#### **CURRICULUM VITAE**

## BORIS DRAZNIN, M.D., Ph.D.

**Present Position**: Director, Adult Diabetes Program

Celeste & Jack Grynberg Professor of Medicine

University of Colorado Denver

Mailing Address: Division of Endocrinology, Metabolism and Diabetes

University of Colorado Denver, School of Medicine

Anschutz Medical Campus MS 8106

PO Box 6511

12801 East 17th Ave, RC 1 South Rm 7105

Aurora, CO 80045 303-724-2605 Fax 303-724- 3920

## **Education and Qualifications:**

Minsk State Medical Institution, USSR	1962-1968
M.D.	1968
Ph.D.	1972
ECFMG	1975
FLEX	1977
Boards: ABIM	1980
Subspecialty: Endo/Metab	1983

**Licensure**: Colorado from 1980

#### Awards:

Mayo Soley Award from WSCI	2006
Father of the Year	2003
Brody Memorial Lectureship at Cedars-Sinai Medical Center	1997
Robert H. Williams/Rachmiel Levin Award	1998
Clinical Investigator, Veterans Administration	1984-1987
Research Associate Award, Veterans Administration	1980-1983
Honor Stipend, Minsk State Medical Institute	1966-1968
Student Research Award, Minsk State Medical Institute	1963-1965

# **Professional Training and Experience:**

Internship - Medicine, Molodechno Municipal Hospital 1968-1969

Residency - Medicine and Endocrinology,	
Minsk Regional Hospital, USSR	1969-1971
Ichilov Municipal Hospital, Tel Aviv Medical Center, Israel	1974-1976
Fellowship - Endocrinology, University of Colorado Health Sciences	1977-1980
Assistant Professor, Department of Medicine,	
University of Colorado Health Sciences Center	1980-1985
Associate Professor, Department of Medicine,	
University of Colorado Health Sciences Center	1985-1991
Professor of Medicine, University of Colorado Health Sciences Center	1991-Present
Clinical Appointments:	
Staff Endocrinologist, Minsk Regional Hospital, Minsk, USSR	1971-1973
Veterans Administration Medical Center, Denver, Colorado	
1980-Present	1000 5
University Hospital, Denver, Colorado	1980-Present
Research Appointments:	
Research Associate, Laboratory of Endocrine,	
Biochemistry, and Physiology, Minsk, USSR	1971-1973
Research Associate, Laboratory of Radioimmunology,	17/1-17/3
Tel Aviv Medical Center, Israel	1974-1975
Research Associate, Division of Endocrinology,	17/4-17/3
University of Colorado Health Sciences Center, Denver, Colorado	1977-1980
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Associations and Societies:	
Association of American Physicians	
American Society for Clinical Investigation	
American Diabetes Association	
American Federation for Clinical Research	
The Endocrine Society	
European Association for Study of Diabetes	
American Physiological Society	
American Society for Cell Biology	
Western Society for Clinical Research	
Western Association of Physicians	
Fellow American College of Physicians	
Administrative Appointment:	
Director, Adult Diabetes Program,	
University of Colorado Denver	2008 - present
Associate Chief of Staff for Research and Development	2000 present
Veterans Affairs Medical Center, Denver, CO	1997-2008
Chief, Section of Endocrinology, Veterans Affairs Medical Center	1985-1997
Acting Associate Chief of Staff for Research and Development,	1705-1771
Veterans Affairs Medical Center, Denver, CO	1990-1991
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A. <u>University of Colorado Health Sciences Center (UCHSC)</u>:

