CURRICULUM VITAE

***Name*:** **Barry Innis Posner, OC, CQ, MD, FRSC, FRCP(C), FACP.**

Address: ***Professional:***

McGill University,
Professor of Medicine and Cell Biology
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Date of Birth: November 7, 1937

Place of Birth: Winnipeg, Manitoba, Canada

Citizenship: Canadian/United States

EDUCATION

1954-1957	Pre-Med., University of Manitoba
1957-1961	Medicine I-IV, University of Manitoba

ACADEMIC DEGREES

1961	M.D., University of Manitoba

LICENSURE AND CERTIFICATION

1961	Licentiate of the Medical College of Canada
1968	Fellow, Royal College of Physicians of Canada
1973	Member, Quebec College of Physicians and Surgeons
1973	Member of the Federation of Medical Specialists of Quebec, Endocrinologist
1994	Fellow, American College of Physicians

POSTDOCTORAL TRAINING

1961-1962	Rotating Internship, Winnipeg General Hospital
1962-1963	Junior Assistant Residency, Winnipeg General Hospital
1963-1964	Special Student in Biology, Massachusetts Institute of Technology
1963-1965	Research Fellow in Metabolism, New England Medical Center Hospitals

1965-1967 Research Associate in Metabolism, New England Medical Center
1967-1968 Chief Resident in Medicine, New England Medical Center Hospitals
1968-1970 Research Associate in Biochemistry, National Institute of Health, Bethesda, MD

ACADEMIC APPOINTMENTS

University:
1965-1968 Instructor in Medicine, Tufts School of Medicine, Boston, MA
1970-1975 Assistant Professor, Department of Medicine, McGill University
1975-1978 Associate Professor, Department of Medicine, McGill University
1978- Director, Polypeptide Hormone Laboratory, McGill University
1979- Professor, Department of Medicine, McGill University
1981-1996 Director, Training Program in Endocrinology and Metabolism, McGill University
1981- Associate Member, Dept. of Physiology, McGill University.
1994- Associate Member, Dept. of Chemistry, McGill University.
1997- Professor, Department of Anatomy and Cell Biology, McGill Universitry

Hospital:
1970-1975 Assistant Physician, Royal Victoria Hospital, Montreal
1975-1978 Associate Physician, Royal Victoria Hospital, Montreal
1978- Senior Physician, Royal Victoria Hospital, Montreal
1980-1996 Director, Division of Endocrinology and Metabolism
1996-2002 Physician-in-Chief, Jewish General Hospital, Montreal.

HONORS AND AWARDS

1961 University of Manitoba Medical School, Gold Medalist
1968 2nd Prize, Young Investigators Competition, American College of Cardiology, San Francisco.
1971-1976 Medical Research Council Scholar
1976-1986 Chercheur Boursier du Québec
1977 Elected to the American Society of Clinical Investigation (ASCI).
1977 Invited Guest on the occasion of a visit by Her Majesty, The Queen "Tribute to young Canadians who have achieved Excellence in Arts and Science". Ottawa, Canada.
1979 Medical Data Sciences Lectureship, Joint Congress on Clinical Chemistry, Montreal
1981 Pfizer Travelling Lecturer, Clinical Research Institute, Montreal.
1986 Distinguished Visiting Scientist Lecture, Winnipeg Health Sciences Center, Winnipeg
1986 Plenary Lecturer at International Physiological Society Meeting, Vancouver, B.C.
1987 Elected to the American Association of Physicians (AAP).
1988 Third Annual Kroc Lectureship. Univ. of Washington Diabetes Centre.Seattle, WA.
1989 Charter Member, Canadian Institute of Academic Medicine.
1990 Distinguished Scientist Awardee of the Canadian Society of Clinical Investigation. Toronto, Ontario,
1991 Fellow of the Royal Society of Canada: Academy of Sciences.
1991 Banting and Best Memorial Lecture. International Diabetes Federation Meeting. Washington, D.C.
1991 Elected to the Peripatetic Club.

1993 Elliott Osserman Award of the International Cancer Research Foundation for Service in Support of Cancer Research.
1993 Pfizer Visiting Professor, Joslin Research Institute and Harvard University, Boston.
1994 Joe Doupe Memorial Lecture, University of Manitoba, Winnipeg.
1997 Novartis (Now Eli Lily) Lecturer of the Canadian Society of Endocrinology & Metabolism
1999 Officer of the Order of Canada.
2000 David M. Kovitz Visiting Professor. Faculty of Medicine, University of Calgary.
2002 Recipient of the Queen's Golden Jubilee Medal.
2003 2nd John K. & Mary E. Davidson Lectureship and Award. Univ. of Toronto.
2003 R.M.Bala Memorial Lecture, "Diabetes Mellitus & Insulin Signaling", Univ. of Saskatchewan
2006 Charter Member - Canadian Academy of Health Sciences
2008 Robert Volpe Distinguished Service Awardee – Canadian Society of Endocr. & Metab.
2012 Recipient of the Queen's Diamond Jubilee Medal.
2013 Distinguished Service Honoree, MUHC Division of Endocrinology, Annual Endocrine Gala
2014 Chevalier, Order of Quebec
2015 Lifetime Achievement Award, Canadian Diabetes Association

OFFICES HELD IN PROFESSIONAL CAPACITY

Professional Associations:

American College of Physicians
American Society of Clinical Investigation
American Federation of Clinical Research
American Diabetes Association
American Endocrine Society
American Society for Cell Biology
American Society of Biological Chemists
Association of American Physicians
Canadian Institute of Academic Medicine - Charter Member
Canadian Society of Clinical Investigation
Canadian Society of Endocrinology and Metabolism
Peripatetic Club
Royal College of Physicians
Royal Society of Canada: Academy of Sciences
Order of Canada
Canadian Academy of Health Sciences
Ordre National du Québec / Order of Quebec

McGill University:

1978 Animal Care Committee
1995 Hospital Merger: Clinical Departments Work Group
1995 Academic Priorities: Strategic Planning Group on Development of Clinical Faculty
1995-1997 Board of Directors, Montreal General Hospital Research Institute
2010 – … Executive Committee, Meakins Christie Laboratories

2014 Member Cyclical Review Committee for the Dept. of Surgery (Feb.2-4)
2016 Member of Cyclical Review Committee for the Lady Davis Research Institute

Selection Committees:
1979 Member, Chairman of Medicine
1984 Member, Director of the Montreal Neurological Institute
1980-1983 Member, Faculty of Medicine - Honorary Degrees Committee
1993-1994 Chair, Search Committee for Director of the Meakins-Christie Laboratories
1994 Member, Search Committee for Chairman, Dept. of Medicine, McGill University.
2004 Member, Search for Dean of Medicine, Advisory Committee to the Vice-Principal Academic.
2008 Chair, Search Committee for Director of the Meakins-Christie Laboratories

***Royal Victoria Hospital*:**
1976-1978 Radiation Safety Committee
1978-1981 Executive Committee of Physicians and Dentists
1979-1989 Laboratory Services Committee
1983-1990 Executive Committee, Department of Medicine
1987-1990 Vice-President for Research
1994-1996 Executive Committee, Department of Medicine

Royal Victoria Hospital Research Institute:
1981-1984 Board of Management
1986-1994 Research Committee
1986-1990 Executive Committee
1987-1990 Chairman, Research Committee

Sir Mortimer B. Davis Jewish General Hospital
1996-2002 Physician-in-Chief
1996-2002 Chair, Policy, Promotions & Executive Committees, Dept. of Medicine
1997-98 Member, Executive Committee to President of the Hospital Board
1996-2002 Member, Medical Advisory Committee
1997 Chair, Search and Selection Committees for Chiefs of Cardiology & Hematology
1997-2002 Member, Dean's Committee on MUHC-JGH Liaison
1998-1999 Chair, Search and Selection Committee for Chief of Dept. of Psychiatry
1998-2002 Member, Academic Advisory Committee
1999-2000 Member, Search and Selection Committee for Chief of Lady Davis Inst.for Research
1999-2000 Consultant and invited speaker, Clinical Task Force, Strategic Planning Committee
1999-2001 Member, Strategic Planning Steering Committee

