

## **GIL LEIBOWITZ (LEV)**

### **Gil Leibowitz (Lev), M.D.**

#### **Curriculum Vitae**

**Name:** Gil Leibowitz (Lev)  
**Date of birth:** March 27, 1962  
**Place of birth:** Haifa, Israel  
**Family status:** Married + 3 children  
**Home address:** 6 Sapir street, Reut-Maccabim, Israel 71908  
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#### **Education and Positions Held:**

1998-present	Attending physician in the Department of Endocrinology & Metabolism in Hadassah University Hospital, Jerusalem
1997-1998	Postgraduate researcher in the Center for Molecular Genetics, Department of Pediatrics, UCSD
1995-1997	Attending physician in the Department of Endocrinology & Metabolism in Hadassah University Hospital, Jerusalem
1993-1995	Resident in the Department of Endocrinology & Metabolism, Hadassah University Hospital, Jerusalem
1989-1993	Resident in the Internal Medicine Department, Hadassah University Hospital
1988-1989	Internship at Hadassah University Hospital
1982-1988	Medical studies at the Hebrew University-Hadassah Medical School

#### **Academic Appointments**

2008	Associate professor
2003-2007	Senior Lecturer
1997-2002	Lecturer
1991-1994	Instructor

## PUBLICATIONS

1. Glaser B, **Leibovich G**, Neshet R, Hartling S, Binder C and Cerasi E. Improved  $\beta$ -cell function after intensive insulin treatment in severe non-insulin dependent diabetes. *Acta Endocrinologica* 1988; 118:365-373.
1. **Leibowitz G**, Golan D, Jeshurun D, Brezis M. Mononeuritis multiplex associated with prolonged vancomycin treatment. *BMJ* 1990; 300:1344.
2. **Leibovitch G**, Maaravi Y, Shalev O. Multiple brain abscesses caused by *Streptococcus bovis*. *J Infect.* 1991 23:195-6.
3. **Leibovitch G**, Oren A, Melmed RN, Brezis M. Vocal cord dysfunction mimicking bronchial asthma. *Hrefuah* 1991; 17:49-51 (in Hebrew).
4. Mevorach D, **Leibowitz G**, Brezis M, Raz E. Induction of remission in a patient with Takayasu's arteritis by low dose pulses of methotrexate. *Ann Rheum Dis* 1992; 51:904-5.
5. Maaravi Y, Wengrover D, **Leibowitz G**. A unique presentation of lymphoma of the colon. *J Clin Gastroenterol* 1993; 17:49-51.
6. **Leibowitz G**, Amir G, Lossos SI, Eliakim R. Autoimmune polyglandular failure associated with exocrine pancreatic insufficiency and gastric carcinoid tumor. *J Int Med* 1993; 234:625-629.
7. **Leibowitz G**, Eliakim R, Rachmilewitz D. Dermatomyositis associated with Crohn's disease. *J Clin Gastroenterol* 1994; 18:48-52.
8. Shalev O, **Leibowitz G**, Bruck-Simoni F. Glucose phosphate isomerase deficiency with congenital nonspherocytic hemolytic anemia. *Harefuah* 1994; 126: 699-702 (in Hebrew).
9. **Leibowitz G**, Salameh M, Gomori MJ, Reubinoff CA, Rosler A, Gross DJ. Thrombasthenia - a rare cause of Sheehan's syndrome. *Acta Obstet Gynecol Scand* 1995; 74:482-484.
10. Lossos IS, Berger S, Gomori M, **Leibovich G**, Matzner Y. Hearing loss and leukocytosis. *Postgrad Med J* 1996; 72:183-5. (0.722; 43/60; 0)
11. Tsur A, **Leibowitz G**, Samueloff A, Gross DJ. Uncomplicated pregnancy with lymphocytic hypophysitis. *Acta Obstet Gynecol Scand* 1996; 75:772-774. (1.028; 26/57; 3; 3)
12. **Leibowitz G**, White A, Hadani M, Gross DJ. Cyclic hypercortisolemia in a patient with invasive pituitary tumor: a unique variant of Cushing's syndrome. *Clinical Endocrinology* 1996; 44:717-722. (2.922; 23/89; 13; 13)

