

PERSONAL INFORMATION



First name, Surname	Livio, Luzi
E-mail	livio.luzi@unimi.it
Citizenship	Italian
Date of birth	4 February, 1957
Gender	M
H-INDEX	44
N° CITAZIONI	6182

POSITION
QUALIFICATION Endocrinologist, University Professor

WORK EXPERIENCE

- 2013-today Director, Endocrinology and Metabolic Diseases Area, Policlinico San Donato, IRCCS
- 2011-today Director, Metabolism Research Center, Policlinico San Donato, IRCCS
- 2007-2010 Dean, Faculty of Exercise Sciences, University of Milan
- 2005-today Full Professor of Endocrinology, University of Milan
- 2005-2012 Adjunct Professor, Leonard M. Miller School of Medicine, University of Miami, USA
- 2002-today Full Professor of Physiology, University of Milan
- 1993-1996 Assistant Professor of Medicine, Harvard Medical School, Boston MA, USA
- 1994-1996 Associate Physician, Brigham and Women's Hospital, Boston, MA, USA
- 1990 Graduate Technician, University of Milan

- 1986 Researcher, San Raffaele Foundation, Milan
- 1983 Medical Lieutenant, Milan Military Hospital

EDUCATION AND TRAINING

- 2000 Advanced course in Economics and Management of Health Services, University of Milan
- 1993 E.C.F.M.G. certificate, Philadelphia, PA, USA
- 1994 Medical Licence, Commonwealth of Massachusetts
- 1984-1988 Research Fellowship, Endocrine Division, Yale University School of Medicine, New Haven, CT, USA
- 1986 Diplomat, Specialization in Internal Medicine, University of Milan
- 1981 Diplomat, Laurea in Medicina e Chirurgia, University of Milan

Previous positions

- 2009-2013 PhD Program Director in Sport Sciences, University of Milan
- 1997 Aiuto Ospedaliero, Medicine, San Raffaele Hospital, Milan
- 2001-2010 Director, Program of Nutrition-Metabolism, San Raffaele Scientific Institute and Hospital

Patents

“Therapeutic use of Conglutin-γ“ San Raffaele Hospital Foundation. Inventors: Livio Luzi et al.

PERSONAL SKILLS

Mother tongue Italian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages²

1993 - Morgagni Prize, Young Investigator Award

1994 - Research Grant Award, Juvenile Diabetes Foundation International

1997 - Expert Member, External Monitoring Group of the medical research program BIOMED 2 (1994- 1998) of the European Commission

2001 - Italian Society of Diabetes Award

2002 - Member of the Commission of selection of research projects "Quality of Life and Management of Living Resources" of the European Community

2003 - President, Consortium for Research, Prevention and Treatment of Endocrine and Metabolic Diseases, Milan, Italy.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Advanced	Advanced	Advanced	Advanced	Advanced

Levels: Basic user - Independent user - Proficient user
 Digital competences - Self-assessment grid

Driving licence A, B

ADDITIONAL INFORMATION

2012 - Editor in Chief, Sport Sciences for Health, Springer International

2013 - Editorial Board J Endocrinol Investigation

2001-2006 - Editorial Board, Amer J Physiol-Endocrinology & Metabolism

2000-2006 - Managing Editor, Acta Diabetologica, Springer International

Publications

1.Ripamonti M, Mosca A, Rovida E, Luzzana M, Luzi L, Ceriotti F, Cottini F, Rossi-Bernardi L. Urea creatinine and glucose determined in plasma and whole blood by a differential-pH technique. Clinical Chemistry 1984; 30(4):556-559.

2.Groop L, Luzi L, Melander A, Groop-PH, Rathelser K, Simonson DC, De Fronzo RA. Different effects of glyburide and gipizide on insulin secretion and hepatic glucose production in normal and NIDD subjects. Diabetes 1987; 36:1320-1328.

3.Castellino P, Luzi L, Simonson DC, Haymond WM, De Fronzo RA. Effect of insulin and plasma amino acids concentrations on leucine metabolism in man. J Clin Invest 1987; 80:1784-1793.

4.Luzi L, Barrett E, Groop LC, Ferrannini E, De Fronzo RA. Metabolic effect of low-dose insulin

therapy on glucose metabolism in diabetic ketoacidosis. *Diabetes* 1988; 37:1470-1477.

5. Ferrannini E, Bevilacqua S, Lanzone L, Bonadonna R, Brandi L, Oleggini M, Boni C, Buzzigoli G, Clociaro D, Luzi L, De Fronzo RA. Metabolic interactions of amino acids and glucose in healthy humans. *Diabetes Nutrition and Metabolism* 1988; 3:175-186.

