

CURRICULUM VITAE

A. Name: Daniel Joshua Drucker

B. CV revised September 13 2022

C. Biographical Information

Date of Birth: June 26 1956

Place of Birth: Montreal, Quebec

Education: 1974-1976 Undergraduate Science, University of Ottawa
1980 M.D. University of Toronto, Ontario

Address: Lunenfeld-Tanenbaum Research Institute, Mount Sinai Hospital, 600 University Ave Mailbox39
Toronto, Ontario M5G 1X5

Citation metrics <http://scholar.google.ca/citations?user=xmFOoRYAAAAAJ&hl=en>

Postdoctoral Training

Internships and Residencies:

1980-1981 Intern in Medicine, Johns Hopkins Hospital, Baltimore
1981-1982 Resident in Medicine, Toronto General Hospital,
1982-1983 Fellow in Endocrinology, Toronto General Hospital
1983-1984 Chief Medical Resident, Toronto General Hospital

Research Fellowships:

1984-1987 Centennial Fellow, Medical Research Council of Canada
1984-1987 Research Fellow in Medicine, Massachusetts General Hospital, Harvard University, Boston

Licensure and Specialty Certification

1980 LMCC examinations
1980 National Board of Medical Examiners Licensing examination
1984 Fellow of the Royal College of Physicians and Surgeons of Canada (FRCPC)
1984 Diplomate of the American Board of Internal Medicine
1981 Ontario College of Physicians General License

Hospital Appointments

1980-1981 Fellow in Medicine, Johns Hopkins Hospital
1984-1987 Research Fellow in Medicine, Massachusetts General Hospital
1987-21 Staff Physician, Toronto General Hospital
1991-92 Deputy Director, Mount Sinai/Toronto Hospital Division of Endocrinology
1991- Cross Appointment Mount Sinai Hospital Associate Staff
2006- Senior Scientist, Lunenfeld-Tanenbaum Research Institute, Mt. Sinai Hospital

Awards & Honors

1975-1976 University of Ottawa Faculty Merit Scholarship
 1976-1977 Walter F Watkins Scholarship Bradshaw Errington Bursary
 1977-1979 Crocker Foundation Bursary, Walter F Watkins Scholarship
 1979 Elected to membership, Alpha Omega Alpha Medical Society
 1980 Dr. Mitchell F. Kohan Scholarship for special excellence in Internal Medicine, University of Toronto
 1980 Irving Heward Cameron Gold Medal in Surgery, University of Toronto
 1981-1982 Second Prize, Toronto General Hospital Research Competition
 1983-1984 First Prize, Toronto General Hospital Research Competition
 1984 Student Award for Research, Canadian Society for Clinical Investigation
 1984-1987 Centennial Fellow, Medical Research Council of Canada
 1986 American Federation for Clinical Research-Outstanding Trainee Award
 1987- 89 Research Scholar of the Medical Research Council of Canada
 1989-94 Ontario Ministry of Health Career Scientist Award
 1989 Elected Fellow of the American College of Physicians
 1989-94 Appointed Reuben and Helen Dennis Research Scholar in Diabetes Research, Toronto General Hospital
 1990 University of Toronto Department of Medicine Research Award
 1993 Alan Bruce Robertson Young Investigator Award of the Clinical Research Society of Toronto
 1993 Richard E. Weitzman Award of the Endocrine Society for Scientific Achievement by a young investigator
 1994-99 MRC Scientist Award
 1995 Elected Member, American Society for Clinical Investigation
 1996 Canadian Diabetes Association Outstanding Young Scientist Award
 1996 William Goldie Prize for academic contributions to Internal Medicine, University of Toronto
 1998 Viktor Mutt Award from the International Society for Study of Regulatory Peptides
 1999-2004 MRC Senior Scientist Award
 2002 Canadian Society for Clinical Investigation Distinguished Scientist Award
 2004 Bristol Myers Squibb Freedom to Discover Award for Metabolic Research
 2004 Canada Research Chair in Regulatory Peptides
 2005 University Health Network Inventor of the Year Award
 2006 Elected to membership in the Association of American Physicians (AAP)
 2008 Prix Galien Canada award for outstanding pharmaceutical research
 2009 The Endocrine Society Clinical Investigator Laureate Award
 2010 Banting and Best Diabetes Centre-Novo Nordisk Chair in Incretin Biology
 2012 The Claude Bernard Medal & Lecture, European Association for the Study of Diabetes
 2012 CIHR CMAJ Top Achievements in Health Research Award
 2012 Elected Fellow of the Royal Society of Canada
 2012 Lloyd S.D. Fogler Award for research excellence, Mt. Sinai Hospital
 2013 Oon International Award for Preventive Medicine, Cambridge University School of Medicine, United Kingdom
 2014 Banting Medal for Scientific Achievement, American Diabetes Association
 2014 Manpei Suzuki International Prize for Diabetes Research, Manpei Suzuki Foundation, Tokyo, Japan
 2015 Rachmiel Levine Award for Scientific Achievement in Diabetes Research, City of Hope, California
 2015 Institute of Medical Sciences Graduate Course Lecturer Award, University of Toronto
 2015 Elected Fellow of the Royal Society of London, UK
 2015 Appointed Officer of the Order of Canada
 2017 Rolf Luft Award in Endocrinology and Diabetes Research, Karolinska Institute
 2017 The Harrington Prize for Innovation in Medicine, ASCI and the Harrington Institute
 2018 The Canadian Organization for Rare Disorders Scientific Leadership Award
 2018 The Manning Foundation Principal Innovation Award
 2019 The Harrison Medal, Australian Endocrine Society
 2019 The Harold Hamm International Prize for Diabetes Research
 2019 The Novo Nordisk Foundation EASD Prize for Excellence in Diabetes Research
 2019 The Helmholtz Diabetes Centre Lifetime Achievement Award
 2020 The Endocrine Society John Baxter Award for Entrepreneurship
 2020 The Transatlantic Medal of the British Endocrine Society

