

CURRICULUM VITAE

A. Name: Daniel Joshua Drucker

B. CV January 29 2025

C. Biographical Information

Date of Birth: June 23 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 scholar.google.com/citations?user=xmFOoRYAAAAJ&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- 2025 Cross Appointment Mount Sinai Hospital Associate Staff
2026- Emeritus Staff, Mt. Sinai Hospital
2006- Senior Scientist, Lunenfeld-Tanenbaum Research Institute, Mt. Sinai Hospital

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
2023- University Professor, University of Toronto

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
 2023 The Wolf Prize in Medicine
 2023 Elected to the National Academy of Medicine (USA)
 2023 The VinFuture Prize for innovators with outstanding achievements in emerging fields
 2024 The Princess Asturias Award for Technical and Scientific Research
 2024 The TOPS Research Achievement Award, The Obesity Society
 2025 The BBVA Frontiers of Knowledge Award in Biology and Biomedicine
 2025 AACR-Irving Weinstein Foundation Distinguished Lectureship Award, American Association for Cancer Research
 2025 American Physiology Society- The Solomon A. Berson Distinguished Lectureship Award
 2025 The 2025 Warren Triennial Prize, Massachusetts General Hospital
 2025 The Breakthrough Prize in Life Sciences and Medicine
 2025 American Association of Clinical Endocrinology Kahn-Tan-Faiman Frontiers in Science and Endocrinology Award
 2025 Honorary Master of the American Association of Clinical Endocrinology (MACE) Distinction
 2025 The Fred Conrad Koch Lifetime Achievement Award, The Endocrine Society
 2025 Honorary doctorate, McMaster University, Hamilton, Ontario

Public recognition

2024 Time 100 most influential people
 2024 Time 100 most influential people in health care
 2024 American Academy of Achievement, Golden Plate Award

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
2023 The Ray A and Robert L Kroc Lecture, Institute for Diabetes, Obesity and Metabolism, University of Pennsylvania
2023 The Kendall-Hench Lecture, Mayo Clinic, Rochester Minnesota
2023 The Bernard Langer Lecture in Health Sciences, Institute of Medical Sciences, University of Toronto
2023 The Brosnan Lecture in Biochemistry, Memorial University
2023 The John Morgan lectureship, University of Pennsylvania
2024 The Veda R. and Buford L. Nichols Jr. Lecture, Baylor College of Medicine, Houston
2024 The John P. Peters Lecture, Yale University, Department of Medicine, New Haven
2024 The Bobby R Alford Distinguished Lectureship, Baylor College of Medicine, Houston
2024 The Lewis Landsberg Obesity Lectureship, Northwestern Feinberg School of Medicine, Chicago
2024 The Jeffrey S. Flier and Eleftheria Maratos-Flier Lectureship, BIDMC, Harvard, Boston
2024 The Blackburn Keynote Lecture, The Blackburn Course in Obesity Medicine, Harvard University
2024 The Morris Kates lectureship, Department of Biochemistry, University of Ottawa
2024 The Wilkins Visiting Professorship & Lecture, Boston University Medical Center
2024 Inaugural Eating Disorders Lecture at Rutgers Addiction Research Center, Rutgers University
2024 The Lemieux Lecture in Biotechnology, University of Alberta
2024 The Grant R Wilkinson Distinguished Lectureship in Clinical Pharmacology, Vanderbilt University
2024 The Irwin Eskin MD Lecture in Biomedical Science, Vanderbilt University
2024 The Phil Wells Lectureship, University of Ottawa
2024 The Mary Shorb Lecture, University of Maryland
2025 The DeWitt Goodman Lecture, Columbia University School of Medicine
2025 The John F. Crigler, Jr., M.D. Memorial Lecture, Boston Childrens Hospital, Harvard
2025 The Lee E. Farr Lecture, Yale University School of Medicine

2025 The Richard Horton Lectureship, USC School of Medicine
2025 The Chicago Scholars Lectureship, University of Chicago & Northwestern University
2025 The Inaugural Dr. David CW Lau Lectureship, Canadian Association of Bariatric Physicians and Surgeons