### 1992-1997

1982-1984

1985-1988

1985-1995 1986-1988

1988-1990

# COMMITTEES, EDITORIAL AND REVIEW BOARDS

### **Committees:**

C. Colorado Affiliate, ADA:

Chairman, Patient Education Committee

Denver Chapter

**Board Member** 

Vice-President President

D. II. MONGO D. II. G	1004 1005
President, USHSC Faculty Senate	1994-1995
Co-Chairman, Student Research Committee, Department of Medicine	1984-1985
Co-Chairman, Academic-Industrial Relations Committee	1990-1995
Department of Medicine Space Committee	1990-1992
Associate Professor Promotion Committee	1989-1992
Medical School Admission Committee	1991-1996
UCHSC Faculty Senate	1990-1994
UCHSC Faculty Council	1990-1993
Chairman, Budget Committee, UCHSC Faculty Council	1991-1992
Chairman, UCHSC Faculty Council	1992-1993
Chairman, Associate Professor Promotion Committee,	
Department of Medicine, UCHSC	1992-1997
Chairman, School of Medicine Rules Committee	1992-2000
Steering Committee, University Scientists, Inc.	1994-1998
Executive Committee, University of Colorado School of Medicine	1994-1995
Chair, Search Committee for the Associate Dean for Admissions	2002
Member, Research Oversight Committee	2004-2009
Chair, Student Research Committee, School of Medicine	2005-2009
Member, Post-tenure committee, DOM	2008-present
Chair, mid-term Assistant Professor Evaluation Committee, DOM	1998-present
Member, DOM ASCI and AAP nomination committee	2011-present
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B. <u>VA Medical Center (VAMC)</u> :	
Acting Chief of Staff	2000
Acting Associate Chief of Staff for Research & Development	1990-1991
President, Biomedical Research Foundation of Colorado	1986-1991
Chairman, Research & Development Committee	1987-1989
Chairman, Space & Resources Subcommittee	1987-1988
Chairman, Denver Research Institute	2000-2008
Board Member, Denver Research Institute	2008-present
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Chairman, Nominating Committee	1990-1991
Member, Fund Raising Committee	1990-1993
D. National American Diabetes Association:	
Member, Committee on Scientific and Medical Programs	1987-1989
Task Force II	1989-1990
Board Member	1990-1993
Task Force on Regionalization	1990-1991
Member, Committee on Affiliate Associations	1990-1991
Member, Task Force on Regionalization	1990-1991
Chair, Task Force on the Promotion of Health	
Sciences and Research to Young People	1991-1992
Class Chair, Partners for a Cure	1991-1992
Program Chair, Southwest Region	1992-1993
Co-Chair, Task Force on Resource Allocation	1992-1993
E. Professional Society Leadership Positions:	1000 1001
Chair, Professional Section Advisory Panel, ADA	1993-1994
President-elect, Western Association of Physicians	1993-1994
President, Western Association of Physicians	1994-1995
Editorial Boards:	1006 1000
Endocrinology	1986-1989
Diabetes Research & Clinical Practice	1990-1995
Diabetes	1991-1993
Journal of Clinical Investigation	1992-1998
Journal of Biological Chemistry	1997-2002
	2003-2005
Review Boards:	1007 1000
Endocrinology Merit Review Board, Veterans Administration	1987-1990
	2002-2004
Juvenile Diabetes Foundation Review Board	1991-1994
NIH (ad hoc)	1995-1999

Trainees who worked in my laboratory (students and fellows) alphabetically:

- 1. Aguirre, Lina, MD
- 2. Adochio, Rebecca, MD
- 3. Barbour, Linda, MD
- 3. Begum, Najma, PhD
- 4. Bolshoun, David, MD