2020 The Warren Alpert Foundation Harvard Medical School Prize for Biomedical Research
2021 Canada Gairdner International Award for Biomedical Science
2021 Elected to the National Academy of Sciences, USA
2022 Inducted into the Canadian Medical Hall of Fame

Named Lectureships

1999 Clinical Research Society of Toronto Novartis Senior Scientist Award
1999 Clinical Research Institute, University of Montreal Pfizer Visiting Professor
1999 Annual Peter Laurie Lecture of the Juvenile Diabetes Foundation
2001 University of Utah, Salt Lake City: Tyler Memorial Lecture
2002 The Kroc Lectureship in Diabetes at the University of Alabama, Birmingham
2005 The Annual Williams Lecture in Diabetes, University of Rochester
2005 The Annual Melvin C. Gluck Lectureship, New York University School of Medicine
2005 Annual Novo Nordisk Lecturer in Diabetes, McGill University
2006 The 9th Annual John Ensink Lecture, University of Washington, Seattle
2006 The Rufus Cole Memorial Lecture, Rockefeller University, New York
2007 Charles Hollenberg Award Lecture, University of Toronto
2007 Charles H Best Lecture Award, Toronto Diabetes Association
2007 The Catherine Tuck Memorial Lecture, Columbia University
2007 Donald F. Steiner Award for Outstanding Diabetes Research, University of Chicago
2009 The Albert and Miriam Weinstein Lectureship, Vanderbilt University
2009 Beth Zaruby Memorial Lecture in Diabetes Research, University of Calgary Faculty of Medicine
2009 Pfizer Visiting Professor Lectureship, University of Pennsylvania
2009 29th Novo Nordisk Plenary Lecture of the Irish Endocrine Society
2009 CH Best Lectureship and Award, Department of Physiology, University of Toronto
2011 Priscilla White Lectureship in Diabetes and Metabolism, Harvard Medical School
2011 AACE Visiting Professor, Beth Israel Hospital, Harvard Medical School
2012 Harold Rifkin Lectureship, Albert Einstein College of Medicine, Yeshiva University New York
2014 Lydia J. Robert lectureship in Molecular Metabolism and Nutrition, University of Chicago
2014 D. Walter Cohen DDS Lectureship in Diabetes, Drexel University, Philadelphia
2014 Dr. J. David Grimes Lecture Ottawa Hospital Research Institute, University of Ottawa
2015 McGill Novo Nordisk Lectureship in Diabetes, Montreal, Canada
2015 Tisdale Lectureship, University of Vermont
2015 The Bill Vlahos Memorial Lecture, University of British Columbia
2015 University of Utah, Salt Lake City: Frank H Tyler M.D. Memorial Lecture
2015 Jacques Genest Lectureship Award, Canadian Society of Endocrinology & Metabolism
2016 Richard Horton Lecture in Endocrinology, University of Southern California School of Medicine
2016 3d Annual George Cahill Jr. Lectureship, University of Montreal Diabetes Research Centre
2016 The Myron B Zinn Memorial Lecture, Maimonides Society, San Antonio, Texas
2017 The Oliver Smithies Lecture, University of Toronto, Canada
2018 The Piero P. Foa Memorial lectureship Wayne State University, Detroit
2018 The 11th Levi J. Hammond Lecture, University of Pennsylvania Perelman School of Medicine
2018 The 8th Robert D. Utiger Memorial Lecture in Endocrinology, Brigham and Women's Hospital, Harvard University
2018 The Annual Kroc Lectureship, Ohio State University, Wexner Medical Center
2018 The 2018 Düsseldorf Diabetes Lecture, German Diabetes Centre
2019 I.G. Bromberg Memorial Visiting Professorship, UT Southwestern, Dallas
2019 7th Annual Wylie Vale Memorial Lectureship, Salk Institute, San Diego
2019 The Harrison Medal Award Lecture Australian Endocrine Society
2019 Kroc Visiting Scholar Lecture, University of Washington, Seattle WA
2019 The Helmholtz Diabetes Lecture, Munich Germany
2019 The Fitkin Oration, Australian Society for Medical Research
2019 The Max McKenzie Lectureship, University of Miami
2020 The Annual Distinguished Speaker Lectureship in Endocrinology, University of California, Irvine