National:
1976 Founding Member, Canadians for Health Research
1976-1978 Member of Executive, Canadians for Health Research
1976-1979 Member of Council, Canadian Society of Clinical Investigation
1977-1979 Member of Science Policy Committee, Canadian Society of Clinical Investigation
1978-1982 Member of Council, Canadian Society of Endocrinology and Metabolism
1979 Local Arrangements Chairman - Montreal Meeting, Can.Soc. of Clinical Investigation

1979-1981	Secretary of Science Policy Committee, Canadian Society of Clinical Investigation
1979-2000	Advisory Board (Canada), Juvenile Diabetes Research Foundation
1981	Program Chairman, Canadian Society of Endocrinology and Metabolism
1985	National Commission on Diabetes Mellitus in Canada: Report on Future Research Needs (co-author Dr. G. Hetenyi)
1990-1992	Juvenile Diabetes Foundation Representative, Canadian Diabetes Advisory Board (Advisory to Federal Government)
1993	MRC representative to Strategic Planning Subcommittee on collaboration between MRC and the Pharmaceutical Manufacturers' Association.
2005- …	Associate Director, Montreal Diabetes Research Center (Joint Enterprise with Univ.de Montreal)

International:

1985-1990	Medical Scientific Advisory Council, Juvenile Diabetes Federation (International)
1988-2004	Scientific Committee: International Symposia on Insulin Receptor and Insulin Action
1993-2004	Scientific Advisory Board, Israel Cancer Research Foundation
1994	Organizer. First International Symposium on Vanadium: Biochemistry, Physiology and Potential Use in Diabetes Therapy.
2002-2005	Member of Committee on Meetings and Membership, Endocrine Society of the U.S.

Peer Review and Consulting Activities:

1979-1981	Grant Review Committee on Metabolism, Medical Research Council
1980	Medical Science Review Board (Ad Hoc), Juvenile Diabetes Foundation (International)
1980	Fogarty Fellowships, National Institute of Health Committees
1981	Metabolism Study Section, National Institute of Health
1982-1985	Grants Review Committee, Canadian Diabetes Association
1982-1985	Medical Science Review Board, Juvenile Diabetes Foundation (International)
1984	Site visit: Salk Institute, National Institute of Health Committees
1985	Biochemical Endocrinology - Special Study Section, National Institute of Health
1985-1988	Endocrine Study Section, National Institute of Health
1986	NIH site visit: Mass. Gen. Hosp., (Protein Chem. Grp.)
1986	External Reviewer: Banting and Best Diabetes Center, University of Toronto
1990-1992	Scholarship Committee, Medical Research Council
1991	Review Committee of the National Research Council: Subcommittee for Protein Engineering Section of the Biotechnology Research Institute, Montreal
1990-1993	Grant Reviewer: Israel Cancer Research Foundation
1992	External Reviewer: Banting and Best Diabetes Center, University of Toronto
1995	Senior Scholarship Committee, Alberta Heritage Foundation for Medical Research.
1995 - 2003	Medical Advisory Board, Gairdner Foundation
2005	External Reviewer: Health Research Program at the University of Western Ontario.
2005 - 2008	Consultant to Eli Lily re Inhaled Insulin Program (Chicago Illinois).
2010	Consultant to Pharmascience re Canadian Patent on Rosiglitazone
2011	External Reviewer: Health Res.Prog. at the University of Western Ontario

Editorial Board Responsibilities:

1981-1984	Journal of Clinical Endocrinology and Metabolism, Reviewing Editor
1985-1988	Reviewing Editor, Diabetes

1989- …	Journal of Internal Medicine, Editorial Board
1991-date	Reviewing Editor, Journal of Laboratory and Clinical Medicine
1992-2000	Reviewing Editor, Endocrinology
2005-2010	Reviewing Editor, Endocrinology
2005-…	Reviewing Editor, Diabetes/Metabolism Research & Reviews
2008- 2013	Editorial Board, International Journal of Endocrinology
2012-…	Editorial Board, Journal of Glycemics

BOOKS EDITED

1985 Polypeptide Hormone Receptors, Volume 4, Bernhard Cinader Institute of Immunology, University of Toronto, Toronto Ontario. Publishers Marcel Dekker Inc., New York, N.Y., 10016

PATENTS HELD

- **VANADIUM PEROXIDE COMPOSITIONS AS INSULIN MIMICKERS**

COUNTRY	PATENT NUMBER	DATE GRANTED	STATUS
U.S.	5,069,913	Dec. 3, 1991	Lapsed
U.S.	4,882,171	Nov. 21, 1991	Lapsed
Canada	1,277,599	Dec. 11, 1990	Lapsed
Australia	602,927	Mar. 11, 1991	Lapsed
Europe	264,278	Dec. 18, 1991	Lapsed

- **USE OF PERVANADATE AS AN INHIBITOR OF PHOSPHOTYROSINE PHOSPHATASE**

COUNTRY	PATENT NUMBER	DATE GRANTED	STATUS
U.S.	5,155,031	Oct. 13, 1992	Lapsed
Canada	Filed 5/14/91	1996	Active

- **PEROXOVANADIUM COMPOUNDS AS PROTEIN TYROSINE PHOSPHATASE (PTP) INHIBITORS: THEIR INHIBITORY EFFECTS ON ANGIOGENESIS, RESTENOSIS AND THE PRODUCTION OF ENDOTHELINS, AND THEIR STIMULATING EFFECTS ON THE IMMUNE RESPONSE**

COUNTRY	PATENT NUMBER	DATE GRANTED	STATUS
U.S.	2,280,249	August 12, 1999	Active

- **MECHANISM FOR THE INACTIVATION OF INSULIN RECEPTOR AND USES IN THE TREATMENT OF TYPE II DIABETES**

COUNTRY	PATENT NUMBER	DATE GRANTED	STATUS
Canada	2,237,791	May 15, 1998	Active
U.S.	09/312,393	May 14, 2000	Active

SUMMARY OF GRANTS AWARDED

A. OPERATING FUNDS

		Dates	$ CDN.
1.	**a. Medical Research Council of Canada**		
i)	Insulin and insulin-like growth factors in growth.	1970-1990	1,516,024
	development and disease.	1990-1995	930,000
		1995-2000	897,784
	Insulin and growth factors in growth,	2000-2005	854,075
	development and disease.	2006-2011	680,000
ii)	Endosomal peptide hormone receptors: routing,	1991-1994	378,534
	regulation and function.	1994-1997	246,411
	(Co-investigator: Dr. J.J.M.Bergeron).	1997-2000	265,481
	Termination of Cell Signaling:Role of the Endosomal System.	2000-2003	322,830
iii)	Interaction of insulin and other peptide hormones with the central nervous sytem & cultured hepatocytes	1982-1985	100,068
	b. Canadian Institutes of Health Research.		
	Insulin and Growth factors in Health & Disease	2005-2010	652,775
	c. MRC-University Industry Program		
i)	The synthesis and assessment of peroxovanadium (Industry)	1991-1993	300,000
	compounds as insulin-like agents for the therapy of diabetes mellitus.		173,049 (MRC)
	(Co-investigators: Drs.A.Shaver, G.Fantus)		
ii)	The insulin receptor - associated phosphotyrosine phosphatase: key regulator of insulin action and therapeutic target for insulin mimetic drugs.	1996-1999	282,450 (Ind) 112,557 (MRC)
	(Co-investigator: Dr. Alan Shaver)		
	SubTotal (MRC-CIHR)		**7,712,041**
2.	**National Cancer Institute**		
	Expression of oncogenic potential.	1994-1999	588,720
	(Principal Investigator: Dr.J.J.M.Bergeron;	1999-2004	750,000
	Co-Investigator: Dr.B.I.Posner)		
3.	**Canadian Diabetes Association**		
i)	Studies on insulin receptor internalization and kinase function in diabetic rats.	1982-1989	295,320
ii)	The synthesis and assessment of peroxovanadium compounds as insulin-like agents for the therapy of diabetes mellitus.	1990	58,000
iii)	Insulin receptor kinase (IRK) substrates and signalling	2002-2004	134,982

molecules: a proteomic approach.