6. Luzi L, De Fronzo RA. Effect of the loss of first phase of insulin secretion on hepatic glucose production and tissue glucose disposal in humans. *Am J Physiol* 1989; 257:E241-E246.

7. Groop LC, Luzi L, De Fronzo RA, Melander A. Hyperglycemia and absorption of sulphonylurea drugs. *Lancet* 1989; 2:129-130.

8. Luzi L, Castellino P, Simonson DC, Petrides AS, De Fronzo RA. Leucine metabolism in insulin-dependent diabetes mellitus: role of insulin and substrate availability. *Diabetes* 1990; 39:38-48.

9. Castellino P, Luzi L, Del Prato S, De Fronzo RA. Dissociation of the effects of epinephrine and insulin on glucose and protein metabolism. *Am J Physiol* 1990; 258:E117-E125.

10. Luzi L, Ripamonti M, Marconi C, Cazzola E, Mosca A. Whole blood L-lactate assay by a new differential pH-method; application to metabolic investigation. *Acta Diabetologica Latina* 1990; 27(2): 129-138.

11. Luzi L, Secchi A, Facchini F, Battezzati A, Staudacher C, Spotti D, Castoldi R, Ferrari G, Di Carlo V, Pozza G. Reduction of insulin resistance by combined kidney-pancreas transplantation in type I (insulin-dependent) diabetic patients. *Diabetologia* 1990; 33:549-556.

12. Rossi G, Luzi L, Facchini F, Battezzati A, Castiglioni MT, Natale N, Pozza G, Vignali M. Effect of excessive ponderal increment for gestational age and of gestational diabetes on substrate oxidation and energy expenditure in pregnancy. *Diabetes Nutrition Metabolism*. 1991;3(Suppl2):45-47.

13. Cobelli C, Saccomani MP, Tessari P, Biolo G, Luzi L, Matthews DE. A compartmental model of leucine kinetics in humans. *Am J Physiol* 1991; 261:E539-E550.

14. Groop LC, Barzilai N, Ratheiser K, Luzi L, Melander A, De Fronzo R. Dose-dependent effect of glibenclamide on insulin secretion and glucose uptake in man. *Diabetes Care* 1991; 14:724-727.

15. Petrides AS, Luzi L, Reuben A, Riely C, De Fronzo RA. Effect of insulin and plasma concentration on leucine metabolism in cirrhosis. *Hepatology* 1991; 14:432-441.

16. Groop LC, Ratheiser K, Luzi L, Melander A, Simonson DC, Petrides AS, Bonadonna RC, Widen E, De Fronzo RA. Effect of sulphonylurea on glucose-stimulated insulin secretion in healthy and non-insulin dependent diabetic subjects: a dose-response study. *Acta Diabetologica* 1991; 28:162-168.

17. Castellino P, Solini A, Luzi L, Grant Barr J, Smith DJ, Petrides AS, Giordano M, Carrol C, De Fronzo RA. Glucose and amino acid metabolism in patients with chronic renal failure. The effect of insulin and amino acids. *Am J Physiol* 1992, 262:F168-F176.

18. Luzi L, Battezzati A, Perseghin G, Bianchi E, Vergani S, Secchi A, La Rocca E, Staudacher C, Spotti D, Ferrari G, Di Carlo V, Pozza G. Lack of feed-back inhibition of insulin secretion in denervated human pancreas. *Diabetes* 1992; 41:1632-39.

19. Luzi L, Dozio N, Battezzati A, Perseghin G, Sarugerl E, Terruzzi I, Spotti D. Anomalous leucine metabolism in total lipathrophic diabetes: a possible mechanism of muscle mass hypertrophy. *Acta Diabetologica* 1992; 29:86-93.

20. Grimaldi LME, Luzi L, Martino G, Furlan R, Nemni R, Antonelli A, Canal N, Pozza G. Bilateral VIII cranial nerve neuropathy as initial manifestation of human immunodeficiency virus infection. *J Neurol* 1993; 240:363-366.

21. Martinenghi S, Secchi A, Luzi L, Battezzati A, Pozza G. Acute deterioration of pancreatic graft

function presumably determined by steroid-induced insulin resistance: a case report. *Transplantation* 1993; 56:1241-244.

22. Luzi L, Petrides AS, DeFronzo RA. Different sensitivity to insulin of glucose and amino acid metabolism in NIDDM. *Diabetes* 1993; 42:1868-1877.