2020 The Josiah Brown Lectureship, University of California, Los Angeles
 2020 DREAM Trainee Lectureship in Diabetes, University of Manitoba
 2021 The Stanley Mirsky, MD lectureship, Icahn School of Medicine, Mount Sinai Hospital, NY
 2021 The Albert Renold Lecture, the Swiss Endocrine Society, Switzerland
 2022 The Tinsley Randolph Harrison Society visiting professorship lecture, Vanderbilt University
 2022 The John Service Memorial Lecture, Mayo Clinic
 2022 The George L Blackburn Lecture, Dartmouth Geisel School of Medicine
 2022 The Jackson Memorial Lecture, South African Endocrinology, Metabolism, and Diabetes Society, Cape Town

Academic and University Appointments

1987- Assistant Professor of Medicine, University of Toronto
 1989- Assistant Professor of Clinical Biochemistry
 1989-91 Assistant Professor of Medical Genetics
 1991-6 Associate Professor of Medicine, Clinical Biochemistry, and Genetics, University of Toronto
 1992-01 Director, Division of Endocrinology, Department of Medicine, University of Toronto
 1996- Professor, Departments of Medicine, University of Toronto
 1997- Professor, Department of Laboratory Medicine and Pathobiology
 2000-11 Director, Banting and Best Diabetes Centre, University of Toronto

Academic Activities

1987- Reviewer for *Endocrinology*, *Annals of Internal Medicine*, *Molecular and Cellular Biology*, *Molecular Endocrinology*, *Endocrinology*, *Journal of Clinical Endocrinology and Metabolism*, *Journal of Biological Chemistry*, *Journal of Clinical Investigation*
 1988- Grant reviewer for Manitoba Foundation for Health Sciences, HSC Research Foundation MRC, NCI, CDA, and Kidney Foundation
 1988-92 Appointed to NCI Grants panel D, Molecular Biology
 1989-92 Appointed to Canadian Diabetes Association Grants Panel-Personnel Awards
 1990-92 Appointed Chairman, Molecular and Cellular Biology Grants panel D, National Cancer Institute
 1990-4 Appointed to Medical Sciences Advisory Board, Juvenile Diabetes Foundation International
 1991-4 Appointed to University of Toronto Connaught Life Sciences Review Panel
 1992-94 JDF Canada Government and Research Committee
 1994 Postgraduate Endocrine Assembly Program Committee Toronto November
 1995-6 Appointed to Research Grants Panel, Canadian Diabetes Association
 1994/5 Vice-President, Clinical Research Society of Toronto
 1996 President, Clinical Research Society of Toronto
 1997-00 Appointed Chair, MRC Endocrinology Grants panel
 1998 Ontario Research and Development Challenge Fund Scientific Review Panel
 1999-00 Ad Hoc Member, NIH Metabolism Study Section
 1999-02 JDRF Medical Science Review Committee
 1999- Endocrine Society Meetings and Educational Programs Committee
 1999-01 Endocrine Society Annual Meeting Steering Committee
 1999 Chair, IUPHAR Glucagon and Related Receptors Subcommittee
 2000 Endocrine Society Media Relations Committee
 2000-2 Appointed to Editorial Board, Endocrinology
 2001 Endocrine Society E-Learning Subcommittee
 2001 Appointed to Editorial Board, American Journal of Physiology-Endocrinology and Metabolism
 2001-4 Appointed to Editorial Board, Diabetes
 2002 Appointed to Editorial Board, Molecular Endocrinology
 2002 Meeting Organizer and Chair, Genomics and Proteomics Course for the Endocrine Society, New Orleans Nov 17-18, 2003
 2002-4 Gairdner Foundation Awards Committee