- 5. Carel, Kirstin, MD
- 6. Chang, Larry, MD
- 7. Chappell, James, MD
- 8. De Paolo, David, MD
- 9. Dolgonos, Lior, MD
- 10. Eckel, Peter
- 11. Eisenbarth, Stephanie, MD, PhD
- 12. Goalstone, Marc, PhD
- 13. Goodman, Marc, MD
- 14. Gurevitch, Inga, MD, PhD
- 15. Houlder, Nancy, MD
- 16. Johnson, Jolene, MD
- 17. Kim, Toni, MD
- 18. Kline, Todd, MD
- 19. Lewis, David, MD
- 20. Lumerman, Jeffrey, MD
- 21. Mehler, Philip, MD
- 22. Morierty, Megan, MD
- 23. Nadeau, Kristen, MD
- 24. Pereira, Rocio, MD
- 25. Reusch, Jane, MD
- 26. Rifkin, Robert, MD
- 27. Segal, Stuart, MD
- 28. Schubert, Charles, MD
- 29. Steinberg, Jay, MD
- 30. Steiner, Claudia, MD
- 31. Stjernholm, Richard, DO
- 32. Trowbridge, Michael, MD
- 33. Vo, Yen (MD expected 2008)
- 34. Wallner, Julia, MD
- 35. Wang, Cecilia, MD
- 36. Wilk, James, MD

#### **PUBLICATIONS**

- 1. Schtochokina G, <u>Draznin B</u>: Radiological estimation of liver and renal function in diabetic patients. Ter Arch 10:69, 1971.
- 2. <u>Draznin B</u>, Ayalon D, Hoerer E, Oberman Z, Harell A, Ravid R, Laurian L: Effect of diphenylhydantoin on patterns of insulin secretion in obese patients. Acta Diabet. Lat. 14:51-61, 1977.
- 3. <u>Draznin B</u>, Schalch DS, Heinrich UE, and Schlueter RJ: Physicochemical and biological characteristics of insulin-like growth factor carrier protein. IN Somatomedins and Growth. Eds. G Giordano, JJ VanWyk, and F Minuto, Academic Press, London, New York, San Francisco, 1979, p 149-161.
- 4. Heinrich UE, <u>Draznin B</u>, Johnson CJ, Schalch DS: NSILA (Non- suppressible insulin-like activity) and fetal growth. IN Somatomedins and Growth. Eds. G Giordano, JJ VanWyk, and F Minuto, Academic Press, London, New York, San Francisco, 1979, p 239-245.
- 5. Schalch DS, Heinrich UE, <u>Draznin B</u>, Johnson CJ, Miller LL: Role of the liver in regulating somatomedin activity: Hormonal effects on the synthesis and release of insulin-like growth factor and its carrier protein by the isolated perfused rat liver. Endocrinology 104:1143-1151, 1979.
- 6. Burstein PJ, <u>Draznin B</u>, Johnson CJ, Schalch DS: The effect of hypothyroidism on growth, serum growth hormone, the growth hormone-dependent somatomedin, insulin-like growth factor, and its carrier protein in rats. Endocrinology 104:1107-1111, 1979.
- 7. <u>Draznin B</u>, Morris HG, Burstein PJ, and Schalch DS: Serum growth hormone, somatomedin and its carrier protein in the rat: Influence of age, sex and pregnancy. Proceedings of the Society for Experimental Biology and Medicine 162:131-138, 1979.
- 8. <u>Draznin B</u>, Maman A: Estrogen-induced galactorrhea in man. Arch Intern Med 139:1059-1060, 1979.
- 9. <u>Draznin B</u>, Burstein PJ, Heinrich UE, Johnson CB, Emler CA, Schalch DS: Insulin-like growth factor and its carrier protein in hypopituitary and hypothyroid children and adults. Clinical Endocrinology (Oxf) 12:137-142, 1980.
- 10. <u>Draznin B</u>, Solomons CC, Emler CA, Schalch DS, and Sussman KE: Decreased insulin binding and degradation associated with depressed intracellular ATP content. Diabetes 29:221-226, 1980.