4. National Institute of Health

Regulation of intracellular peptide hormone receptors. (Co-investigator: Dr.J.J.M.Bergeron)	1978-1990	1,070,235

5. Juvenile Diabetes Foundation International

Basis of direct insulin action in the central nervous system.	1978-1985	165,584
Insulin action: relationship of internalization & receptor kinase activation.	1987-1988	40,000

6. Industry Support

i) Nordic Merrell Dow Research - The synthesis and assessment of peroxovanadium compounds as insulin-like agents for the therapy of Diabetes Mellitus.	1994	125,000
ii) Baxter - The range and mechanism of action of peroxide(s) of vanadate.	1988-1989	62,475
iii) Conjuchem Inc. – Activity in vitro and in vivo of insulin-HAS conjugate (CJC-1525)	2006	37,760
SUBTOTAL OPERATING FUNDS:		**$11,040,117**

B. EQUIPMENT GRANTS

Medical Research Council -	1981-1982	34,000
Miscellaneous laboratory equipment	1984-1985	133,000
	1989-1990	39,985
	1990-1991	30,464
	1992-1993	37,897
CIHR Multi-User Equipment Grant	2001	140,806
CIHR Multi-User Equipment Grant	2002	171,966
CIHR Mutli-User Equipment Grant	2005	225,056
Research Institute Royal Victoria Hospital	2000	35,595
Dr.Louis Johnson Foundation	2002	12,882
SUBTOTAL EQUIPMENT GRANTS:		**$ 861,651**

TOTAL OPERATING AND EQUIPMENT GRANTS:- $11,901,768

C. GROUP GRANTS

1. Genome Canada/Genome Quebec
Montreal Network for Pharmaco-proteomics and structural genomics.
Principal Investigators: John J.M.Bergeron et al. on Cell Map.
2001-2004 **$12,159,000**.
B. Posner (Co-investigator): 50,000$ / yr.

2. Canadian Institute of Health Research – Genomics Group Grant
Proteomics and Molecular Machines.
Principal Investigator: John J.M.Bergeron,
1999 – 2002. **$1,226,214**.
B. Posner (1 of 13 Co-investigators).

3. Canadian Foundation for Innovation
Montreal Diabetes Research Center: From Biology to Innovative Therapies.
Principal Investigator: Marc Prentki; Co-PI: Lawrence Rosenberg
2004 **$14,000,000**.
B. Posner (1 of 30 Co-investigators).

4. Genome Canada/Quebec
Genomic and Proteomic Approach to Type 2 Diabetes Mellitus.
Principal Investigator: Barry I. Posner; Co-PI: Marc Prentki
2004-2007 **$16,200,000**
B. Posner (1 of 9 investigators) - Posner Lab: 200,000/yr

D. PERSONAL SALARY AWARDS TO B.I. POSNER

Medical Research Council Scholar	1971-75	100,535.
Chercheur Boursier du Quebec	1976-86	329,295.
TOTAL PERSONAL SALARY AWARDS	**1971-86**	**429,830.**

BARRY POSNER – TRAINEES SUPERVISED
*** Degrees Granted for work in the Posner Lab**

TRAINEE	TYPE	PERIOD	DEGREE	YR	INSTITUTION	RESEARCH PROJECT	CURRENT POSITION
Z. Josefsberg	PDF	77-79	MD	62	Tel Aviv Univ	Intracellular receptors for prolactin & insulin	Prof. Pediatric Endo. Tel Aviv
M. Van Houten	PDF	79-82	PhD	77	Tufts Univ.	Peptide Horm. Recs. In the CNS	Clin. Neurologist, Los Angeles
A.Verma	PDF	79-81	PhD	76	Central Drug Res. Inst. India	Intracell. Recepts for prolactin & insulin(IRK)	Biochem/Mol. Biol. Mayo Clin. Rochester
M. Khan	PDF	79-81	PhD	75	Aligarh, India	Internalizn. of IRK	Dir., Immunoch. Medimmune, USA
D.M. Ruggere	PDF	80-82	MD	75	Univ. Mass	Insulin receptors on circulating red blood cells	Unknown
R. Kahn	PDF	81-83	PhD	81	Aligarh, India	Insulin receptors in clinical states	Scientist, Medimmune, USA
S. Savoie	PDF	82-85	PhD	81	Univ. Mtl.	Endosomal compartments	Unknown
M. Blanchard	PDF	'86	PhD	86	Univ. Of Montpellier	Role of Type II IGF rec in anabolic resp.	Unknown
M. Uchihashi	PDF	85-86	MD	85	Kobe Univ. Japan	Internalization of EGF Receptor Kinase	Physician Int. Med. Hyogo, Japan
S. Kadota	PDF	84-87	MD	76	Osaka Med. College	Insulin mimetic agents: Action on fat cells	Kyoto Univ. School of Medicine
I. Barash	PDF	86-88	PhD	86	Hebrew Univ. Jerusalem	Induction of PRL Recs in cultured hepatocytes	Volcani Centre, Inst. Of Animal Sci. Israel
N. Kenny	PDF	87-88	PhD	85	Univ. Hull England	Reg. of endosomal insulin receptor kinase	Unknown
J. Burgess	PDF	87-92	PhD	87	Univ. Manitoba	Regn/endosomal IRKs	PDF:Hrt. Res. Inst. Sydney, Australia
D. Lachance	PDF	90-92	PhD	91	Univ. Mtl.	Role of pV compounds in glucose homeostasis	Regulatory Affairs, Sandoz Canada
M. Xu	PDF	91-93	PhD	90	Univ. Wyoming	Cloning & function of PTPase(s)	Clin. Res. Assoc. Upjohn, Michigan
Z. Kachra*	GRAD.	87-93	PhD	93	Univ. McGill	Regulation of IGF-1 gene expression	Res. Assoc. St.Justine Hospital, Montreal, QC
A. Dorato*	GRAD.	85-93	PhD	93	Univ. McGill	Kinetics of PRL Rec. in different cellular comp.	Editor, J.Neuro Mol. Biol.
P. Bevan	PDF	91-95	PhD	91	Univ. London	Regln of Endosomal IRK	Investigator, Clin. Bioch Addenbrooke Hosp.
G. Zhang-Sun	PDF	91-95	PhD	90	Univ. Paris	Substrates for the IRK	Senior Scientist IBEX
Robert Faure	PDF	91-93	PhD	90	Montpellier	IRK-associated PTPs	Associate Professor, Laval
C-R. Yang	PDF	90-96	PhD	60	Shanghai Inst.	Cloning of mammalian PTPase(s)	Retired
JO Contreres	PDF	93-97	PhD	92	INSERM, Fr.	Signaling by the IRK in endosomes	Industry, France
P. Drake	PDF	94-98	PhD	93	Univ. London	insulin signaling in hepatic endosomes	Scientist at Novo Nordisk Copenhagen
Khosro Mohammad-Ali	PDF	94-98	PhD	94	Univ. Paris	Adenovirus modulated transfection of signalling molecules in vivo	MBA Univ. de Montreal
C. Mounier	PDF	96-02	PhD	96	ENSAR, Fr.	Insulin regulation of gene expression	Professor, Investigator UQAM
A. Balbis	PDF	97-2010	PhD	95	Univ. Buenos Aires	Insulin and EGF signaling	Self-Employed
C. Band*	PDF	93-2000	PhD	99	Univ. McGill	IGF-1 binding proteins	Industry
Q. Chu*	GRAD	93-98	MSc.	98	Univ. McGill	pVs as hypoglycemic agents in normal & diabetic rats	Industry

C. Li	GRAD	97-02	BM	92	Univ. Hunan	Identification of IRK-associated PTP(s)	Industry
H. Viladevall	Grad	97-00	BSc	97	McGill Univ.	Endos. Regulatn. of Insulin Degradation	Transferred to Medical School
M. Kong*	GRAD	98-02	PhD	02	McGill Univ.	Insulin and EGF signaling in primary rat hepatocytes	Independent Investigator City of Hope, UCLA
A. Parmar	PDF	02-07	PhD	02	Cambridge Univ.	Insulin Signaling: A proteomic approach	Institute of Microbiology, Munich, Germany
Ye Wang*	GRAD	03-07	MSc	08	McGill Univ.	Caveolae in insulin and EGF signaling	Associate, Lady Davis Institute, Jewish General Hosp. Montreal
Yanqing Xu*	GRAD	2007 - 2012	PhD	12	McGill Univ.	New role for EGF in modulating TOR action	Postdoctoral Position
Jinwen Song*	GRAD	2010-2012	MSc	12	McGill Univ.	EGF & Insulin on Akt Activation & Localization	PhD Student at the Lady Davis Institute