- 2002 Steering Committee of International Symposia on Regulatory Peptides
- 2002-8 Editor, Endocrinology
- 2002 Organized and chaired 2002 Endocrine Society Hot Topics Meetings on “Genomics and Proteomics in Endocrine Systems, New Orleans, November 15-16, 2002
- 2003-6 Elected to Council, Endocrine Society
- 2003 Organizing and Program Committee, ADA 2003 Meeting on Novel Roles of GI Hormones in Energy Homeostasis, Long Beach, CA Dec 9-12, 2003
- 2003 American Diabetes Association Program Committee
- 2005- Editorial Board, Nature Reviews Endocrinology and Metabolism
- 2006-15 Editorial Board, Endocrine Reviews
- 2008-11 Editorial board, Gastroenterology
- 2009 Chair, CQDM-FRSQ Grants Panel on FRSQ-Pharmaceutical Research
- 2008-11 Awards Committee, Canadian Society of Endocrinology and Metabolism
- 2010-4 Awards Committee, Endocrine Society
- 2011-2 Chair, Awards Committee, Endocrine Society
- 2011 CIHR NCIC Team Grant Cancer Review Panel
- 2011-15 Scientific Advisory Board Norcomm2 Mouse Genetics Consortium
- 2012-4 Editorial Board, Endocrinology
- 2012-5 Scientific Advisory Board, The Novo Nordisk Foundation Center for Basic Metabolic Research University of Copenhagen
- 2013-14 Scientific Advisory Board, Institute for Translational Medicine and therapeutics, University of Pennsylvania
- 2013-4 TrialNet Incretin Therapy for Prevention of Type 1 Diabetes Protocol Committee
- 2014- Consulting Editor, Diabetes
- 2014-20 International scientific review panel, Leducq Foundation, Paris
- 2014-7 Nominating Committee, Endocrine Society
- 2016-18 EASD Claude Bernard Award Selection Committee
- 2016-17 Manpei Suzuki Award Committee
- 2016- Editorial Board, Journal of the Endocrine Society
- 2016-19 Royal Society, London, Sectional Committee 10 Evaluation of candidates for election to fellowship
- 2017- American Diabetes Association Pathway to Stop Diabetes Mentor Advisory Panel
- 2018- Editorial Board, Molecular Metabolism
- 2018-21 Editor-in-Chief, Endocrine Reviews
- 2018-21 Chair, American Diabetes Association’s Medicine, Science and Health Care Awards Committee
- 2019-21 External Advisory Board Review, Lady Davis Research Institute, Montreal
- 2020 Rolf Luft Lectureship and Prize Awards Committee, Karolinska Institute
- 2020- External Advisory Board, University of Pennsylvania Institute for Diabetes, Obesity and Metabolism
- 2021- Editorial Board, Cell Metabolism
- 2021- Chair, Pfizer ASPIRE Obesity Grants Panel
- 2022 Chair EASD Novo Nordisk Foundation Prize Committee for Excellence in Diabetes

University of Toronto Committees and Academic Responsibilities

- Banting and Best Diabetes Centre Research and Development Committee (1988-91)
- Banting and Best Diabetes Centre Facilities Committee (1987-89)
- Banting and Best Diabetes Center Executive Committee (1991-ongoing)
- Toronto Diabetes Association Executive (1989-91)
- Coordinator, TDA Research competition (1989-91)
- Department of Medicine Economics Committee (1988-94)
- University of Toronto Endocrinology Executive (1989-2001)
- Chair, Connaught Life Sciences Panel, University of Toronto (1993-4)
- Coordinator, City-wide Endocrine rounds, University of Toronto (1989-92)
- Department of Medicine Research Committee, University of Toronto (1990-92)
- Strategic Planning Committee, University Division of Endocrinology (1990-92)