- 11. Schalch DS, Mauer K, <u>Draznin B</u>, Emler CA, Miller LL: Regulation of somatomedin biosynthesis. IN Growth hormone and other biologically active peptides. Eds. A Pecile and EE Muller. Excerpta Medica, Amsterdam-Oxford-Princeton, 1980, p 144-160.
- 12. <u>Draznin B</u>, Solomons CC, Toothaker DR, Sussman KE: Energy- dependent steps in insulin-hepatocyte interaction. Endocrinology 108:8-17, 1981.
- 13. Miller LL, Schalch DS, <u>Draznin B</u>: Role of the liver in regulating somatomedin activity: Effects of streptozotocin diabetes and starvation on the synthesis and release of insulin-like growth factor and its carrier protein by the isolated perfused rat liver. Endocrinology 108:1265-1271, 1981.
- 14. Schalch DS, Burstein PJ, Tewel SJ, <u>Draznin B</u>, Emler CA: The effect of renal impairment on growth in the rat: Relationship to malnutrition and serum somatomedin levels. Endocrinology 108:1683-1689, 1981.
- 15. <u>Draznin B</u>, Todd WW, Leitner JW, Toothaker DR: Lysosomal and non-lysosomal pathways of intracellular insulin degradation in isolated rat hepatocytes. Hormone Research 15:252-262, 1981.
- 16. Sussman KE, Mehler PS, Leitner JW, <u>Draznin B</u>: Role of the secretion vesicle in the transport of receptors: Modulation of somatostatin binding to pancreatic islets. Endocrinology 111:316-323, 1982.
- 17. <u>Draznin B</u>, Leitner JW, Sussman KE: Kinetics of somatostatin receptor migration in isolated pancreatic islets. Diabetes 31:467-469, 1982.
- 18. <u>Draznin B</u>, Trowbridge M: Inhibition of intracellular proteolysis by insulin in isolated rat hepatocytes. Journal of Biological Chemistry 257:11988-11993, 1982.
- 19. Sussman KE, <u>Draznin B</u>, Leitner JW, Mehler PS: The endocrine secretion granule revisited postulating new functions. Metabolism 31:959-967, 1982.
- 20. Trowbridge M, <u>Draznin B</u>: Effect of fasting on insulin's ability to inhibit intracellular proteolysis. Hormone & Metabolic Research 15:48-49, 1983.
- 21. Rifkin RM, Todd WW, Toothaker DR, Sussman A, Trowbridge M, <u>Draznin B</u>: Effects of in vivo and in vitro alcohol administration on insulin binding and glycogenesis in isolated rat hepatocytes. Annals of Nutrition and Metabolism 27:313-319, 1983.
- 22. Steinberg JP, Leitner JW, <u>Draznin B</u>, Sussman KE: Calmodulin and cyclic AMP: Possible different sites of action of these two regulatory agents in exocytotic hormone

