Health Research (CIHR) - MOP82734</p>
2011-04-09	<p>Chevalier S, Burgos SA, Mehrfar P, Bedard N, Altig G, Marliss EB, "Skeletal muscle PI3K/Akt signaling and ubiquitin-related enzyme mRNA expression in lung cancer cachexia", Experimental Biology 2011 Meeting, Washington DC, April 9-13, 2011., United States, District of Columbia, Washington Main Audience: Knowledge User</p>
2011-03-30	<p>Bedard N+, Yang Y, Gregory M, Cyr DG, Suzuki J, Yu X, Chian R, Hermo L, O'Flaherty C, Smith CE, Clarke HJ, "Mice Lacking the USP2 Deubiquitinating Enzyme have Severe Male Sub-Fertility Associated with Defects in Fertilization and Sperm Motility", XXIst Testis Workshop, Canada, Quebec, Montreal Main Audience: Knowledge User</p>

2010-07-05	Duguay, D., Yang, Y., Rachalski, A., Baquiran, G., Ouellet, L., Storch, K.F., Cermakian, N, "The deubiquitinase USP2 is involved in the regulation of circadian rhythms", 26th International Society for Chronobiology conference, Spain, Vigo Main Audience: Knowledge User
2010-06-08	Wing SS, Bedard N, Miao M, Sundaram P, Pang Z, Moore T, Hallauer PL, Hastings KE., "Loss of USP19 increases transcription of myofibrillar proteins in L6 muscle cells and decreases muscle wasting in response to fasting, denervation and dexamethasone treatment in mice", FASEB Summer Research Conference on Ubiquitin, United States, Vermont, Saxtons River Main Audience: Knowledge User
2010-05-22	Duguay, D., Yang, Y., Rachalski, A., Baquiran, G., Ouellet, L., Storch, K.F., Wing, S.S., Cermakian, N, "The deubiquitinating enzyme USP2 is involved in the regulation of circadian rhythms", 12th Society for Research on Biological Rhythms meeting, United States, Florida, Sandestin Main Audience: Knowledge User
2009-12-05	Sundaram P, Pang Z, Miao M, Bedard N, Moore T, "Loss of USP19 increases transcription of myofibrillar proteins in L6 muscle cells and decreases muscle wasting in response to denervation in mice", 5th Cachexia Conference, Spain Main Audience: Knowledge User
2009-07-01	Duguay, D., Yang, Y., Baquiran, G., Ouellet, L., Storch, K.F, "The deubiquitinating enzyme USP2 is involved in the regulation of circadian rhythms.", Gordon Research Conference on Chronobiology, United States, Rhode Island, Newport Main Audience: Knowledge User
2009-04-21	Bedard N, Yang Y, Plourde M, Hermo L, Cyr D, Morales C, Clarke H, "Deubiquitinating enzyme USP2 is involved in spermatogenesis and required for normal male fertility.", Cold Spring Harbor Meeting on The Ubiquitin Family, United States, New York, Cold Spring Harbor Main Audience: Knowledge User
2009-04-01	"Deubiquitinating enzyme USP2 is involved in spermatogenesis and required for normal male fertility", Testis Workshop, United States, Pennsylvania, Philadelphia Main Audience: Researcher
2008-06-03	"USP19 Deubiquitinating Enzyme May Promote Muscle Wasting By Decreasing Expression Of Myosin Heavy Chain", FASEB Summer Research Conference on Ubiquitin, United States, Vermont, Saxtons River Main Audience: Researcher
2008-04-01	"Role of the USP19 Deubiquitinating Enzyme in Muscle Cell Proliferation and Differentiation.", Cold Spring Harbor Banbury Center Conference on Molecular Mechanisms Modulating Skeletal Muscle Mass & Function, United States, New York, Cold Spring Harbor Main Audience: Researcher Invited?: Yes