*Degree from Posner Lab

PUBLICATIONS (refereed, chapters, and proceedings)

1. Posner, B.I. and Fanburg, B.L. Rapidly labeled RNA from rat heart muscle. Circulation Res. 19: 805-815, 1966. [DOI: 10.1161/01.RES.19.4.805]

2. Posner, B.I. and M.S. Raben. Inhibition of the oxidation of leucine by hypoglycin. Biochem. Biophys. Acta 136: 179-181, 1967. [DOI: 10.1016/0304-4165(67)90341-8] [PMID: 6032042]

3. Posner, B.I., S. Sotman and H. Antoniades. The effect of Bound Insulin on the Disposition of Crystalline Insuline in Perfused Rat Heart. Vox Sanguinis 13: 37-40, 1967. [PMID: 6035815]

4. Fanburg, B.L. and B.I. Posner. RNA synthesis in experimental cardiac hypertrophy: I. Kinetics of labeling. Circulation Res. 23: 123-135, 1968. [DOI: 10.1161/01.RES.23.1.123]

5. Posner, B.I. and B.L. Fanburg, RNA synthesis in experimental cardiac hypertrophy: II. Aspects of regulation. Circulation Res. 23: 137-145, 1968. [DOI: 10.1161/01.RES.23.1.137]

6. Posner, B.I., S. Sotman and H. Antoniades. Insulin disposition in the isolated perfused rat heart: Effect of "bound" insulin. Diabetes 17: 427-436, 1968. [DOI: 10.2337/diab.17.7.427]

7. Fanburg, B.L. and B.I. Posner. Labeling of RNA in the perfused heart. The problem of bacterial contamination. Biochem. Biophys. Acta 182(2): 577-579, 1969. [DOI: 10.1016/0005-2787(69)90214-7]

8. Fanburg, B.L., B.I. Posner and S. Matsushita. Ribonucleic acid metabolism in experimental cardiac hypertrophy. In: Cardiac Hypertrophy. Ed. Alpert, Academic Press, New Y. (1971) pp. 273-281.

9. Posner, B.I. and M. Flavin, Jr. Cystathionine-γ-synthase: Studies of hydrogen exchange reactions. J. Biol. Chem. 247: 6402-6411, 1972. [PMID: 5076763]

10. Posner, B.I. and M. Flavin Jr. Cystathionine-γ-synthase: The nature of the intramolecular proton shifts in the elimination reaction. J.Biol. Chem. 247: 6412-6419, 1972. [PMID: 5076764]

11. Posner, B.I. Cystathionine-γ-synthase of salmonella: Studies of the replacement reaction. Biochem. Biophys. Acta 276: 277-283, 1972. [DOI: 10.1016/0005-2744(72)90030-7] [PMID: 5047707]

12. Posner, B.I., L. Mierzwinski and E.L. Fallen. Studies on amino acid levels and transport in the mechanically stressed rat heart. J. Molec. Cellular Cardiol. 5: 221-233, 1973. [DOI: 10.1016/0022-2828(73)90063-1] [PMID: 4269024]

13. Posner, B.I. Insulin Metabolizing Enzyme Activities in Human Placenta. Diabetes 22: 552-563, 1973. [DOI: 10.2337/diab.22.7.552]

14. Kelly, P.A., B.I.Posner, T.Tsushima, R.P.C.Shiu & H.G.Friesen. Tissue Distribution and Ontogeny of Growth Hormone and Prolactin Receptors. In NIH 74-62. P.567-584, 1973.

15. Posner, B.I. Insulin Receptors in Human and Animal Placental Tissue. Diabetes 23: 209-217, 1974. [DOI: 10.2337/diab.23.3.209]

16. Posner, B.I., P.A. Kelly, R.P.C. Shiu and H.G. Friesen. Studies of insulin, growth hormone and prolactin binding: Species variation and characterization. Endocrinology 95(2): 521-531, 1974. [DOI: 10.1210/endo-95-2-521] [PMID: 4369225]

17. Kelly, P.A., B.I. Posner, T. Tsushima and H.G. Friesen. Studies of insulin, growth hormone and prolactin binding: Ontogenesis, effects of sex and pregnancy. Endocrinology 95: 532-539, 1974. [DOI: 10.1210/endo-95-2-532] [PMID: 4369224]

18. Posner, B.I., P.A. Kelly and H.G. Friesen. Induction of a lactogenic receptor in rat liver: Influence of estrogen and the pituitary. Proc. Natl. Acad. Sci. (USA) 71: 2407-2410, 1974. [10.1210/endo-95-2-521] [PMID: 4366766]

19. Posner, B.I. Insulin - placental interaction. *In vivo*: Early diabetes in early life. Proceedings of Third International Symposium, eds. R.A. Camerini-Davalos and H.S. Cole. Academic Press, New York (1975) pp. 257-271.

20. Kelly, P.A., B.I. Posner and H.G. Friesen. Effects of hypophysectomy, ovariectomy and cycloheximide on specific binding sites for lactogenic hormones in rat liver. Endocrinology 97: 1408-1415, 1975. [DOI: 10.1210/endo-97-6-1408] [PMID: 173523]

21. Posner, B.I., P.A. Kelly and H.G. Friesen. Prolactin receptors in rat liver: Possible induction by prolactin. Science 189: 57-59, 1975. [DOI: 10.1126/science.163493] [PMID: 163493]

22. Posner, B.I. and H.J. Guyda. A human placental radioreceptor assay for insulin and insulin-like substance. *In vivo*: Hormones in human plasma, ed. H.N. Antoniades. Academic Press, New York, (1976) ch. 19, pp. 247-253.

23. Posner, B.I. Polypeptide Hormone Receptors: Characteristics and Applications. Can. J. Physiol. Pharmacol. 53: 689-703, 1975. [DOI: 10.1139/y75-097] [PMID: 172201]

24. Posner, B.I. Growth hormone and prolactin receptors: Characteristics and regulation. Proceedings of the V International Congress of Endocrinology, Hamburg. Excerpta Medica, Amsterdam, Oxford (1977) Vol. 2, pp. 178-185.

25. Posner, B.I. Characterization and modulation of growth hormone and prolactin binding in mouse liver. Endocrinology 98: 645-654, 1976. [DOI: 10.1210/endo-98-3-645]

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PROFESSIONAL INVITATIONS (outside McGill University)

1974

June Symposium on Puberty and Development, Tel-Aviv University. "The Ontogenesis and Regulation of Polypeptide Hormone Receptors."

Sept. Seminar, McMaster University, Hamilton, Ontario. "The Ontogenesis and Regulation of Polypeptide Hormone Receptors."

Dec. Third International Symposium on Early Diabetes, Funchal, Madeira. "Insulin-placental Interactions."
Lecturer. Connaught Medical Laboratories Ltd., Willowdale, Ontario. "Serum Growth Factors and Their Relation to Serum Insulin-like Activity."

1975

Jan. Symposium on Hormone Receptors sponsored by Canadian Society for Clinical Investigation, Winnipeg. "Characterization, Regulation and Application of Receptors for Growth Hormone and Prolactin."

May Symposium on the regulation of target cell receptors for peptide hormones sponsored by the American Society of Clinical Investigation. Atlantic City, New Jersey. "Regulation of Growth Hormone and Prolactin Receptors in vivo."
Visiting Professor. New York University Medical College, New York. "Insulin-like Activity and the Placenta."

Oct. Eighth Canadian Workshop on Diabetes Mellitus, Mont Gabriel. "Insulin, ILA and the Placenta."

1976

July Symposium on New Methods in Immunoassay and Saturation Analysis. Annual Meeting of the Canadian Society of Clinical Chemists, Ottawa. "Tissue Receptors in Saturation Analysis Procedures."
Symposium on Growth Hormone and Lactogens. 5th International Congress of Endocrinology, Hamburg, Germany. "Receptor Studies: New implications for biological activity."