- release. Diabetes 33:339-345, 1984.
- 23. <u>Draznin B</u>, Trowbridge M, Ferguson L: Quantitative studies of the rate of insulin internalization in isolated rat hepatocytes. Biochem. J. 218:307-312, 1984.
- 24. Trowbridge M, Sussman A, Ferguson L, <u>Draznin B</u>, Neufeld N, Begum N, Tepperman H, Tepperman J: Mechanisms of the fasting-induced dissociation of insulin binding from its action in isolated rat hepatocytes. Molecular and Cellular Biochemistry 62:25-36, 1984.
- 25. <u>Draznin B</u>, Mehler PS, Leitner JW, Sussman KE, Dahl R, Vatter A, Melmed S: Localization of somatostatin receptors in secretion vesicles in anterior pituitary cells and pancreatic islets. Journal of Receptor Research 5:83-103, 1985.
- 26. <u>Draznin B</u>, Steinberg JP, Goodman M, Leitner JW, Sussman KE: Control of secretion vesicle margination and lysis by glucose, IBMX and glyburide. American Journal of Physiology 248:E375-E380, 1985.
- 27. <u>Draznin B</u>, Leitner JW, Sussman KE: A unique control mechanism in the regulation of insulin secretion: Secretagogue-induced somatostatin receptor recruitment. Journal of Clinical Investigation 75:1510-1516, 1985.
- 28. <u>Draznin B</u>, Sherman N, Sussman K, Dahl R, Vatter A: Internalization and cellular processing of somatostatin in primary culture of rat anterior pituitary cells. Endocrinology 117:960-966, 1985.
- 29. <u>Draznin B</u>, Steinberg JP, Leitner JW, Sussman KE: The nature of insulin secretory defect in aging rats. Diabetes 34:1168-1173, 1985.
- 30. Trowbridge M, <u>Draznin B</u>: Insulin internalization and intracellular protein degradation: A quantitative correlation. Hormone and Metabolic Research 18:156-158, 1986.
- 31. <u>Draznin B</u>, Goodman M, Leitner JW, Sussman KE: Feedback inhibition of insulin on insulin secretion in isolated pancreatic islets. Endocrinology 118:1054-1058, 1986.
- 32. Steiner C, Dahl R, Sherman N, Trowbridge M, Vatter A, Robbins R, <u>Draznin B</u>: Somatostatin receptors are biologically active before they are inserted into the plasma membrane. Endocrinology 118:766-772, 1986.
- 33. Goodman M, Leitner JW, Sussman KE, <u>Draznin B</u>: Insulin secretion in aging: studies with sequential gating of secretion vesicle margination and lysis. Endocrinology 119:827-832, 1986.
- 34. <u>Draznin B</u>, Steiner C, Sherman N, Sussman KE: Somatostatin inhibits fusion of pituitary

- secretion vesicles with the plasma membranes. Biochemical and Biophysical Research Communications 139:673-678, 1986.
- 35. <u>Draznin B</u>, Kao M, Sussman KE: Insulin and glyburide increase cytosolic free-Ca<sup>2+</sup> concentration in isolated rat adipocytes. Diabetes 36:174-178, 1987.
- 36. Sussman KE, Leitner JW, <u>Draznin B</u>: Cytosolic free-calcium concentrations in normal pancreatic islet cells: Effect of secretagogues and somatostatin. Diabetes 36:571-577, 1987.
- 37. Metz SA, <u>Draznin B</u>, Sussman KE, Leitner JW: Unmasking of arachidonate-induced insulin release by removal of extracellular calcium. Biochemical and Biophysical Research Communications 142:251-258, 1987.
- 38. <u>Draznin B</u>, Metz SA, Sussman KE, Leitner JW: Measurement of cytosolic free calcium concentration in relation to insulin release in normal rat pancreatic islets. Diabetes Research and Clinical Practice 3:291-295, 1987.
- 39. <u>Draznin B</u>, Sussman K, Kao M, Lewis D, Sherman N: The existence of an optimal range of cytosolic free calcium for insulin-stimulated glucose transport in rat adipocytes. Journal of Biological Chemistry 262:14385-14388, 1987.
- 40. <u>Draznin B</u>, Dahl R, Sussman KE, Sherman NA: Morphological localization of somatostatin receptors in bovine anterior pituitary secretory vesicles. Experimental Clinical Endocrinology (Life Sci Adv) 7:199-202, 1988.
- 41. <u>Draznin B</u>, Dahl R, Sherman N, Sussman KE, Staehelin LA: Exocytosis in normal anterior pituitary cells: Quantitative correlation between growth hormone release and the morphological features of exocytosis. Journal of Clinical Investigation 81:1042-1050, 1988.
- 42. <u>Draznin B</u>, Sussman KE, Kao M, Sherman N: Relationship between cytosolic free calcium concentration and 2-deoxyglucose uptake in adipocytes isolated from 2- and 12-month-old rats. Endocrinology 122:2578-2583, 1988.
- 43. <u>Draznin B</u>, Metz SA, Sussman KE, Leitner JW: Cyclosporin-induced inhibition of insulin release: Possible role of voltage-dependent calcium transport channels. Biochemical Pharmacology 37:3941-3945, 1988.
- 44. <u>Draznin B</u>, Leitner JW, Sussman KE, Sherman NA: Insulin and glucose modulate protein kinase C activity in rat adipocytes. Biochemical and Biophysical Research Communications 156:570-575, 1988.