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
- 2020-3 External Advisory Board, University of Pennsylvania Institute for Diabetes, Obesity and Metabolism
- 2021- Editorial Board, Cell Metabolism
- 2022- Advisory Board, McMaster Centre for Metabolism, Obesity and Diabetes Research
- 2021-3 Chair, Pfizer ASPIRE Obesity Grants Panel
- 2022- Chair EASD Novo Nordisk Foundation Prize Committee for Excellence in Diabetes
- 2024 Selection Committee Editorial Board, JCI Insight, ASCI
- 2024- Gairdner Foundation, Medical Advisory Board
- 2025- Breakthrough Prize Award Committee

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

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
- 24) *Glucagon-like peptide-2 and its therapeutic use* **D. J. Drucker** US Patent 7,888,317 Issued February 15 2011
- 25) *Methods of enhancing functioning of the large intestine* **D. J. Drucker** US Patent 7,960,344 issued June 14 2011
- 26) *Methods of enhancing functioning of the large intestine* **D. J. Drucker** US Patent 8,278,273 October 2 2012
- 27) *Method of regulating glucose metabolism, and reagents related thereto* W. Bachovchin, A. Plaut and **D. J. Drucker** US Patent 8,318,669 issued November 27 2012
- 28) *Method of regulating glucose metabolism, and reagents related thereto* W. Bachovchin, A. Plaut and **D. J. Drucker** US Patent 8,513,190 issued August 20 2013
- 29) *Methods of enhancing functioning of the large intestine* **D. J. Drucker** US Patent 8,603,976 issued December 10 2013
- 30) *Glucagon-like peptide-2 analogs* **D. J. Drucker**, A. Crivici, M. Sumner-Smith US Patent 8,846,625 issued September 30 2014
- 31) *Glucagon-like peptide-2 analogs* **D. J. Drucker**, A. Crivici, M. Sumner-Smith US Patent 8,933,039 issued January 13 2015
- 32) *Method of regulating glucose metabolism, and reagents related thereto* W. Bachovchin, A. Plaut and **D. J. Drucker** US Patent 9,044,424 issued June 2 2015
- 33) *Methods for treating disorders of the gastrointestinal tract using a GLP-1 agonist* **D. J. Drucker & L. L. Baggio** US Patent 9,168,288 issued October 27 2015.

Filed/Issued Foreign patents not listed

E Peer-reviewed Publications

Original Research

1. **Drucker D. J.** Aortic Aneurysms. University of Toronto Medical Journal 1976 56:112-6 NP
2. Eggo M.C., **Drucker D. J.**, Cheifetz R., Burrow G.N. Post-translational modification of prothyroid hormone. Cdn. J. Biochem Cell Biol 1983 61:662-669
3. **Drucker D. J.**, Zinman B. Pathophysiology of beta cell failure following prolonged remission of insulin dependant diabetes mellitus(1DDM) Diabetes Care 1984 7:83-87
4. **Drucker D. J.**, Shumak S., Angel A. Schmidt's syndrome presenting with intrauterine growth retardation and postpartum addisonian crisis. Am. J. Ob. Gyn.1984 149:229-230
5. **Drucker D. J.**, Eggo M.C., Salit I. E., Burrow G. N. Ethionamide induced goitrous hypothyroidism. Annals Int Med 1984 100:837-839
6. **Drucker D. J.**, Bookman A. Pseudotumor Cerebri with urticaria, hypocomplementemic vasculitis and cryoglobulinemia. Can Med Assoc J. 1985 132:147-149
7. **Drucker D. J.**, Shandling M. Variable adrenocortical function in acute medical illness. Crit Car Med 1985 13:477-479
8. **Drucker D. J.**, Josse R. Non-neoplastic inappropriate TSH secretion with resistance to dopaminergic TSH inhibition. Clin Invest Med 1985 8:117-120
9. **Drucker D. J.**, Burrow G.N. Cardiovascular surgery in the hypothyroid patient. Arch Int Med 1985 145:1585-1587
10. Detsky A.S., Abrams H.B., McLaughlin J.R., **Drucker D. J.**, Sasson Z., Johnston N., Scott J.G., Forbath N., Hilliard J.R. Predicting cardiac complications in patients undergoing non-cardiac surgery. J. Gen Int Med 1986 1:211-219
11. **Drucker D.J.**, Mclaughlin J. Adrenocortical dysfunction in acute medical illness. Crit Care Med 1986 14:789-791
12. **Drucker D. J.**, Mojsov S., Habener J.F. Cell-specific posttranslational processing of preproglucagon expressed from a metallothionein-glucagon fusion gene. J. Biol. Chem. 1986 261:9637-9643
13. Philippe J., Mojsov S., **Drucker D. J.**, Habener J.F. Proglucagon processing in a rat islet cell line resembles phenotype of intestine rather than pancreas. Endocrinology 1986 119:2833-2839
14. Philippe J., **Drucker D. J.**, Habener J.F. Glucagon gene transcription in an islet cell line is regulated via a protein kinase C activated pathway. J. Biol. Chem. 1987 262:1823-1828
15. Philippe J., **Drucker D. J.**, Habener J. F. Transcriptional regulation of genes encoding insulin, glucagon, and somatostatin by sodium butyrate in a rat cell line. Mol. Cell. Biol 1987 7:560-563
16. **Drucker D. J.**, Philippe J., Mojsov S., Chick W.L., Habener J.F. Insulinotropin: A novel glucagon related peptide stimulates insulin gene expression Proc. Natl. Acad. Sci (USA) 1987 84:3434-3438
17. **Drucker D. J.**, Philippe J., Jepeal L., Habener J.F. Cis-acting DNA sequence controls glucagon gene expression in pancreatic alpha cells Trans. Assoc. Amer. Phys.1987 vol C:109-115
18. **Drucker D. J.**, Philippe J., Jepeal L., and Habener J.F. Glucagon gene 5'-flanking sequences promote islet cell-specific gene transcription J. Biol. Chem. 1987 262:15659-15665
19. **Drucker D. J.**, Mojsov S., Philippe J., and Weir G. C. Cell-specific alternative post-translational processing of