Clinical Research Society of Toronto Executive Committee (1993-95)
Banting and Best Diabetes Centre/Eli Lilly Diabetes Research Program Executive Committee (1996-00)
Toronto General Hospital Research Reorganization Committee (1998-99)
UHN-Mt. Sinai Economics Committee (2001-4)
Promotions Committee, University of Toronto Faculty of Medicine (2004)
Member, Dean's Taskforce on Industry Relationships and Commercialization (2009-11)
Member, Faculty of Medicine Innovation/Entrepreneurship Committee (2014-16)
Department of Medicine Research Committee (2014-)
Department of Medicine Merit Review Committee (2016-)
Chair, Program Committee, for April 2021 100th Anniversary of the Discovery of Insulin Meeting

Peer-reviewed Grant Support: 1987-ongoing

1)Deans Fund 1987

Glucagon gene expression \$5,000.00

2)Connaught Foundation 1987

Molecular Biology of Glucagon Gene Expression \$13,650.00

3)Bickell Foundation 1987

Hormone Gene Expression \$10,000.00

4)Cummings Foundation 1987

Glucagon Gene Transcription (US Funds) \$24,371.00

5)Medical Research Council Operating 1987-1990

Glucagon gene expression \$127,400.00

6)National Cancer Institute Operating 1987-1990

Hormone gene expression in neoplastic cells \$146,783.00

7)Medical Research Council Operating 1990-1993

Glucagon gene expression \$261,900.00

8)National Cancer Institute Operating 1990-1993

Hormone gene expression in neoplastic cells \$250,000.00

9)Canadian Diabetes Association Operating 1990-1991

Parathyroid hormone-like peptide in the pancreas \$120,000.00

10)Canadian Diabetes Association Operating 1992-1993

Molecular Determinants of Islet Cell Differentiation \$50,000.00

11)Dennis Scholarship 1990-1993

Diabetes Research, Banting and Best Diabetes Centre \$30,000.00

12)Juvenile Diabetes Foundation International 1992-94

LIM domain proteins in the islets of Langerhans (US) \$100,000.00

13)National Cancer Institute Operating 1993-1996

Cheryl F. Rosen and Daniel J. Drucker Co investigators

Effects of ultraviolet radiation on mammalian keratinocytes \$224,082.00

14)Medical Research Council of Canada Operating 1993-1998

Regulation of glucagon gene expression Now 90,000 per annum \$476,500.00

15) National Cancer Institute Operating 1993-1994
Regulation of parathyroid hormone related peptide gene expression \$39,291.00

16) National Science and Engineering Research Council of Canada *Identification and efficacy analysis of a novel small bowel growth factor 1993-95 \$235,000.00*

17) Juvenile Diabetes Foundation International Operating 1994-96
Development and analysis of a mouse model with a null mutation at the GLP-1 receptor locus \$130,000.00

18) Canadian Diabetes Association Operating 1995-96
Molecular Characterization of a novel GLP-1 related peptide \$58,385.00

19) NSERC-Industry Collaborative R & D Award 1996-98
Characterization and pharmacological development of a novel intestinal growth factor \$451,580.00

20) National Cancer Institute 1996-99
C. Rosen and D. Drucker co-PI
Cellular Perturbations in response to UVB radiation \$331,186.00

21) Juvenile Diabetes Foundation International Operating 1996-98
Characterization of mice with a germline disruption of the GLP-1 receptor gene \$100,000.00

22) Canadian Diabetes Association Operating 1998-2000
D. Drucker P.I.
Role of GIP, GLP-1 and leptin in glucose homeostasis
\$59,000/annum

23) Juvenile Diabetes Foundation International 1998-2000
D. Drucker P.I.
Central and peripheral determinants of GLP-1 action
\$96,500/annum US

24) Medical Research Council of Canada Operating 1998-2001
D. Drucker
The role of GLP-2 in the control of intestinal growth
\$64,755/annum

25) Medical Research Council of Canada Operating 1998-2003
D. Drucker
Glucagon Gene Expression
\$139,070/annum