- 45. <u>Draznin B</u>, Sussman KE, Leitner JW, Metz SA: Glyburide increases cytosolic-free calcium concentrations in normal rat pancreatic islet cells. Metabolism 37:660-663, 1988.
- 46. <u>Draznin B</u>, Sussman KE, Eckel RH, Kao M, Yost T, Sherman NA: Possible role of cytosolic free calcium concentrations in mediating insulin resistance of obesity and hyperinsulinemia. Journal of Clinical Investigation 82:1848-1852, 1988.
- 47. <u>Draznin B</u>: Intracellular calcium, insulin secretion, and action. American Journal of Medicine 85:44-58, 1988.
- 48. <u>Draznin B</u>, Lewis D, Houlder N, Sherman N, Adamo M, Garvey WT, LeRoith D, Sussman K: Mechanism of insulin resistance induced by sustained levels of cytosolic free calcium in rat adipocytes. Endocrinology 125:2341-2349, 1989.
- 49. Wang Y, Goodman M, Lumerman J, Sussman KE, Dahl R, Lafferty KJ, <u>Draznin B</u>: In vivo administration of interleukin-1 inhibits glucose-stimulated insulin release. Diabetes Research and Clinical Practice 7:205-211, 1989.
- 50. Murakami K, Wilk J, Nishida K, Sussman KE, <u>Draznin B</u>: Hep-G2 glucose transporter gene polymorphism in Caucasian, Black, Hispanic and Japanese patients with NIDDM. Diabetes Research and Clinical Practice 9:115-121, 1990.
- 51. Segal S, Lloyd S, Sherman N, Sussman K, <u>Draznin B</u>: Postprandial changes in cytosolic free calcium and glucose uptake in adipocytes in obesity and non-insulin-dependent diabetes mellitus. Hormone Research 34:39-44, 1990.
- 52. <u>Draznin B</u>: Cytosolic calcium: a new factor in insulin resistance? Diabetes Research and Clinical Practice 11:141-146, 1991.
- 53. Begum N, Sussman KE, <u>Draznin B</u>: High levels of cytosolic free calcium inhibit dephosphorylation of insulin receptor and glycogen synthase. Cell Calcium 12:423-430, 1991.
- 54. Begum N, Sussman KE, <u>Draznin B</u>: Differential effects of diabetes on adipocyte and liver phosphotyrosine and phosphoserine phosphatase activities. Diabetes 40:1620-1629, 1991.
- 55. Reusch JE-B, Begum N, Sussman KE, <u>Draznin B</u>: Regulation of GLUT-4 phosphorylation by intracellular calcium in adipocytes. Endocrinology 129:3269-3273, 1991.
- 56. <u>Draznin B</u>, Reusch J, Begum N, Sussman K, Byyny R, Ohara T: Calcium, insulin action