Sept. Symposium on Hormonal Control of Fetal Development, Paris, France. "Insulin, ILA and the Placenta."

Nov. Seminar, Medical Sciences Building, University of Toronto. "Insulin Receptors: Characteristics and Regulation."

Seminar. Recent Advances in Neurosciences, Montreal Neurological Institute. "Hormone Receptors: Characteristics."

1977

Feb. Lecturer. Clinical Research Institute of Montreal. "Hormone Receptors."

Apr. Visiting Professor, Hôpital des Enfants Malades, Paris, France. "Purification and Characterization of Insulin-like Activity from Human Plasma."

Visiting Professor, Hôpital des Enfants Malades, Paris, France ".Characterization, Regulation and Localization of Polypeptide Hormone Receptors."

June Medical Grand Rounds, Vancouver General Hospital, Vancouver, B.C. "Ketoacidosis: Pathogenesis, diagnosis and treatment."

Seminar. Vancouver General Hospital, Vancouver, B.C. "Polypeptide Hormone Receptors: Characterization, regulation and localization."

Sept. Seminar Workshop on Somatomedins and Related Growth Factors. National Institutes of Health. "Partial Purification and Characterization of ILAs."

Oct. Seminar. Dept. of Biology, Concordia University. "Insulin-like Activity in Human Plasma."

Dec. Seminar, Laboratory of Molecular Endocrinology, Laval, Quebec. "Localization and Regulation of Polypeptide Hormone Receptors."

1978

Jan. Symposium, Annual Meeting of Royal College of Physicians and Surgeons, Vancouver "Polypeptide Hormone Receptors."

Feb. Lecturer, Clinical Research Institute of Montreal. "Polypeptide Hormone Receptors."

Mar. Lecturer, Recent Advances in Neuroendocrinology, Montreal. "Polypeptide Hormone Receptors."

July Seminar, Dept. of Medicine and Biological Sciences. University of Chicago, Chicago, Illinois. "Intracellular Polypeptide Hormone Receptors: Characteristics and Significance."

Nov. Seminar, Dept. of Biochem. Univ. of Montreal. "Intracellular Polypeptide Hormone Receptors: Characteristics and Significance."

Seminar, Dept. of Pharmacology, Univ. of Montreal. "Intracellular Polypeptide Hormone Receptors: Characteristics and Significance."

Symposium. 13th Brazilian Congress of Endocrinology, Brasilia, Brazil. "Intracellular Polypeptide Hormone Receptors: Characteristics and Significance."

1979

Feb. Peripatetic Club, Montreal. "Intracellular Polypeptide Hormone Receptors: Characteristics and Significance."

May International Symposium on Isotopic and Nonisotopic Ligand Assay. Toronto. "The Pituitary: Mode of Hormone Action."

June MDS lecturer to Joint Congress of Clinical Chemistry, Montreal. "The Insulin Receptor in Diabetes Mellitus."

Sept. 10th Congress of the International Diabetes Federation. Symposium, Vienna. "Intracellular Insulin and Insulin Receptors."

Seminar, Hôpital des Enfants Malades, Paris, France. "Intracellular Receptors and Internalization."

Seminar. Unité de Recherches sur le Contrôle Hormonal des Activit Cellulaires, INSERM-U. 162. Hôpital Debrousse, Lyon, France. "Intracellular Receptors and Internalization."

Oct. Presentation. National Conference on Diabetes Current Status and Future Directions. Reston, Virginia. "Intracellular Receptors and Internalization."

Nov. Workshop Lecture. Breast Cancer Task Force. Workshop on Polypeptide Hormone Receptors in Normal and Malignant Breast Tissue. Bethesda, MD., November 1979. "Internalization of Prolactin."

1980

Feb. Symposium Lecture. International Endocrine Society, Melbourne, Australia. "Prolactin Receptors: Location and Regulation."

Mar. Lecture. The Evaluation and Management of Obese Diabetics. Can. Diabetes Association Meeting, Calgary, Alberta. "The Insulin Receptor: Characteristics and Physiologic Role."

Apr. Seminar, Cornell University Medical School. "The Localization and Internalization of Receptors and Ligands."

Seminar. Mt. Sinai Medical School. "The Localization and Internalization of Receptors and Ligands.

Seminar, Dalhousie University, Halifax. "Polypeptide Hormone Receptors: Characteristics and Significance."

Aug. Lecturer, Laurentian Hormone Conference, Mont Tremblant. "Polypeptide Hormones: Intracellular Receptors and Internalization."

Sept. 1st International Symposium on Insulin Receptors, Rome. "Insulin: Intracellular Receptors and Internalization."

Oct.. Visiting Professor. Columbia University, Department of Medicine, New York. "Polypeptide Hormones: Intracellular Receptors and Internalization."

Nov. Symposium on Plasma and Cellular Modulatory Proteins, Center for Blood Research, Boston, Massachusetts. "Insulin-like Growth Factors: Structure and Function."

1981

Feb. Gordon Research Conference on Prolactin, Ventura, California. "Intracellular Prolactin Receptors: Origin and Regulation."

Mar. Banting and Best Diabetes Centre, University of Toronto. "Polypeptide Hormones: Intracellular Receptors and Internalization."

Apr.. Pfizer Traveling Lecturer. Clinical Research Institute, Montreal. "Intracellular Receptors and Internalization."

May Lecture, Advances in Endocrinology, American College of Physicians Endocrinology Course, Toronto. "Intracellular Receptors and Internalization."

June Serono Symposium on Endocrines and the liver. Intituto Superiore di Sanite. Rome. "Biochemical and Morphological Studies of Intracellular Receptors and Prolactin Internalization."

Seventh American Peptide Syposium, Madison, Wisconsin. "Studies on the Internalization of Peptide Hormones in Vivo."

Oct. Third International Meeting on Human Prolactin. Athens, Greece. "Prolactin Receptors: Characteristics, Localization, and Regulation."

Nov. Symposium on Modulation of Cellular Senescence by Medium Components, Gerontological Society of America, Toronto. "Insulin-like Growth Factors: Characterization and Function."

Dec. Lecturer, Foothills Hospital & Calgary General Hospital, Calgary, Alberta. "Diagnosis and Management of Insulinoma."

Seminar. University of Calgary, Calgary, Alberta. "Polypeptide Hormones: Intracellular receptors and internalization."

1982

Apr. Symposium American Federation of Biolog. Scientists, New Orleans. "Internalization of Polypeptide Hormones in Vivo: Intracellular Pathways."

Aug. Gordon Res. Conf. on Hormone Action, Kimball Union Academy. "Internalization of Polypeptide Hormones."

Seventh Annual Queen's University Symposium on Gene Expression. "Hormone Synthesis and Action."

Oct. Pediatric Travel Club, Montreal Children's Hospital. "Hormone Receptors and Action."

New York Diabetes Association, 10th Anniversary, New York University Medical Center. Mechanism and Significance of Insulin Internalization in Target Cells.

Nov. Symposium on Insulin Action, Eleventh Intern. Diabetes Federation, Nairobi, Kenya. "Mechanism and Significance of Peptide Hormone Internalization."

Symposium on Hormone Receptors in Growth and Reproduction, Bombay, India. "Mechanism of Internalization of Prolactin and Other Polypeptide Hormone Receptor Complexes."

Dec. Seminar, Dept. of Physiology and Biophysics, University of Illinois, Chicago. "Polypeptide Hormone Internalization: Mechanism and significance."

1983

Mar. Visiting Professor, Division of Endocrinology and Metabolism, Univ. of Colorado Health Sciences Center, Denver, March 13-15. "Pathways and Processing of Internalized Insulin.

Apr. Medical Grand Rounds. McMaster University, Depart. of Medicine, Hamilton, Ontario. "Insulinoma."

Seminar in Division of Endocrinology, McMaster University, Dept. of Medicine, Hamilton, Ont. "Mechanism of Hormone Action."

Seminar in the Department of Neurosciences, McMaster University Medical School, Hamilton, Ont. "Polypeptide Hormone Interactions with the CNS."

May Invited Lecture for Centennial of University of Manitoba Medical School, Winnipeg, Manitoba. "Polypeptide Hormone Receptors in Hormone Action."