26) Eli Lilly-BBDC University of Toronto Research Program 1998-2000
D. Irwin and D. Drucker coPI
In vitro and in vivo models for regulation of the human proglucagon gene
\$60,000/annum

27) ORDCF Research Program 1999-2002
D. Drucker PI
Novel glucagon-like peptide agonists and antagonists
\$175,000/annum from each partner

- 28) Canadian Diabetes Association
D. Drucker PI
Peptide hormones and regulation of glucose homeostasis
July 1 2000-2002
\$60,000 per annum
- 29) Canadian Diabetes Association
C. Rosen PI D. Drucker coPI
Metabolic characterization of a novel AMPK-related protein kinase
July 1 2000-2001
\$60,000 per annum
- 30) Juvenile Diabetes Foundation International
D. Drucker PI
GLP-1 receptor and the control of glucose homeostasis
Sept 1 2000-Sept 1 2003
\$185,810 US per annum
- 31) CIHR
D. Drucker PI
Physiological significance of GLP-2 action 14799
April 1 2001-2006
\$166,782/annum
- 32) National Institutes of Health R01 DK59751-01
J. Elmquist PI D. Drucker Co-PI-Subcontract for Canadian PI
The role of central GLP-1 systems in counter-regulatory responses
Feb 1 2001-2003
\$320,074 US/annum
- 33) National Cancer Institute of Canada
PI: D. Drucker
Title: GLP-2 receptor and the control of neoplastic cell growth
Award term-3 years, July 1 2001-2004
Amount Awarded: \$126,467/annum
- 34) Canadian Diabetes Association Grant 1212
PI: D. Drucker
Title: Incretin receptors and the control of glucose homeostasis
Award Term: 3 years, July 1 2002-5
Amount Awarded" \$67,500/annum
- 35) CIHR
PI: Dr. P. Brubaker co-PI Dr. D. Drucker
Role of gastrointestinal peptides in vagally-mediated satiety signaling
Pilot Project /grant
Award Term 1/11/2002-10/2003
Amount Awarded: \$47,200
- 36) Ontario Research and Development Challenge Fund
PI: D. Drucker
Program in Gastrointestinal Genomics
Award Term 1/1/2003 to 12/31/2005
Amount Awarded \$756,367 pa

- 37) CIHR 117237
PI: Dr. D. Drucker
Glucagon Gene Expression and Glucagon Action
Award Term 1/10/2003-30/9/2008
Amount Awarded: \$162,408 pa
- 38) JDRF
PI: Dr. D. Drucker
GLP-1 receptor signaling, islet cell growth and survival
Award Term 1/10/2003-30/9/2006
Amount awarded \$165,000 USD pa
- 39) Bristol Myers Squibb Foundation
Freedom to Discover Unrestricted Research Grant
Metabolic Disease Research
January 1 2004-Dec 31 2008
\$100,000 USD per annum
- 40) NIH R21 DK06636-01
GLP-1 to enhance islet transplantation
PI: Dr. A. Powers, Vanderbilt University
Subcontract: D. Drucker
9/30/03-9/30/05
Amount of subcontract: \$68,040 USD
- 41) Canadian Diabetes Association GA-3-05-1847-DD
GIP and the islet β cell
PI: Dr. D. Drucker
7/1/2005-6/30/2007
\$75,000 CAD/annum
- 42) Heart & Stroke Foundation of Ontario NA 5926
Role of glucagon-like peptides in cardiac health and disease
PIs: Mansoor Husain and Daniel J. Drucker
7/1/2006-6/30/2009
\$94,000/annum
- 43) National Cancer Institute of Canada
GLP-2 receptor activation and the control of cell growth
PI: Daniel J. Drucker
7/1/2006-6/30/2011
\$141,000/annum
- 44) CIHR
Physiology of GLP-2 Action
PI: Daniel J. Drucker
4/1/2006-3/30/2011
\$135,368/annum
- 45) CIHR-Industry Operating Grant
Cardiovascular biology of incretin enhancers
PI: Daniel J. Drucker
09/01/2006-08/30/2009

\$162,000/annum

46) Juvenile Diabetes Research Foundation
Enhancing incretin action for the treatment of diabetes
PI: Daniel J. Drucker
10/01/2006-9/30/2009
\$165,000 USD/annum