- and insulin resistance. Excerpta Medica, International Congress Series 980, (eds Smith U, Bruun NE, Hedner T, Hokfelt B), Elsevier Publishers 980:225-245, 1991.
- 57. Ohara T, Sussman KE, <u>Draznin B</u>: Effect of diabetes on cytosolic free Ca<sup>2+</sup> and Na<sup>+</sup>-K<sup>+</sup>-ATPase in rat aorta. Diabetes 40:1560-1563, 1991.
- 58. Metz S, Holmes D, Robertson RP, Leitner W, <u>Draznin B</u>: Gene expression of type I phospholipase A<sub>2</sub> in pancreatic beta cells: Regulation of mRNA levels by starvation or glucose excess. FEBS Letters 295:110-112, 1991.
- 59. Nishida K, Ohara T, Johnson J, Wallner JS, Wilk J, Sherman N, Kawakami K, Sussman KE, <u>Draznin B</u>: Na<sup>+</sup>/K<sup>+</sup>-ATPase activity and its £II subunit gene expression in rat skeletal muscle: Influence of diabetes, fasting, and refeeding. Metabolism 41:56-63, 1992.
- 60. Begum N, Graham AL, Sussman KE, <u>Draznin B</u>: Role of cAMP in mediating effects of fasting on dephosphorylation of insulin receptor. American Journal of Physiology 262:E142-E149, 1992.
- 61. Begum N, Sussman KE, <u>Draznin B</u>: Calcium-induced inhibition of phosphoserine phosphatase in insulin target cells is mediated by the phosphorylation and activation of inhibitor 1. Journal of Biological Chemistry 267:5959-5963, 1992.
- 62. Byyny RL, LoVerde M, Lloyd S, Mitchell W, <u>Draznin B</u>: Cytosolic calcium and insulin resistance in elderly patients with essential hypertension. American Journal of Hypertension 5:459-464, 1992.
- 63. Begum N, <u>Draznin B</u>: Effect of streptozotocin-induced diabetes on GLUT-4 phosphorylation in rat adipocytes. Journal of Clinical Investigation 90:1254-1262, 1992.
- 64. Reusch JE-B, Sussman KE, <u>Draznin B</u>: Inverse relationship between GLUT-4 phosphorylation and its intrinsic activity. Journal of Biological Chemistry 268:3348-3351, 1993.
- 65. Begum N, Leitner W, Reusch JE-B, Sussman KE, <u>Draznin B</u>: GLUT-4 phosphorylation and its intrinsic activity: Mechanism of Ca<sup>2+</sup>-induced inhibition of insulin-stimulated glucose transport. Journal of Biological Chemistry 268:3352-3356, 1993.
- 66. Begum N, Olefsky JM, <u>Draznin B</u>: Mechanism of impaired metabolic signaling by a truncated human insulin receptor: Decreased activation of protein phosphatase 1 by insulin. Journal of Biological Chemistry 268:7917-7922, 1993.
- 67. <u>Draznin B</u>: Cytosolic calcium and insulin resistance. American Journal of Kidney

- Diseases 21:32-38, 1993.
- 68. <u>Draznin B</u>, Chang L, Leitner JW, Takata Y, Olefsky JM: Insulin activates p21Ras and guanine nucleotide releasing factor in cells expressing wild type and mutant insulin receptors. Journal of Biological Chemistry 268:19998-20001, 1993.
- 69. Begum N, Robinson LJ, <u>Draznin B</u>, Heidenreich KA: Protein phosphatase-1 and -2a activities in cultured fetal chick neurons: Differential regulation by insulin and insulinlike growth factor-I. Endocrinology 133:2085-2090, 1993.
- 70. Jhun BH, Meinkoth JL, Leitner JW, <u>Draznin B</u>, Olefsky JM: Insulin and insulin-like growth factor-I signal transduction requires p21<sup>ras</sup>. Journal of Biological Chemistry 269:5699-5704, 1994.
- 71. Sasaoka T, <u>Draznin B</u>, Leitner JW, Langlois WJ, Olefsky JM: Shc is the predominant signaling molecule coupling insulin receptors to activation of guanine nucleotide releasing factor and p21<sup>ras</sup>-GTP formation. Journal of Biological Chemistry 269:10734-10738, 1994.
- 72. Sasaoka T, Rose DW, Jhun BH, Saltiel AR, <u>Draznin B</u>, Olefsky JM: Evidence for a functional role of Shc proteins in mitogenic signaling induced by insulin, insulin-like growth factor-1, and epidermal growth factor. Journal of Biological Chemistry 269:13689-13694, 1994.
- 73. Reusch JE-B, Begum N, <u>Draznin B</u>: Cytosolic calcium as an intracellular mediator of insulin resistance. Cardiovascular Risk Factors 3:1-8, 1994.
- 74. Langlois WJ, Medh J, Leitner JW, Sasaoka T, Olefsky JM, <u>Draznin B</u>: Insulin and epidermal growth factor influence guanine nucleotide-releasing factor by distinct mechanisms. Endocrinology 135:2412-2417, 1994.
- 75. Reusch JE-B, Hsieh P, Klemm D, Hoeffler J, <u>Draznin B</u>: Insulin inhibits dephosphorylation of adenosine 3',5'-monophosphate response element-binding protein/activating transcription factor-1: Effect on nuclear phosphoserine phosphatase-2a. Endocrinology 135:2418-2422, 1994.
- 76. Robinson LJ, Leitner W, <u>Draznin B</u>, Heidenreich KA: Evidence that p21Ras mediates the neurotropic effects of insulin and insulin-like growth factor I in chick forebrain neurons. Endocrinology 135:2568-2573, 1994.
- 77. Sasaoka T, Langlois WJ, Leitner JW, <u>Draznin B</u>, Olefsky JM: The signaling pathway coupling epidermal growth factor receptors to activation of p21Ras. Journal of