June Symposium on Growth Hormone Receptors and Their Regulation, at the XIV Acta Endocrinologica Congress, Stockholm, Sweden. "Growth Hormone and Lactogen Receptors: Intracellular distribution and internalization."

1984

June Symposium on Comparison of Type I and Type II Diabetes: Similarities and Dissimilarities in Etiology, Pathogenesis and Complications, University of Toronto. "Endocytosis of Insulin and Other Peptide Hormones."

Symposium on Recent Progress in Molecular Mechanisms of Hormone Action in Health and Disease. Montreal. "The Endosomes of Rat Liver: Preparation and Characteristics."

July Chairman, Seventh International Congress of Endocrinology. Quebec City. "Symposium on Insulin-like Growth Factors."

Lecture Flying Physicians Association Inc. Montreal. "Pathogenesis and Treatment of Diabetic Ketoacidosis."

Sept. Lecture on the occasion of the 50th Anniversary of the Sir Mortimer B. David, Jewish General Hospital. "Diabetes Mellitus: The nature of the adult onset (Type 2) form."

Oct. Lecture at International Conference on Research and Therapeutic Issues in Diabetes. University of Virginia Diabetes Research and Training Center. "Mechanisms of Hormone and Receptor Internalization."

1985

Apr. Medical Student Workshop IV sponsored by Juvenile Diabetes Foundation. University of Pennsylvania, Philadelphia. "The Internalization of Insulin: Is it required for action?"

June Seminar. University of Massachusetts Medical School. Division of Endocrinology and Metabolism. Worcester, MA. "Insulin Internalization and Action: Are they related?"

Aug. Lecture to 39th International Congress of Esthetics and Cosmetology. Montreal. "Endocrine Influences on Beauty."

Seminar. The University of Vermont. Department of Medicine. Burlington, Vermont. "The Internalization of Insulin and its Receptor: Is this Related to Hormone Action?"

Sept. Workshop on Physiology and Pathophysiology of the Insulin Receptor: An Overview in 1985. 12th International Diabetes Federation Congress, Madrid, Spain. "Internalization of Insulin-receptor Complexes and Receptor Activation."

Oct. Workshop on Molecular and Cellular Aspects of Reproduction. National Institutes of Health. Bethesda, MD. "Intracellular Trafficking of Proteins."

Nov. Symposium. Research Frontiers of Diabetes Mellitus: A Symposium for Canadian Medical Students. University of Toronto. (Hart House). "Turning on the Cell."

1986

Feb. Distinguished Visiting Scientist Lecture. University of Manitoba Medical School. "Insulin Action: Role of Internalization."

Grand Rounds. Winnipeg Health Sciences Center, Winnipeg, Manitoba."Metabolic Abnormalities in Diabetes Mellitus."

Mar. Seminar. George Washington University Medical School, Washington, D.C. "Insulin Action: Role of Internalization."

Lecture. Scottish Nutrition Society, University of Glasgow, Glasgow, Scotland."Insulin Receptors in the Central Nervous System."

May Grand Rounds. Ottawa General Hospital. Diabetic "Ketoacidosis."

Seminar. University of Ottawa. "Mechanism of Insulin Action."

Seminar. Sandoz Pharmaceutical Group. Montreal (Dorval Hilton). "Mechanism of Hormone Action."

July Plenary Lecture. International Union of Physiological Sciences Meeting. Vanc, B.C. "Endocytosis: Mechanism and significance."

Oct. Symposium. Canadian Diabetes Association Workshop for Medical Students. Univ. of Alberta, Edmonton. "Mechanism of Insulin Action."

Nov. Third International Symposium on Insulin Receptors. Madrid, Spain. "Studies on the Internalization of Insulin Receptor Kinase."

Visiting Professor. University of Western Ontario and St. Joseph's Hospital, London, Ontario. "Cellular Physiology of Insulin Action."

Grand Rounds. University of Western Ontario and St. Joseph's Hospital, London, Ontario. "Fasting Hypoglycemia: Assessment and management."

Grand Rounds. University of Western Ontario and Victoria Hospital, London, Ontario. "Type 2 Diabetes Mellitus: Pathogenesis and treatment."

Grand Rounds. University of Western Ontario and the University Hospital, London, Ontario, "Nutritional and Hormonal Basis of Type II Diabetes."

Dec . Guest Lecture. First Annual General Scientific Meeting of the Julia McFarlane Diabetes Research Unit. Calgary. "Perspectives in Diabetes Research."

1987

Jan. Symposium. Functional Aspects of Insulin and Insulin-related Peptides: Implications for the central nervous system. University of Florida, Gainesville. "Internalization of Receptors: Role in Insulin Action."

Feb. Seminar. Rockefeller University - Sloane-Kettering, New York. "Internalization of Insulin: Mechanism and Significance."

Mar. Symposium on Insulin Action and Diabetes. Julia McFarlane Diabetes Research Unit, University of Calgary. "Internalization of Insulin Receptors: Mechanism and Significance."

May Grand Rounds. New York University Medical School and V.A. Hospital. "Diabetes Mellitus and Insulin Action: A Perspective."

Sept. Seminar. California Biotechnology Inc. Mountain View, CA. "Peroxide(s) of Vanadate: Potent Mimickers of Insulin Action."

Oct. Bat-Sheva Seminar on Molecular Approaches to Hormone Action. Weizmann Institute. Israel. " The Insulin Receptor: Internalization and Activation."

1988

Feb. Seminar. Department of Biology, State University of Buffalo (SUNY). "Insulin Action: A Possible Role for Intracellular Receptors."

Mar. Seminar. Department of Physiology and Biophysics, University of Iowa. "The Internalization of Insulin Receptor Complexes: Role in Transmembrane Signalling and Hormone Action."

Apr. The Third Annual Kroc Lectureship. University of Washington Diabetes Center. Seattle, WA. "Insulin and Growth Factor Action: Role of intracellular signalling."

June Symposium on Insulin and Obesity. The University of Buckingham, England. ".Insulin Action: A novel and potent insulin mimetic agent."

Aug. Symposium on Peptide Hormones, Growth Factors and Internalization. Fourth International Congress of Cell Biology. Montreal. "Insulin Receptor Internalization and Kinase Activation: A role in hormone action."

Oct. Symposium on The Action of Insulin and Related Growth Factors in Diabetes Mellitus. Joslin Diabetes Center and Harvard Medical School (Celebration of Joslin's 90th Anniversary) "Internalization of Insulin and EGF Receptors: A Possible Role in Transmembrane Signalling"

1989

Jan. Symposium on the Molecular and Cellular Aspects of Insulin, IGFs and Their Receptors: Implications for the CNS. University of Florida at Gainesville ".Insulin and Growth Factor Action: Relation of Internalization to Receptor Kinase Activation."

May Endocrine Grand Rounds, Massachusetts General Hospital. "Receptor Kinases: Is there a role for activation and internalization in hormone action."

June Peter J. Laurie Memorial Lecture, Juvenile Diabetes Foundation Canada. Toronto, Ontario. "Insulin Action: New approaches for understanding and treating diabetes."

July Seminar. Marion Laboratories, Kansas City, Kansas. "Peroxovanadium Compounds as Insulin-like Agents for the Therapy of Diabetes Mellitus."

Sept. Mini-Symposium - Neonatal Biology Group. Hotel l'Esterel, Montreal, Quebec. "The Internalization and Activation of Receptor Kinases: A possible role in hormone and growth factor action."

Oct. Seminar. Sandoz Pharmaceuticals, East Hanover, New Jersey. "Peroxovanadium Compounds as Insulin-like Agents for the Therapy of Diabetes Mellitus."

1990

Mar. Seminar. Joslin Diabetes Centre, Boston, Massachusetts. Tyrosine Receptor Kinases: Activation and internalization.

Immunology of Diabetes and Lessons (10th International Workshop) and Lessons from Animal Diabetes (Third International Workshop). Jerusalem, Israel. "Receptor Kinase Activation and Internalization."

July Symposium - Pathophysiology and Treatment of Diabetes Mellitus. Montpellier, France. "Peroxovanadium Compounds as Insulin - Mimetic Agents."

Sept. Distinguished Scientist Award Lecture of the Canadian Society of Clinical Investigation. Toronto, Ontario. "Insulin and Other Receptor Kinases: Regulation and function."