47) Canadian Institutes for Health Research
Elucidating the role of GIP in glucose homeostasis
PI: Daniel J. Drucker
4/1/2007-3/31/2012
\$111,393/annum

48) CIHR
Role of Gut hormones and DPP-4 in bone and mineral homeostasis
PI: Dr. D. Drucker Co-PI Dr. M. Grynepas
Dates of Approved Project 1/1/2008-31/3/2008
Direct Costs Awarded: \$100,000 Partial funding for “non-funded CIHR grant application
Percent Effort Allocation: 5 %

49) Canadian Diabetes Association
Incretin hormones, diabetes and skeletal health
PI: Dr. D. Drucker Co-PI Dr. M. Grynepas
Dates of Approved Project 7/1/2008-6/30/2011
Direct Costs Awarded: \$270,750 over 3 years

50) CIHR MOP 93749
Elucidation of novel mechanisms of glucagon action
PI: Dr. D. Drucker
Dates of Approval: 1/4/2009-31/3/2014
Direct costs Awarded: \$147,586 per annum

51) HSFO T6757
The role of glucagon-like peptide-1 in cardiac health and disease
PI: Dr. M. Husain co-PI Dr. D. J. Drucker
Dates of Approval: July 1 2009-June 30 2014
Direct costs: \$724,281 over 5 years
Percent Effort 5%

52) HSFO NA 6997
Incretin action and the cardiovascular system
PI: Dr. D. Drucker co-PI Dr. M. Husain
Dates of Approval July 1 2010-June 30 2013
Direct Costs: \$109,100 per annum
Percent Effort: 10%

53) Canadian Diabetes Association OG-3-11-3270-DD
GPR119 and the control of glucose homeostasis
PI: Daniel J Drucker
Dates of Approval: July 1 2011-June 30 2014
Direct costs: \$91,667/annum
Percent Effort:10%

54) CIHR DC0190GP

Gipr and the control of glucose homeostasis

PI: Daniel J Drucker

Dates of Approval: April 1 2012-March 31 2017

Direct costs: \$156,423

Percent Effort: 10%

55) CIHR 14799

Enteroendocrine control of nutrient assimilation

PI: Dr. Daniel J Drucker

Date of approval Oct 1 2012-Sept 30 2017

Direct costs: 161,925

Percent effort: 15%

56) HSFC GIA G-14-0005953 1417

Cardiovascular biology of dipeptidyl peptidase 4

Date of Approval: July 1 2014-June 30 2017

Direct costs \$82,080 per annum

Percent effort 10%

57) CIHR 136942

Glucagon receptor and the control of metabolism

PI: Dr. Daniel J Drucker

Date of approval Oct 1 2014-Sept 30 2019

Direct costs: 149,873 per annum

Percent effort: 15%

58) CIHR

Molecular and cellular mechanisms of DPP-4 action

PI: Dr. Daniel Drucker

Date of Approval: Oct 1 2015-Sept 30 2018

\$138,518 per annum

Percent effort: 10%

59) CIHR 154321

Mechanisms of peptide hormone action: metabolic and therapeutic implications

PI: Dr. Daniel J. Drucker

Date of Approval: July 1 2017-June 30 2024

\$652,743 annum

Percent effort: 75%

60) Canada Israel Health Research Program CIHR

Immunometabolic roles and therapeutic potential of glucose-dependent insulintropic polypeptide (GIP)

Canadian PI: Dr. Daniel J. Drucker

Date of Approval November 1 2019-Oct 31 2022

Total Direct Costs: \$670,000

Percent Effort 15%

61) JDRF Grant Key: 5-SRA-2020-1058-S-B

Project Title: Using novel transplantation strategies and HLA-edited hypoimmunogenic hPSCs to develop a superior islet-like product for T1D treatment

PI: Dr. C Nostro

12/01/2020 - 11/30/2025

Total Direct Costs \$30,000 per annum to D Drucker

Percent Effort 5%

Personnel Awards:

Awarded CDA Scholarship June 1987-declined

Awarded JDFI Career Development Award June 1987-declined

Awarded NCI Research Scientist June 1987-declined

Awarded MRC Scholarship: Held 1987-1989 \$45,000.00/annum

Awarded Ontario Ministry of Health Career Scientist Award 1989-94

\$48,000.00/annum Renewed 1994-1999, but declined

Awarded MRC Career Scientist, 1994-99, \$70,000/year

Awarded CIHR Senior Scientist 1999-2004

Awarded Canada Research Chair in Regulatory Peptides 2004-10 \$200,000 per annum

Awarded BBDC-Novo Nordisk Chair in Incretin Biology May 2010-2015 \$180,000 per annum