Publications

PubMed Articles

2012-08-15	Yang Y , Duguay D , Bédard N , Rachalski A , Baquiran G , Na CH , Fahrenkrug J , Storch KF , Peng J , Wing SS , Cermakian N, "Regulation of behavioral circadian rhythms and clock protein PER1 by the deubiquitinating enzyme USP2.", <i>Biology open</i> , 1(8) Open Access?: Yes PubMed ID: 23213472
2012-08-01	Manku G , Wing SS , Culty M, "Expression of the ubiquitin proteasome system in neonatal rat gonocytes and spermatogonia: role in gonocyte differentiation.", <i>Biology of reproduction</i> , 87(2) PubMed ID: 22592496
2012-05-01	Kitzler TM , Papillon J , Guillemette J , Wing SS , Cybulsky AV, "Complement modulates the function of the ubiquitin-proteasome system and endoplasmic reticulum-associated degradation in glomerular epithelial cells.", <i>Biochimica et biophysica acta</i> , 1823(5) PubMed ID: 22426620
2012-02-01	Robert F , Mills JR , Agenor A , Wang D , DiMarco S , Cencic R , Tremblay ML , Gallouzi IE , Hekimi S , Wing SS , Pelletier J, "Targeting protein synthesis in a Myc/mTOR-driven model of anorexia-cachexia syndrome delays its onset and prolongs survival.", <i>Cancer research</i> , 72(3) PubMed ID: 22158946
2012-01-02	Durcan TM , Kontogiannea M , Bedard N , Wing SS , Fon EA, "Ataxin-3 deubiquitination is coupled to Parkin ubiquitination via E2 ubiquitin-conjugating enzyme.", <i>The Journal of biological chemistry</i> , 287(1) PubMed ID: 22081612
2011-09-01	Bedard N , Yang Y , Gregory M , Cyr DG , Suzuki J , Yu X , Chian RC , Hermo L , O'Flaherty C , Smith CE , Clarke HJ , Wing SS, "Mice lacking the USP2 deubiquitinating enzyme have severe male subfertility associated with defects in fertilization and sperm motility.", <i>Biology of reproduction</i> , 85(3) PubMed ID: 21543767
2011-01-01	Lu Y , Bedard N , Chevalier S , Wing SS, "Identification of distinctive patterns of USP19-mediated growth regulation in normal and malignant cells.", <i>PloS one</i> , 6(1) PubMed ID: 21264218
2011-01-01	Wing SS , Lecker SH , Jagoe RT, "Proteolysis in illness-associated skeletal muscle atrophy: from pathways to networks.", <i>Critical reviews in clinical laboratory sciences</i> , 48(2) PubMed ID: 21699435
2009-12-01	Gonçalves DA , Lira EC , Baviera AM , Cao P , Zanon NM , Arany Z , Bedard N , Tanksale P , Wing SS , Lecker SH , Kettelhut IC , Navegantes LC, "Mechanisms involved in 3',5'-cyclic adenosine monophosphate-mediated inhibition of the ubiquitin-proteasome system in skeletal muscle.", <i>Endocrinology</i> , 150(12) PubMed ID: 19837877

2009-12-01	Sundaram P , Pang Z , Miao M , Yu L , Wing SS, "USP19-deubiquitinating enzyme regulates levels of major myofibrillar proteins in L6 muscle cells.", American journal of physiology. Endocrinology and metabolism, 297(6) PubMed ID: 19773579
2009-01-01	Lu Y , Adegoke OA , Nepveu A , Nakayama KI , Bedard N , Cheng D , Peng J , Wing SS, "USP19 deubiquitinating enzyme supports cell proliferation by stabilizing KPC1, a ubiquitin ligase for p27Kip1.", Molecular and cellular biology, 29(2) PubMed ID: 19015242
2009-01-01	Adegoke OA , Chevalier S , Morais JA , Gougeon R , Kimball SR , Jefferson LS , Wing SS , Marliss EB, "Fed-state clamp stimulates cellular mechanisms of muscle protein anabolism and modulates glucose disposal in normal men.", American journal of physiology. Endocrinology and metabolism, 296(1) PubMed ID: 18957614
2008-01-01	Wing SS, "The UPS in diabetes and obesity.", BMC biochemistry, 9 Suppl 1 PubMed ID: 19007436
2007-10-01	Liu Z , Miao D , Xia Q , Hermo L , Wing SS, "Regulated expression of the ubiquitin protein ligase, E3(Histone)/LASU1/Mule/ARF-BP1/HUWE1, during spermatogenesis.", Developmental dynamics : an official publication of the American Association of Anatomists, 236(10) PubMed ID: 17823942
2007-02-23	Ventadour S , Jarzaguet M , Wing SS , Chambon C , Combaret L , Béchet D , Attaix D , Taillandier D, "A new method of purification of proteasome substrates reveals polyubiquitination of 20 S proteasome subunits.", The Journal of biological chemistry, 282(8) PubMed ID: 17189251
2006-05-03	Yoshida M , Yoshida K , Kozlov G , Lim NS , De Crescenzo G , Pang Z , Berlanga JJ , Kahvejian A , Gehring K , Wing SS , Sonenberg N, "Poly(A) binding protein (PABP) homeostasis is mediated by the stability of its inhibitor, Paip2.", The EMBO journal, 25(9) PubMed ID: 16601676
2005-10-24	Warr MR , Acoca S , Liu Z , Germain M , Watson M , Blanchette M , Wing SS , Shore GC, "BH3-ligand regulates access of MCL-1 to its E3 ligase.", FEBS letters, 579(25) PubMed ID: 16213503
2005-10-01	Mackenzie ML , Bedard N , Wing SS , Baracos VE, "A proinflammatory tumor that activates protein degradation sensitizes rats to catabolic effects of endotoxin.", American journal of physiology. Endocrinology and metabolism, 289(4) PubMed ID: 15941785
2005-10-01	Wing SS, "Control of ubiquitination in skeletal muscle wasting.", The international journal of biochemistry & cell biology, 37(10) PubMed ID: 16125111
2005-08-01	Bedard N , Hingamp P , Pang Z , Karaplis A , Morales C , Trasler J , Cyr D , Gagnon C , Wing SS, "Mice lacking the UBC4-testis gene have a delay in postnatal testis development but normal spermatogenesis and fertility.", Molecular and cellular biology, 25(15) PubMed ID: 16024774