1991

Jan. Pfizer Lecturer at the Institut de Recherches Cliniques de Montreal. "Receptor Kinases: Regulation and function."

May Distinguished Visiting Professor, University of Manitoba Medical School."The Insulin Receptor: Key to Insulin Action."

Lecture - Ninth Annual Meeting Syndicat Professionnel des Médecins Endocrinologues du Québec, Montebello, Quebec."Insulin Receptor Function: Regulation and Therapeutic Implications."

June Third Banting and Best Memorial Lecture at the 14th International Diabetes Federation. Washington, D.C. "Regulation of Insulin Function: Mechanisms and Therapeutic Implications."

Nov. Lecture - Czechoslovakian Association of Diabetes. Prague, Czechoslovakia. ."Type 2 Diabetes Mellitus."

Lecture - Third Department of Internal Medicine, Charles University. Prague, Czechoslovakia. "The Mechanism of Peptide Hormone Action."

Lecture - Czechoslovak Institute of Endocrinology.Charles University, Prague, Czechoslovakia. "The Mechanism of Insulin Receptor Regulation: New Approaches to the Treatment of Diabetes Mellitus."

1992

Mar. Lecture. Peripatetic Club. Clinical Research Institute of Montreal. "The Peroxovanadium Compounds: New Insulin Mimetic Agents."

May Symposium - American Society for Cell Biology-Summer Conference. Airlie, Virginia. "Hormone Receptor Internalization: Roles in Regulating Hormone Action."

Lecture at Hypertension Colloquium. Victoria, B.C. "Insulin Resistance and High Blood Pressure."

June Lecture - Nordic-Merrell Dow Research Symposium. Montreal. "New Approaches to the Treatment of Diabetes Mellitus."

Nov. Lecture - Foundation Board of the Faculty of Medicine. McGill University. "Insulin Action: New Approaches to the Treatment of Diabetes Mellitus."

Dec. Lecture. Göteborg University, Göteborg, Sweden. "Insulin Action: Mechanisms and Therapeutic Implications."

1993

May Chairman and Speaker - Symposium on Cell Signalling. American Association of Physicians. "Peroxovanadium Compounds: A New Class of Potent Phosphotyrosine Phosphatase Inhibitors Which are Insulin Mimetics."

Lecture and Presentation (with Dr. A.Shaver). Marion-Merrell Dow Research Laboratories. Cincinnati, Ohio. "Peroxovanadium Compounds: A New Class of Potent Phosphotyrosine Phosphatase Inhibitors which are Insulin Mimetics."

July Lecture. Hôpital Necker, Enfants Malades, Paris. "The Production of IGF-I and IGF-BP by Adult Rat Liver: Regulatory Mechanisms."

Lecture. Hôpital Necker, Enfants Malades, Paris. "Insulin Receptor Function: Regulation and Therapeutic Implications."

Nov. Pfizer Visiting Professor, Harvard Medical School. Endocrine Grand Rounds. Brigham and Women's Hospital. Harvard Medical School. "Regulation of Insulin Receptor Function: Therapeutic Implications."

Longwood Area Diabetes/Metabolism Seminar. Joslin Diabetes Center. "Internalization of Receptor Tyrosine Kinases: A Role in Transmembrane Signalling."

Endocrine Grand Rounds. Beth Israel Hospital. "The Peroxovanadium Compounds: A New Class of Insulin - Like Hypoglycemic Agents."

1994

Mar. Visiting Professor. Conjoint Training Program in Endocrinology and Metabolism. Medical Grand Rounds. Ottawa Civic Hospital. "Insulin Resistance and action: New Developments and Therapeutic Implications."

Visiting Professor. Special Research Seminar. Univ. of Ottawa. "The Role of the Internalization of Receptor Tyrosine Kinases in the Regulation of Hormone Action."

Visiting Professor. Conjoint Training Program in Endocrinology and Metabolism. Medical Grand Rounds. Queen's University, Kingston. "Insulin Resistance and Action: New Developments and Therapeutic Implications."

Special Research Seminar. Queen's University, Kingston. "The Role of the Internalization of Receptor Tyrosine Kinases in the Regulation of Hormone Action."

Aug. Joe Doupe Memorial Lecture. University of Manitoba Medical School. "Diabetes and Insulin: Old and New Observations."

Oct. Seminar. University of Iowa Medical School. "The Insulin Receptor Kinase: Regulation and Therapeutic Target".

Nov. Seminar with Dr. A. Shaver. Concordia University, Dept. of Chemistry. “The Insulin Mimetic Properties of Peroxovanadium Complexes”.

1995

Feb. Seminar. Metabolex Corporation; San Francisco. "The Peroxovanadium Compounds: Mechanism of Action and Therapeutic Application".

Distinguished Lectureship. Lady Davis Research Institute, Montreal. "The Mechanism of Cell Signalling by the Receptor Tyrosine Kinases".

Mar. Lecture. Novo Nordisk Pharmaceutical Company, Copenhagen, Denmark. "The Insulin Receptor Kinase: Regulation and Therapeutic Implications".

Lecture. Σigma Σi Society. McGill University, Montreal. "The Peroxovanadium Compounds: Possible Insulin Replacements".

May Grand Rounds. University of Sherbrooke Hospital Center. Sherbrooke, Quebec. "The Insulin Receptor Kinase: Regulation and Therapeutic Implications".

Research Seminar. Program in Cell Biology. University of Sherbrooke Medical School. "The Receptor Tyrosine Kinases: Role of Internalization in Cell Signalling".

June Symposium Lecture. Endocrine Society. Washington, D.C. "The Role of Compartmentalization in the Regulation of Cell Signalling".

Oct. Seminar. Roche Pharmaceutical Company, Nutley, New Jersey. "The Insulin Receptor Kinase: Regulation of Function and Therapeutic Significance".

Symposium Lecture. Société Québécoise de Biochimie Clinique. Hotel Chantecler, Ste. Adele, Québec. "The Biochemical and Physiologic Mechanisms Underlying Insulin Resistance".

Seminar. Dartmouth College, Chemistry Dept. Hanover, New Hampshire. "The Insulin Mimetic Properties of Peroxovanadium Complexes".

1996

Feb. Lecture. Cedars-Sinai Medical Center, Los Angeles, CA. "The Insulin Receptor Kinase: Regulation of Therapeutic Modulation".

Mar. Lecture. 35th Medical Class Reunion, Tucson, AZ. "Diabetes Mellitus: Past and Future Perspectives".

May Symposium. VIth International Symposium on Insulin Receptors and Insulin Action: Molecular and Clinical Aspects. Copenhagen, Denmark. "Regulation of Insulin Receptor Kinase Function: Therapeutic Implications".

Seminar. Frontiers of Modern Endocrinology Research Seminar Series. Jefferson Medical College, Philadelphia, Pennsylvania. "Compartmentalized Signal Transduction by Receptor Tyrosine Kinases".

Sept. Seminar. Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, Ontario. "Mechanism of action of vanadate and pervanadate to increase glucose transport in muscle cells".

Oct. Symposium. 75th Anniversary Celebrating the Discovery of Insulin: An International Research Symposium on Diabetes Focusing on Beta-Cell Function and Insulin Action. Toronto, Ontario. "Insulin Action (Molecular Signaling and Down Stream Effects)".

1997

Jan. Seminar. Signal Transduction Laboratories, University of Alberta, Edmonton, Alberta. "The Regulation of Insulin Receptor Function: Role of Compartmentalization in Mediating Signal Transduction".

Mar. Seminar. Université de Montréal. "The Insulin Mimetic Properties of Peroxovanadium compounds".

July Lecture. Dept. of Medicine, University of Barcelona, Spain. "Insulin Receptor Function – Mechanisms of Regulation and Therapeutic Implications."

Sept. Inaugural Lecture: Diabetes Research and Treatment Centre. St. Boniface Hospital Research Centre, University of Manitoba Medical School. "Insulin Receptor Function – Mechanisms of Regulation and Therapeutic Implications."

Sept. Novartis Lecture – Royal College of Physicians and Surgeons of Canada & CSCI. Vancouver, B.C. "Insulin Receptor Function – Mechanisms of Regulation and Therapeutic Implications."