Awarded Renewal, Canada Research Chair in Regulatory Peptides 2011-18 \$200,000 per annum

Patents

- 1) *Glucagon-like peptide 2 analogs*. US Patent Issued August 4 1998 No 5,789,379 **D. J. Drucker**, A. Crivici, M. Sumner-Smith
- 2) *Glucagon-like peptide 2 and its therapeutic use*. US Patent Issued Nov 10, 1998 No. 5,834,428 **D. J. Drucker**
- 3) *Method of using exendin and GLP-1 to affect the central nervous system* US Patent Issued Dec 8 1998 No. 5,846,937 **D. J. Drucker**
- 4) *Compositions and methods for enhancing intestinal function*. US Patent Issued 5,952,301 September 14 1999 **D. J. Drucker**
- 5) *Glucagon-like peptide 2 and its therapeutic use*. US Patent Issued Nov 23 1999 No. 5,990,077 **D. J. Drucker**
- 6) *Antagonists of intestinotrophic GLP-2 peptides*. US Patent issued Nov 30 1999 No. 5,994,500 **D. J. Drucker**, A. Crivici, M. Sumner-Smith.
- 7) *Methods of enhancing functioning of the upper gastrointestinal tract* US Patent issued 6,051,557 April 18 2000 **D. J. Drucker**
- 8) *Intestinotrophic Glucagon-like peptide 2 analogs*. US Patent Issued February 6, 2001 No. 6,184,201 **D. J. Drucker**, A. Crivici, M. Sumner-Smith.
- 9) *Methods of enhancing functioning of the large intestine*. US Patent 6,297,214 Issued Oct 2 2001 **D. J. Drucker**
- 10) *Antagonists of intestinotrophic GLP-2 peptides* US Patent 6,489,295 Issued December 3 2002 **D. J. Drucker**, A. E. Crivici, M. Sumner-Smith.
- 11) *Methods of enhancing functioning of the large intestine*. US Patent 6,586,399 Issued July 1 2003 **D. J. Drucker**
- 12) *Polynucleotides encoding proexendin, and methods and uses thereof*. US Patent issued April 20 2004 6,723,530 **D. J. Drucker**
- 13) *Method of regulating glucose metabolism, and reagents related thereto* US Patent issued Oct 12 2004 6,803,357 Co-inventors W. Bachovchin, A.G. Plaut, and **D. J. Drucker**
- 14) *Methods of regulating glucose metabolism and reagents related thereto* W. Bachovchin, A. Plaut and **D. J. Drucker** US Patent 6,890,898 Issued May 10 2005
- 15) *Glucagon-like peptide 2 and its therapeutic use*. **D. J. Drucker** US Patent issued May 23 2006 7,049,284
- 16) *Methods of regulating glucose metabolism and reagents related thereto* W. Bachovchin, A. Plaut and **D. J. Drucker** US Patent 7078381 Issued July 18 2006
- 17) *Method of regulating glucose metabolism, and reagents related thereto* W. Bachovchin, A. Plaut and **D. J. Drucker** US Patent 7,157,429 Issued Jan 2 2007
- 18) *Methods of enhancing functioning of the large intestine* **D. J. Drucker** US Patent 7,176,182 Issued February 13 2007
- 19) *Method of regulating glucose metabolism, and reagents related thereto* W. Bachovchin, A. Plaut and **D. J. Drucker** US Patent 7,459,428 Issued December 2 2008

- 20) *Methods of enhancing functioning of the large intestine* **D. J. Drucker** US Patent 7,642,241 Issued January 5 2010
- 21) *Glucagon-like peptide-2 analogs* **D. J. Drucker**, A. Crivici, M. Sumner-Smith US Patent 7,781,401 issued August 24 2010
- 22) *Method of regulating glucose metabolism, and reagents related thereto* W. Bachovchin, A. Plaut and **D. J. Drucker** US Patent 7,829,530 issued November 9 2010
- 23) *Enhancement of GLP-2 activity of suppressing appetite* **D. J. Drucker** and J. A. L. Lovshin, US Patent 7,862,824 issued January 4 2011
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