23. Luzi L, Battezzati A, Perseghin G, Bianchi E, Terruzzi I, Spotti D, Vergani S, Secchi A, La Rocca E, Ferrari G, Staudacher C, Castoldi R, Di Carlo V, Pozza G. Combined pancreas and kidney transplantation normalizes protein metabolism in insulin-dependent diabetic-uremic patients. *J Clin Invest* 1994; 93:1948-1958.

24. Petrides AS, Luzi L, De Fronzo RA. Time-dependent regulation by insulin of leucine metabolism in young healthy adults. *Am J Physiol* 1994; 30: E361-E368.

25. Battezzati A, Luzi L, Perseghin G, Bianchi E, Spotti D, Secchi A, Vergani S, Di Carlo V, Pozza G. Persistence of counterregulatory abnormalities in insulin dependent diabetes mellitus after pancreas transplantation. *Eur J Clin Invest* 1994; 24:751-758.

26. Paleari R, Mosca A, Maccaronio A, De Bellis G, Debernardi S, Lang F, Luzi L. Hb A_{1c} [90 (F6) Glu->Lys] identified by DNA analysis. *Hemoglobin* 1994; 18:347-352.

27. Castellino P, Pluvio C, Bianchi E, Vergani S., Carone M, dePascale E, Giordano D, D'Alessio O, Luzi L. Renal hemodynamic effects of cyclosporin A treatment in patients with chronic uveitis and normal native kidneys. *Transplantation* 1994; 58:958-961.

28. Battezzati A, Terruzzi I, Perseghin G, Bianchi E, Di Carlo V, Pozza G, Luzi L. Defective insulin action on protein and glucose metabolism during chronic hyperinsulinemia in subjects with benign insulinoma. *Diabetes* 1995;44:837-844.

29. Luzi L, Castellino P, De Fronzo RA. Insulin and hyperaminoacidemia regulate by a different mechanism leucine turnover and oxidation in obesity. *Am J Physiol* 1996; 270:E273-E281.

30. Luzi L, Groop LC, Perseghin G, Taskinen M-R, Hilden H, Bianchi E, Terruzzi I, Di Carlo V, Pozza G. Effect of pancreas transplantation on free fatty acid metabolism in uremic IDDM patients. *Diabetes* 1996;45:354-360.

31. Pluvio C, dePascale E, Pluvio M, Carone M, Giordano M, Luzi L, Sabella F, Castellino P. Renal hemodynamics in renal transplant recipients. The role of reduced kidney mass and CsA administration. *Transplantation* 1996; 61:733-738.

32. Luzi L, Hering BJ, Socci C, Raptis G, Battezzati A, Terruzzi I, Falqui L, Braundhorst H, Braundhorst D, Regalia E, Brambilla E, Secchi A, Perseghin G, Maffi P, Bianchi E, Mazzaferro V, Gennari L, Di Carlo V, Federlin K, Pozza G, Bretzel R. Metabolic effects of successful intraportal islet transplantation on glucose metabolism in IDDM. *J Clin Invest* 1996; 97: 2611-2618.

33. Pullicino E, Copperstone C, Luzi L, McNeill G, Elia M. Relationship between anthropometric indices of body fat distribution and basal energy metabolism in healthy Maltese females. *Acta Diabetologica* 1996 33: 198-205.

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35. Lanzi R, Bianchi E, Andreotti AC, Manzoni MF, Luzi L, Pontiroli AE. Evidence for an inhibitory effect of physiological hyperinsulinemia on GH-RH-induced growth hormone release in healthy subjects. *J Clin Endocrinol Metabolism* 1997; 82:2239-2243.

36. Perseghin G, Regalia E, Battezzati A, Vergani S, Pulvirenti A, Terruzzi I, Baratti D, Bozzetti F, Mazzaferro V, Luzi L. Regulation of glucose homeostasis in humans with a denervated liver. *J Clin Invest* 1997; 100: 931-941.