13. **Leibovitch G**, Maaravi Y, Shalev O. Severe facial oedema and glossitis associated with mianserin. *Lancet* 1989; 2(8667):871-872.
14. **Leibowitz G**, Golan D, Jeshurun D, Brezis M. Leukopenia and thrombocytopenia due to fusidic acid. *Postgrad Med J* 1991; 67:591-2.
15. **Leibowitz G**, Bursztyn M. Left ventricular hypertrophy in diabetic patients. *Arch Int Med* 1993; 153:125-126.
16. Glaser B, **Leibovitch G**, Neshet R and Cerasi E. Does insulin resistance present a significant problem in type 2 diabetes? *Harefuah* 1986; 111:330-333 (in Hebrew).
17. **Leibowitz G**, Ben Yehuda A, Naparstek Y. Role of plasmapheresis in the treatment of systemic lupus erythematosus. *Harefuah* 1990; 118:329-33 (in Hebrew).
18. **Leibowitz G**, Cerasi E. Sulfonylurea treatment of NIDDM patients with cardiovascular disease: a mixed blessing? *Diabetologia* 1996; 39:503-514.
19. Levine F, **Leibowitz G**. Towards gene therapy of diabetes mellitus. *Mol Med Today* 1999; 5:165-171. (5.193; 50/310; 24/147; 6/74; 7; 7)
20. **Leibowitz G**, Levine F. Gene therapy for type 1 and type 2 diabetes. *Diabetes Reviews* 1999; 7:124-138. (1.886; 45/89; 2; 2)
21. Cerasi E, Kaiser N, **Leibowitz G**. Type 2 diabetes and  $\beta$ -cell apoptosis. *Diabetes Metab* 2000; 26(Suppl 3):13-6 (in French). (1.464; 52/89; 1; 1)
22. Kaiser N, Neshet R, Yuli M, Donath MY, Cerasi E, Gross DJ, **Leibowitz G**. Nutritional modulation of  $\beta$ -Cell function in the *Psammomys obesus* model of Type 2 Diabetes (in press)
23. Kaiser N, **Leibowitz G**, Neshet R. Glucotoxicity and  $\beta$ -cell failure in type 2 diabetes. *J Ped Endocrinol Metab* 2003; 16:5-22
24. Gadot M, **Leibowitz G**, Shafrir E, Cerasi E, Gross DJ, and Kaiser N. Hyperproinsulinemia and insulin deficiency in the diabetic *Psammomys obesus*. *Endocrinology* 1994; 135:610-616.
25. **Leibowitz G**, Shapiro M, Salameh M, Glaser B. Improvement of sleep apnea due to acromegaly after short-term treatment with octreotide. *J Int Med*, 1994; 236: 231-235.
26. **Leibowitz G**, Glaser B, Higazi AA, Salameh M, Cerasi E, Landau H. Hyperinsulinemic hypoglycemia of infancy (nesidioblastosis) in clinical remission: high incidence of diabetes mellitus and persistent  $\beta$ -cell dysfunction at long-term follow-up. *J Clin Endocrinol Metab* 1995; 80:386-392.

27. **Leibowitz G**, Tsur A, Chayen S, Salameh M, Raz I, Cerasi E, Gross DJ. Pre-clinical Cushing's syndrome: an unexpected frequent cause of poor glycaemic control in obese diabetic patients. *Clinical Endocrinology* 1996; 44: 717-722. (2.922; 23/89; 13; 13)
28. **Leibowitz G**, Weintrob N, Pikarsky A, Josefsberg Z, Landau H, Glaser B, Hales CN, Cerasi E. Normal proinsulin processing despite  $\beta$ -cell dysfunction in persistent hyperinsulinaemic hypoglycemia of infancy (nesidioblastosis). *Diabetologia* 1996; 39:1338-1344. (5.721; 7/89; 4; 4)
29. Gross DJ, **Leibowitz G**, Cerasi E, Kaiser N. Increased susceptibility of islets from diabetes-prone *Psammomys obesus* to the deleterious effects of chronic glucose exposure. *Endocrinology* 1996; 137:5610-5615. (4.79; 13/89; 19; 16)
30. Bar M, Friedman E, Jakobovitz O, **Leibowitz G**, Lerer I, Abeliovich D, Gross DJ. Sporadic pheochromocytomas are rarely associated with germline mutations in the von Hippel-Lindau and RET genes. *Clinical Endocrinology* 1997; 47:707-712. (2.922; 23/89; 14; 14)
31. Kaiser N, Gadot M, Leibowitz G, Cerasi E, Gross DJ. Hyperproinsulinaemia and islet dysfunction in the NIDDM-like syndrome of *Psammomys obesus*. *Adv Exp Med Biol* 426:371-8, 1997
32. Kang DE, Soriano S, Frosch MP, Collins T, Naruse S, Sisodia SS, **Leibowitz G**, Levine F, Koo EH. Presenilin 1 facilitates the constitutive turnover of beta-catenin-signaling pathway. *J Neurosci* 1999; 19:4229-4237. (8.502; 10/89; 39; 39)
33. **Leibowitz G**, Beattie GM, Kafri T, Cirulli V, Lopez AD, Hayek A, Levine F. Gene transfer to human pancreatic endocrine cells using viral vectors. *Diabetes* 1999; 48:745-753. (7.715; 3/89; 21; 21)
34. Beattie GM, Itkin-Ansari P, Cirulli V, **Leibowitz G**, Lopez AD, Bossie S, Mally M, Levine F, Hayek A. Sustained proliferation of PDX-1+ cells derived from human islets. *Diabetes* 1999; 48:1013-1019. (7.715; 3/89; 17; 17)
35. Halvorsen T, **Leibowitz G**, Levine F. Telomerase activity is sufficient to allow transformed cells to escape from crisis. *Mol Cell Biol* 1999; 19: 1864-1870. (9.666; 17/89; 14/147; 31; 31)
36. Marshak S\*, **Leibowitz G\***, Bertuzzi F, Socci C, Kaiser N, Gross DJ, Cerasi E, Melloul D. Impaired  $\beta$ -cell functions induced by chronic exposure of cultured human pancreatic islets to high glucose. *Diabetes* 1999; 48:1230-1236. (M.S and L.G contributed equally to this work). (7.715; 3/89; 12; 10)
37. Beattie GM, **Leibowitz G**, Lopez AD, Levine F, Hayek A. Protection from cell death in cultured human fetal pancreatic cells. *Cell Transplantation*