2005-04-01	Combaret L , Adegoke OA , Bedard N , Baracos V , Attaix D , Wing SS, "USP19 is a ubiquitin-specific protease regulated in rat skeletal muscle during catabolic states.", American journal of physiology. Endocrinology and metabolism, 288(4) PubMed ID: 15562254
2005-04-01	Liu Z , Oughtred R , Wing SS, "Characterization of E3Histone, a novel testis ubiquitin protein ligase which ubiquitinates histones.", Molecular and cellular biology, 25(7) PubMed ID: 15767685
2004-01-01	Kim S , Wing SS , Ponka P, "S-nitrosylation of IRP2 regulates its stability via the ubiquitin-proteasome pathway.", Molecular and cellular biology, 24(1) PubMed ID: 14673166
2003-05-01	Persinger R , Janssen-Heininger Y , Wing SS , Matthews DE , LeWinter MM , Toth MJ, "Effect of heart failure on the regulation of skeletal muscle protein synthesis, breakdown, and apoptosis.", American journal of physiology. Endocrinology and metabolism, 284(5) PubMed ID: 12582012
2003-05-01	Wing SS, "Deubiquitinating enzymes--the importance of driving in reverse along the ubiquitin-proteasome pathway.", The international journal of biochemistry & cell biology, 35(5) PubMed ID: 12672452
2002-10-01	Oughtred R , Bedard N , Adegoke OA , Morales CR , Trasler J , Rajapurohitam V , Wing SS, "Characterization of rat100, a 300-kilodalton ubiquitin-protein ligase induced in germ cells of the rat testis and similar to the Drosophila hyperplastic discs gene.", Endocrinology, 143(10) PubMed ID: 12239083
2002-09-01	Adegoke OA , Bédard N , Roest HP , Wing SS, "Ubiquitin-conjugating enzyme E214k/HR6B is dispensable for increased protein catabolism in muscle of fasted mice.", American journal of physiology. Endocrinology and metabolism, 283(3) PubMed ID: 12169441
2002-08-01	Beitel LK , Elhaji YA , Lumbroso R , Wing SS , Panet-Raymond V , Gottlieb B , Pinsky L , Trifiro MA, "Cloning and characterization of an androgen receptor N-terminal-interacting protein with ubiquitin-protein ligase activity.", Journal of molecular endocrinology, 29(1) PubMed ID: 12200228
2002-04-01	Rajapurohitam V , Bedard N , Wing SS, "Control of ubiquitination of proteins in rat tissues by ubiquitin conjugating enzymes and isopeptidases.", American journal of physiology. Endocrinology and metabolism, 282(4) PubMed ID: 11882492
2001-06-08	Lin H , Yin L , Reid J , Wilkinson KD , Wing SS, "Divergent N-terminal sequences of a deubiquitinating enzyme modulate substrate specificity.", The Journal of biological chemistry, 276(23) PubMed ID: 11278432
2000-09-15	Lin H , Wing SS, "Identification of rabbit reticulocyte E217K as a UBC7 homologue and functional characterization of its core domain loop", The Journal of biological chemistry, 275(37) PubMed ID: 10979987