Oct. Symposium Lecture. Canadian Diabetes Association Professional Conference, London, Ont. "Peptide Hormone Cell Signaling: Inside is as good as outside".

Symposium Speaker. 34th Annual André Aisenstadt Clinical Day. The Sir Mortimer B. Davis – Jewish General Hospital, Montreal, Quebec. "Recent Advances in our Understanding of Diabetes Mellitus"

Nov. Symposium Lecture. Fifth Chemical Congress of North America. Cancun, Mexico. Symposium on Chemistry, Biochemistry and Therapeutic Applications of Vanadium Compounds. "Mechanism of Action of Peroxovanadium Compounds".

1998

Feb. Lecture. Annual Meeting of the Canadian Institute of Academic Medicine. Toronto, On. "The Future of the Clinical Scientist in Canada".

March Lecture. UCLA Medical School – Signal Transudction Affinity Group, Los Angeles, California. "Regulation of the Insulin Receptor Kinase: Mechanisms and Therapeutic Implications".

May Presentation. VII International Symposium on Insulin Receptors & Insulin Action: Molecular and Clinical Aspects. Jerusalem, Israel. "Regulation of the Insulin Receptor Kinase: The Role of Endosomal Processes."

Sept. Symposium Lecture. Canadian Society for Clinical Investigation. Toronto, Ontario. "Academic Medicine: An Exciting Career Choice"

Oct. Symposium Speaker. Annual Symposium of the Diabetes-Endocrinology Center of Western New York. "Insulin Action and the Mechanism of Insulin Resistance"

Nov. Presentation to the Standing Committee on Finance, Pre-Budget Health Consultations, Montreal, Quebec. "Exodus of Talent – poor funding of medical research".

Nov. Seminar. Abbott Laboratories, Illinois. "The Regulation of IRK Activity: Role of the Endosomal System""

Dec. Grand Rounds. Centre de Recherche du Centre Hospitalier Universitaire Laval, St. Foy, Quebec. "The Pathogenesis of Non Insulin Dependant Diabetes Mellitus (IDDM): The Role of Insulin Resistance"

Seminar. Centre de Recherche du Centre Hospitalier Universitaire Laval, St. Foy, Quebec. "The Insulin Receptor Kinase: Regulation and Function"

Lecture. Lady Davis Institute for Medical Research; Jewish General Hospital, Montreal, Quebec. "Insulin Receptor Kinase: The Regulation and Function".

1999

Jan. Grand Rounds. McGill University Health Center Combined Endocrine Rounds, Montreal, Quebec. "Insulin Action and Insulin Resistance".

March Seminar. International Business Communications 3rd International Symposium on Insulin Resistance. Washington, DC. "Regulation of Insulin Receptor Kinase: Key Role of Associate Phosphotyrosine Phosphatase".

May Seminar. McGill Cancer Research Group. Montreal, Quebec. "The Role of Phosphotyrosine Phosphatases in Cell Signaling: Lessons from the Study of Insulin Signaling".

June Symposium. International Conference on Diabetes and Cardiovascular Disease. Winnipeg, Manitoba. "The Mechanisms of Insulin Action".

2000

March Lecture. Physiology Department, McGill University. "The Insulin Receptor Kinase: Regulation of Function".

March Seminar. Montreal Children's Hospital Reseach Institute Seminar series. "Regulation of the Insulin Receptor Kinase: Mechanisms and Therapeutic Implications."

April Lecture. "Non-Insulin Dependent Diabetes Mellitus: Something Old and Something New". 2000 David M. Kovitz Visiting Professor. Faculty of Medicine, University of Calgary.

June Chair of Symposium "Phosphatases in Signaling Pathways" Endocrine Society 82nd Annual Meeting, June 21-24, 2000. Toronto, Ontario.

Sept. Seminar - "Regulation of the Insulin Receptor Kinase: Therapeutic Implications". Signal Transduction Group, Novo-Nordisk Pharmaceutical Company, Sept. 11, 2000. Bagsvaerd, Denmark.
Seminar - "Characterization of the IRK-associated PTP(s)". Signal Transduction Group, Novo-Nordisk Pharmaceutical Company, Sept. 11, 2000. Bagsvaerd, Denmark.

Speaker. "The Peroxovanadium Compounds: Mechanism of Action and Significance for Understanding Insulin Action". Symposium:The Insulinomimetic Effects of Metals Ions: Potential Therapy for Diabetes Mellitus. Sept. 14-16, 2000 Sitges, Spain.

Seminar "The Insulin Receptor Kinase: Regulation and Therapeutic Implications". Department of Physiology, University of Toronto, Sept. 27, 2000.

Oct. Seminar "The Insulin Receptor Kinase: Regulation and Therapeutic Implications". Faculty of Medicine, University of Montreal. October 5, 2000. Montreal.

Speaker "Tyrosine Phosphorylation, an Ever More Complicated Story" Canadian Diabetes Association Annual Meeting. October 11-14, 2000. Halifax, Nova Scotia.

2002

Jan. Speaker "NIDDM: A Proteomic Approach to Pathogenesis". Caprion Pharmaceutical Corp. January 11, 2002. St. Laurent, Quebec.

Mar. Speaker "Thinking about Sugar" Medical Grand Rounds. McGill University Health Center, Royal Victoria Hospital. March 27, 2002. Montreal, Quebec.

Apr. Speaker "Insulin action: The key roles of insulin receptor kinase (IRK) activation and internalisation in effecting signalling." Canadian Working Group on Insulin Resistance. Fairmount Chateau Lake Louise, April 25-28, 2002. Lake Louise, Alberta.

May Speaker "Cell Signalling: The Inside Story." Signal Transduction Research Group Annual Retreat. May 8-10, 2002. University of Alberta.

Oct. 2nd John K. & Mary E. Davidson Lectureship and Award. "Insulin Signalling: The Inside Story". October 15 & 16, University of Toronto, Toronto, ON.

Nov. Moderator, J. Allyn Taylor International Prize in Medicine Symposium. Nov. 5-6, 2002. Robarts Research Institute, London, Ontario.

2003

June Lecture, CFBS Annual Meeting "Diabetes and Atherosclerosis", June 11-15, 2003. Ottawa, Ontario.

Nov. R.M. Bala Memorial Lecture, "Diabetes Mellitus and Insulin Signaling", Nov. 12, 2003, Univ. of Saskatchewan, Saskatoon, SK.

2004

Aug. Symposium Chair and Speaker, "Cellular Signaling in Time and Space." 12th International Conference on 2nd Messengers & Phosphoproteins, August 4, 2004, Montreal, QC.

2006

Oct. Lecture, "Internalization of Insulin and EGF receptor tyrosine kinases: Comparative Studies" Dept. of Cell Biology, Univ. of Alberta, Edmonton Alberta.

2007

Mar. Lecture, "Role of the Endosomal System in Peptide Hormone/Growth Factor Signaling". Dept. of Biology, Univ.of Quebec in Montreal

2009

Jan. Lecture, "Cell Signaling and Trafficking: An Intimate Relationship". Annual Meeting of the Montreal Diabetes Research Center. Centre Mont Royal, Montreal, Quebec.

Oct. Symposium Chair, "Novel Therapies for Glucose Lowering" at the 20th World Congress of the International Diabetes Federation. October 18-22, Montreal, QC.

2011

Jan. Lecture - "EGF Signaling: Role of Acidification in TOR Activation" at the Meakins Christie Laboratories, Montreal, QC

Oct. Lecture - "Current Views on the Diagnosis and Treatment of Type 2 Diabetes Mellitus" at The Tenth People's Hospital of Tongji University (October 24), Shanghai, China.
Endocr.Rounds -Obesity & Diabetes Mellitus, Affiliated Hospital, Guiyang Med.College.
Lectures - "Current Views on the Diagnosis and Treatment of Type 2 Diabetes Mellitus" and "Mechanism of Hormone Action", Affiliated Hospital of Guiyang Medical College (October 26), Guiyang, China.

2015

Dec.2 Lecture – "Insulin Signaling: The Inside Story" at the Word Diabetes Congress (International Diabetes Federation & Canadian Diabetes Association) Vancouver, B.C.,