2000, 9:431-438. (2.959; 3/16; 49/147; 1; 1)

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39. **Leibowitz G**, Ferber S, Aperlqvist A, Edlund H, Gross DJ, Cerasi E, Melloul D, Kaiser N.  $\beta$ -cell dysfunction due to lack of IPF1/PDX1 in *Psammomys obesus*, an animal model with diet-dependent type 2 diabetes. *Diabetes* 2001, 50:1799-1806. (7.715; 3/89; 0)

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41. **Leibowitz G**, Uckaya G, Oprescu A, Cerasi E, Gross DJ, Kaiser N. Glucose-regulated proinsulin gene expression is required for adequate insulin production during chronic glucose exposure. *Endocrinology* 2002, 143: 3214-3220

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45. **Leibowitz G**, Khaldi MZ, Shauer A, Oprescu A, Cerasi E, Jonas JC, Kaiser N. Mitochondrial Regulation of insulin production in pancreatic islets *Diabetologia*, 48: 1549-1559, 2005

46. Attali V, Parnes M, Ariav Y, Cerasi E, Kaiser N, **Leibowitz G**. Regulation of insulin secretion and proinsulin biosynthesis by succinate. *Endocrinology*, 147:5110-82006, 2006.

47. Elinav H, Wolf Z, Shalit O, Glaser B, Raz I, **Leibowitz G**. Inhospital Treatment of Hyperglycemia: Effects of intensified insulin treatment. *Current Medical Research and Opinion*, 23:757-765, 2007

48. Vinokour V, **Leibowitz G**, Bernstein E, Chevion M. Can preconditioning protect the diabetic heart from ischemic damage? *Redox report* 12:246-256, 2007 (VV and LG contributed equally to this

manuscript)

49. Fraenkel M, Ketzinel-Gilad M, Ariav Y, Pappo O, Karaca M, Castel J, Berthault M-F, Magnan C, Cerasi E, Kaiser N, **Leibowitz G**. mTOR inhibition prevents  $\beta$ -cell adaptation to hyperglycemia and exacerbates the metabolic state in Type 2 diabetes. *Diabetes* 57:945-57, 2008.

50. Fraenkel M, Weiss R, Behar V, Golomb E, **Leibowitz G**, Kaiser N. Differences in content and morphology of intramyocellular lipids in diabetes resistant and prone lineages of *Psammomys obesus*. *Obesity* 16:695-9, 2008.

51. **Leibowitz G**, Cerasi E, Ketzinel-Gilad M. The role of mTOR in the adaptation and failure of  $\beta$ -cells in type 2 diabetes. *Diabetes Obesity and Metabolism* (in press).

52. Kaiser N, **Leibowitz G**. Failure of  $\beta$ -cell adaptation in type 2 diabetes: Lessons from humans and animal models. *Frontiers in Biosciences* (in press).