2000-09-01	Lin H , Keriel A , Morales CR , Bedard N , Zhao Q , Hingamp P , Lefrançois S , Combaret L , Wing SS, "Divergent N-terminal sequences target an inducible testis deubiquitinating enzyme to distinct subcellular structures.", <i>Molecular and cellular biology</i> , 20(17) PubMed ID: 10938131
1999-10-08	Joazeiro CA , Wing SS , Huang H , Leverson JD , Hunter T , Liu YC, "The tyrosine kinase negative regulator c-Cbl as a RING-type, E2-dependent ubiquitin-protein ligase.", <i>Science (New York, N.Y.)</i> , 286(5438) PubMed ID: 10514377
1999-08-01	Rajapurohitam V , Morales CR , El-Alfy M , Lefrançois S , Bedard N , Wing SS, "Activation of a UBC4-dependent pathway of ubiquitin conjugation during postnatal development of the rat testis.", <i>Developmental biology</i> , 212(1) PubMed ID: 10419697
1999-05-21	Lin H , Wing SS, "Identification of rabbit reticulocyte E217K as a UBC7 homologue and functional characterization of its core domain loop.", <i>The Journal of biological chemistry</i> , 274(21) PubMed ID: 10329663
1998-08-14	Meerovitch K , Wing S , Goltzman D, "Proparathyroid hormone-related protein is associated with the chaperone protein BiP and undergoes proteasome-mediated degradation.", <i>The Journal of biological chemistry</i> , 273(33) PubMed ID: 9694854
1998-07-17	Oughtred R , Bédard N , Vrieling A , Wing SS, "Identification of amino acid residues in a class I ubiquitin-conjugating enzyme involved in determining specificity of conjugation of ubiquitin to proteins.", <i>The Journal of biological chemistry</i> , 273(29) PubMed ID: 9660812
1997-03-07	Meerovitch K , Wing S , Goltzman D, "Preproparathyroid hormone-related protein, a secreted peptide, is a substrate for the ubiquitin proteolytic system.", <i>The Journal of biological chemistry</i> , 272(10) PubMed ID: 9045703
1996-10-15	Wing SS , Bedard N, "Insulin-like growth factor I stimulates degradation of an mRNA transcript encoding the 14 kDa ubiquitin-conjugating enzyme.", <i>The Biochemical journal</i> , 319 (Pt 2) PubMed ID: 8912681
1996-08-01	Wing SS , Bédard N , Morales C , Hingamp P , Trasler J, "A novel rat homolog of the <i>Saccharomyces cerevisiae</i> ubiquitin-conjugating enzymes UBC4 and UBC5 with distinct biochemical features is induced during spermatogenesis.", <i>Molecular and cellular biology</i> , 16(8) PubMed ID: 8754804
1995-05-01	Wing SS , Haas AL , Goldberg AL, "Increase in ubiquitin-protein conjugates concomitant with the increase in proteolysis in rat skeletal muscle during starvation and atrophy denervation.", <i>The Biochemical journal</i> , 307 (Pt 3) PubMed ID: 7741691
1995-05-01	Medina R , Wing SS , Goldberg AL, "Increase in levels of polyubiquitin and proteasome mRNA in skeletal muscle during starvation and denervation atrophy.", <i>The Biochemical journal</i> , 307 (Pt 3) PubMed ID: 7741690

1995-01-01	Wing SS , Jain P, "Molecular cloning, expression and characterization of a ubiquitin conjugation enzyme (E2(17)kB) highly expressed in rat testis.", <i>The Biochemical journal</i> , 305 (Pt 1) PubMed ID: 7826319
1994-07-01	Wing SS , Banville D, "14-kDa ubiquitin-conjugating enzyme: structure of the rat gene and regulation upon fasting and by insulin.", <i>The American journal of physiology</i> , 267(1 Pt 1) PubMed ID: 8048511
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