37. Luzi L. Pancreas transplantation and diabetic complications. *N Engl J Med* 1998;339:115-117.
38. Battezzati A, Simonson DC, Luzi L, Matthews DE. Glucagon increases glutamine uptake without affecting glutamine release in humans. *Metabolism* 1998; 47: 713-723.
- 39 Perseghin G, Corno A, Santoro F, Biagioli B, Paolini G, Benedini S, Donatelli F, Battezzati A, Pozza G, Grossi A, Luzi L. Myocardial metabolism studied during warm blood antero-retrograde reperfusion in ischemic human hearts. *Acta Diabetol* 1998; 35:67-73.
40. Perseghin G, Baratti D, Benedini S, Regalia E, Mazzaferro V, Luzi L. Effect of liver transplantation in cirrhotic diabetic patients. *Transplantation Proceedings* 1998; 30(5): 1868.
41. Battezzati A, Bonfatti D, Benedini S, Calori G, Caldara R, Mazzaferro V, Elli A, Secchi A, Di Carlo V, Pozza G, Luzi L. Spontaneous hypoglycemia after pancreas transplantation in IDDM. *Diab. Med.* 1998; 15:991-996.
42. Patti M-E, Brambilla E, Luzi L, Landaker EJ, Kahn CR. Bidirectional modulation of insulin action by amino acids *J Clin Invest* 1998; 101:1519-1529.
43. Lanzi R, Luzi L, Caumo A, Andreotti AC, Manzoni MF, Malighetti ME, Piceni Sereni L, Pontiroli AE. Elevated insulin levels contribute to the reduced growth hormone (GH) response to GH-releasing hormone in obese subjects. *Metabolism*, 1999; 48(9):1152-6.
44. Fernandez LA, Lehmann R, Luzi L, Battezzati A, Angelico MC, Ricordi C, Tzakis A and Alejandro R. The effects of maintenance doses of FK506 versus Cyclosporin A on glucose and lipid metabolism after orthotopic liver transplantation. *Transplantation* 1999; 68 (10):1532-41.
45. Castellino P, Luzi L, Giordano M, De Fronzo RA. Effects of insulin and amino acids on glucose and leucine metabolism in CAPD patients. *J Am Soc Nephrol.* 1999 May;10(5):1050-
46. Perseghin G, Scifo P, De Cobelli F, Pagliato E, Battezzati A, Arcelloni C, Vanzulli A, Testolin G, Pozza G, Del Maschio A and Luzi L. Intramyocellular triglyceride content is a determinant of in vivo insulin resistance in humans: a ¹H-¹³C NMR spectroscopy assessment in offspring of type 2 diabetic parents. *Diabetes* 1999; 48: 1600-1606.
47. Zerbini G, Mangili R, Luzi L. Higher post-absorptive C-peptide levels in type 1 diabetic patients without renal complications. *Diabet.Med.* 1999 Dec; 16(12):1048.
48. Battezzati A, Pozza G, Luzi L. Is it wise to transplant a pancreas to prevent severe hypoglycaemia? *Acta Diabetol* 1999;36(1/2):1-2
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52. Malighetti ME, Berra C, Secchi A, Pozza G, Luzi L. Persistence of Anomalies in the GH-RH stimulated GH response in diabetic-uremic patients after combined kidney-pancreas transplantation. *Transplantation* 2000, 69(9):1965-1968
53. Battezzati A, Benedini S, Fattorini A, Piceni Sereni L, Luzi L. Effect of hypoglycaemia on amino acid and protein metabolism in healthy humans. *Diabetes* 2000, 49(9):1543-1551