- Biological Chemistry 269:32621-32625, 1994.
- 78. Reusch JE-B, Bhuripanyo P, Carel K, Leitner JW, Hsieh P, DePaolo D, <u>Draznin B</u>: Differential requirement for p21Ras activation in the metabolic signaling by insulin. Journal of Biological Chemistry 270:2036-2040, 1995.
- 79. Reusch JE-B, Hsieh P, Bhuripanyo P, Carel K, Leitner JW, Olefsky JM, <u>Draznin B</u>: Insulin inhibits nuclear phosphatase activity: Requirement for the C-terminal domain of the insulin receptor. Endocrinology 136:2464-2469, 1995.
- 80. Jhun BH, Haruta T, Meinkoth JL, Leitner JW, <u>Draznin B</u>, Saltiel AR, Pang L, Sasaoka T, Olefsky JM: Signal transduction pathways leading to insulin-induced early gene induction. Biochemistry 34:7996-8004, 1995.
- 81. Langlois J, Leitner JW, Medh J, Sasaoka T, Olefsky JM, <u>Draznin B</u>: Mechanism of activation of guanine nucleotide exchange factor by insulin. Endocrine 3:475-479, 1995.
- 82. DePaolo D, Reusch JE-B, Carel K, Bhuripanyo P, Leitner JW, <u>Draznin B</u>: Functional interactions of phosphatidylinositol 3-kinase with GTPase-activating protein in 3T3-L1 adipocytes. Molecular & Cellular Biology 16:1450-1457, 1996.
- 83. Sasaoka T, Langlois WJ, Bai F, Rose DW, Leitner JW, Decker SJ, Saltiel AR, Gill GN, Kobayashi M, <u>Draznin B</u>, Olefsky JM: Involvement of ErbB2 in the signaling pathway leading to cell cycle progression from a truncated epidermal growth factor receptor lacking the C-terminal autophosphorylation sites. Journal of Biological Chemistry 271:8338-8344, 1996.
- 84. <u>Draznin B</u>: Academic medicine is ill: Diagnosis and prognosis. Academic Medicine 71:314-316, 1996.
- 85. Carel K, DePaolo D, Reusch JE-B, Leitner JW, <u>Draznin B</u>: Reduced phosphorylation of mitogen-activated protein kinase kinase in response to insulin in cells with truncated C-terminal domain of insulin receptor. Endocrinology 137:2362-2366, 1996.
- 86. Schubert C, Carel K, DePaolo D, Leitner W, <u>Draznin B</u>: Interactions of protein kinase C with insulin signaling: Influence on GAP and Sos activities. Journal of Biological Chemistry 271:15311-15314, 1996.
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