proglucagon. 1988, 1-14, Proceedings of the A. Benzon Symposium, Raven Press

20. Philippe J., **Drucker D. J.**, Knepel W., Jepeal L., and Habener J.F Alpha-cell specific expression of the glucagon gene is conferred to the glucagon promoter element by the interactions of DNA-binding proteins. *Mol. Cell. Biol.* 1988 8:4877-4888

21. Philippe J., Mojsov S., Powers A., **Drucker D. J.**, Comi R., Habener J.F. Expression of peptide hormone genes in human islet cell tumors. *Diabetes* 1988 37:1647-1651

22. **Drucker D. J.**, Philippe J., and Habener J. F. Regulation of glucagon gene expression. *Biomed. Res.* 1988 9:1-6.

23. **Drucker D. J.**, and Brubaker P. L. Glucagon biosynthesis in fetal rat intestine. *Biomed. Res.* 1988 9:29-32

24. **Drucker D. J.**, and Asa S. Glucagon gene expression in vertebrate brain. *J. Biol. Chem.* 1988 263:13475-1378

25. **Drucker D. J.**, Philippe J., and Mojsov S. Proglucagon gene expression and post-translational processing in a hamster islet cell line. *Endocrinology* 1988 123: 1861-1867

26. **Drucker D. J.**, and Brubaker P. Glucagon gene expression in rat intestine is regulated by a cyclic AMP-dependent pathway. *Proc. Natl. Acad. Sci (USA)* 1989 86:3953-3957

27. Brubaker P. L., So D. C. Y., and **Drucker D. J.** Tissue-specific differences in the levels of proglucagon-derived peptides in streptozotocin-induced diabetes. *Endocrinology* 1989 124:3003-3009

28. Siminoski K., Goss P., and **Drucker D. J.** Medroxyprogesterone acetate induced Cushings syndrome *Ann Intern Med* 1989 111: 758-760

29. **Drucker D. J.**, Asa S.L., Henderson, J., and Goltzman, D. The parathyroid-like protein gene is expressed in the normal and neoplastic human endocrine pancreas *Molecular Endocrinology* 1989 3:1589-1595

30. Lui E., Asa S., **Drucker D. J.**, and Brubaker P. L. Glucagon-related peptides in fetal rat hypothalamic cultures *Endocrinology* 1990 126:110-117

31. **Drucker D. J.**, Asa, S., Silverberg, J., and Brubaker, P.L. Molecular and cellular analysis of a neoplastic pancreatic A cell tumor. *Cancer* 1990 65:1762-1770

32. Rosen C. F., Gajic, D. and **Drucker D. J.** Ultraviolet B induction of ornithine decarboxylase gene expression. *Cancer Res* 1990, 50: 2631-5

33. Lee Y. C. and **Drucker D. J.** Glucagon gene 3'-flanking sequences direct formation of proglucagon mRNA 3'-ends in islet and non-islet cell lines. *Molecular Endocrinology* 1990, 4:800-806

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