54. Blendis L, Brill S, Oren R, Perseghin G, Mazzaferro V, Luzi L. Hepatogenous diabetes: reduced insulin sensitivity and increased awareness. *Gastroenterology* 2000, 119(6):1800-1802
55. Luzi L, Piceni Sereni L, Spessot M, Dodesini R, Pastore M.R., Bianchi E, Terruzzi I, Secchi A, Cristallo M, Pozza G, Di Carlo V. Postabsorptive muscle protein metabolism in type 1 diabetic patients after pancreas transplantation. *Acta Diabetologica* 2000, 37(4):219-224
56. Luzi L, Regalia E, Pulvirenti A, Piceni Sereni L, Spessot M, Romito R, Baratti D, Terruzzi I, Mazzaferro V. Post-absorptive and insulin-mediated muscle protein metabolism in liver transplanted patients. *Acta Diabetol* 2002 Dec; 39(4): 203-8
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58. Battezzati A, Benedini S, Caldara R, Calori G, Secchi A, Pozza G, Luzi L. Prediction of the long-term metabolic success of the pancreatic graft function. *Transplantation* 2001, 71: 1560
59. Perseghin G, Caumo A, Caloni M, Testolin G, Luzi L. Incorporation of the fasting plasma FFA concentration into QUICKI improves its association with insulin sensitivity in nonobese individuals. *J Clin Endocrinol Metab* 2001 Oct, 86(10):4776-81.
60. Luzi L, Giordano M, Caloni M, Castellino P. Effects of insulin and amino acids on leucine metabolism in young and middle-aged humans. *Eur J.Nutr* 2001, Jun; 40(3):106-12.
61. Perseghin G, Scifo P, Pagliato E, Battezzati A, Benedini S, Soldini L, Testolin G, Del Maschio A, Luzi L. Gender factors affect fatty acids-induced insulin resistance in nonobese humans: effects of oral steroidal contraception. *J Clin Endocrinol Metab* 2001, 86: 3188-3196.
62. Benedini S, Fiocchi R, Battezzati A, Scifo P, Piceni Sereni L, Gamba A, Mammanna C, Del Maschio A, Perseghin G, Luzi L. Energy metabolism in diabetic and non-diabetic heart transplant recipients. *Diabetes Care*, 2002 Mar, 25(3):530-6.
63. Battezzati A, Caumo A, Fattorini A, Piceni Sereni L, Coppa J, Romito R, Ammatuna M, Regalia E, Mazzaferro V, Luzi L. Amino acid kinetics during the anhepatic phase of liver transplantation. *Diabetes*, 2002 Jun, 51(6): 1690-8.
64. Perseghin G, Mazzaferro V, Benedini S, Pulvirenti A, Coppa J, Regalia E, Luzi L. Resting energy expenditure in diabetic and non diabetic patients with liver cirrhosis: relation with insulin sensitivity and effect of liver transplantation and immunosuppressive therapy. *Am J Clin Nutr*, 2002 Sep, 76(3): 541-8.
65. Perseghin G, Scifo P, Danna M, Battezzati A, Benedini S, Meneghini E, Del Maschio A, Luzi L. Normal insulin sensitivity and IMCL content in overweight humans are associated with higher fasting lipid oxidation. *Am J Physiol Endocrinol Metab*, 2002 Sep, 283(3): E556-64.
66. Perseghin G, Caumo A, Piceni Sereni L, Battezzati A, Luzi L. Fasting blood sample-based assessment of insulin sensitivity in kidney-pancreas transplanted patients. *Diabetes Care*, Dec 2002, 25(12): 2207-11.
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68. Terruzzi I, Allibardi S, Bendinelli P, Maroni P, Piccoletti R, Vesco F, Samaja M, Luzi L. Amino acid and lipid-induced insulin resistance in rat heart: molecular mechanisms. *Mol Cell Endocrinol*. 2002 Apr 25; 190(1-2):135-45
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71. Battezzati A, Benedini S, Fattorini A, Losa M, Mortini P, Bertoli S, Lanzi R, Testolin G, Biolo G, Luzi L. Insulin action on protein metabolism in acromegalic patients. *Am J Physiol Endocrinol Metab*, 2003 Apr, 284 (4):E823-9
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73. Perseghin G, Lattuada G, Danna M, Sereni PL, Maffi P, De Cobelli F, Battezzati A, Secchi A, Del Mashio A, Luzi L. Insulin resistance, intramyocellular lipid content and plasma adiponectin in patients with type 1 diabetes. *Am J Physiol Endocrinol Metab*, 2003, 285(6): E1174-E1181
74. Luzi L, Perseghin G, Tambussi G, Meneghini E, Scifo P, Pagliato E, Del Maschio A, Testolin G, Lazzarin A. Intramyocellular lipid accumulation and reduced whole body lipid oxidation in HIV lipodystrophy. *Am J Physiol Endocrinol Metab*, 2003 Feb; 284(2):E274-80
75. Perseghin G, Caumo A, Mazzaferro V, Pulvirenti A, Piceni Sereni L, Romito R, Lattuada G, Coppa J, Costantino F, Regalia E, Luzi L. Assessment of insulin sensitivity based on a fasting blood sample in men with livercirrhosis before and after liver transplantation. *Transplantation*, 2003, Aug 27; 76(4):697-702.
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77. Salvadori A, Fanari P, Giacomotti E, Palmulli P, Bolla G, Tovaglieri I, Luzi L, Longhini E. Kinetics of catecholamines and potassium, and heart rate during exercise testing in obese subjects. Heart rate regulation in obesity during exercise. *Eur. J. Nutr.* 2003;Aug;42(4):181-7
78. Battezzati A, Caumo A, Martino F, Piceni Sereni L, Coppa J, Romito R, Ammatuna M, Regalia E, Matthews DE, Mazzaferro V, Luzi L. Non-hepatic glucose production in humans. *Am J Physiol Endocrinol Metab*. 2004 Jan;286(1):E129-35.
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81. Perseghin G, Comola M, Scifo P, Benedini S, De Cobelli F, Lanzi R, Costantino F, Lattuada G, Battezzati A, Del Maschio A, Luzi L. Postabsorptive and insulin-stimulated energy and protein metabolism in patients with Myotonic Dystrophy type 1. *Am J Clin Nutr*. 2004 Aug;80(2):357-64
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- Luzi L, Perseghin G. Postabsorptive and insulin-stimulated energy homeostasis and leucine turnover in offspring of type 2 diabetic patients. *Diabetes Care*. 2004 Nov;27(11):2716-22.
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