

**FORMATO EUROPEO  
PER IL CURRICULUM  
VITAE**



Name	<b>LIVIO LUZI</b>
Office phone	<b>0039 02 8599 4286</b>
H-Index	<b>44</b>
Current Academic Rank	Full Professor
Primary Department	Professor of Endocrinology, University of Milan
Secondary or Joint Appointments	Director, Department of Endocrinology, Nutrition & Metabolism, MultiMedica Hospital Group, Milano, Italy
Citizenship	Italian

**HIGHER EDUCATION**

Institutional	University of Milan, Medical Doctor, 1981 University of Milan, Specialization in Internal Medicine, 1986
Non-Institutional	University of Philadelphia, Educational Commission Foreign Medical Graduates Diplomat, 1993; University of Milan, Economy and Health Care Management Specialty Course, 2000.
Certification, licensure	Medical Licensure European Union, Commonwealth of Massachusetts.

**EXPERIENCE**

**ACADEMIC**

1981-1982	Intern in Medicine, Ospedale San Raffaele, Milan, Italy
1984-1988	Research Fellow in Medicine, Endocrinology, Yale University School of Medicine
1988	Research Fellow in Medicine, Diabetes/Metabolism, University of Texas Health Science Center, San Antonio, Texas
1991-2002	Tecnico Laureato, Department of Medicine, University of Milan, Italy

1992	Visiting Assistant Professor, Department of Internal Medicine, Diabetes Division, Yale University School of Medicine
1993-1996	Assistant Professor of Medicine, Department of Medicine, Division of Endocrinology-Hypertension, Section of Diabetes and Metabolism, Brigham and Women's Hospital, Harvard Medical School.
2002	Professor of Physiology – Faculty of Exercise Sciences – University of Milan
2005	Adjunct Professor of Surgery, Leonard M. Miller School of Medicine, University of Miami.
2006	Professor of Endocrinology, University of Milan
2007-2010	Dean, Faculty of Exercise Sciences, University of Milan.
2009-2015	PhD Program Director in Sport Sciences – University of Milan
2011	Director of the Center for Research on Metabolism-Policlinico San Donato.
2016-2019	Director, Post-Graduate School of Endocrinology & Metabolism, Univ. Milan.

#### **HOSPITAL APPOINTMENTS**

2002-2011	Director, Section of Nutrition and Metabolism, San Raffaele Hospital
2011-2012	Senior consultant in Diabetology, Endocrinology and Internal Medicine, Policlinico San Donato.
2013-2020	Director, Area of Endocrinology and Metabolic Diseases, Policlinico san Donato.
2020-	Director, Department of Endocrinology, Nutrition and Metabolism, MultiMedica Hospital Group

#### **NON-ACADEMIC APPOINTMENTS**

1997	Expert Member, External Monitoring Group of the medical research program BIOMED 2 (1994-1998) of the European Commission
1998-	Member, Scientific Committee, International Center for the Assessment of the Nutritional Status, University of Milan
2000	Expert Member, Marie Curie Fellowships Evaluators Panel, Quality of Life and Management of Living Resources, Brussels, European Commission.
2001	Expert Member, Marie Curie Fellowships Evaluators Panel, Quality of Life and Management of Living Resources, Brussels, European Commission.
2001-2006	Member Editorial Board of the American Journal of Physiology- Endocrinology and Metabolism. (January 2001-December 2006)

**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 glibenclamide on insulin secretion and hepatic glucose production in normal and NIDDM 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 sulphanylurea 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, Barzilay N, Rathelser 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 lipoatrophic 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<sub>1c</sub> [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 uvelitis 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.
34. Luzi L, Perseghin G, Regalia E, Lucia Piceni Sereni, Battezzati A, Baratti D, Bianchi E, Terruzzi I, Hilden A, Groop LC, Pulvirenti A, Taskinen M-R, Gennari L, Mazzaferro V. Metabolic effects of liver transplantation in cirrhotic patients. *J Clin Invest* 1997; 99:692-700.
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 <sup>1</sup>H-<sup>13</sup>C 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
49. Luzi L. Is it possible to correct protein metabolism in cirrhotic patients? *Diab Nutr Metab* 1999; 12(6):5-8.
50. Perseghin G, Mazzaferro V, Sereni L, Regalia E, Benedini S, Bazzigaluppi E, Pulvirenti A, Leao A, Calori G, Romito R, Baratti D, Luzi L. Contribution of Reduced Insulin Sensitivity and Secretion to the Pathogenesis of Hepatogenous Diabetes: Effect of Liver Transplantation. *Hepatology*. 2000, 31(3):694-703.
51. Battezzati A, Zerbi A, Perseghin G, Caumo A, Terruzzi I, Di Carlo V, Luzi L. Effect of hemipancreatectomy and of pancreatic diversion on the tolerance to a glucose load in humans. *Eur. J. Clin. Invest*, 2000, 30: 397-410
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
57. Luzi L, Perseghin G, , Brendel M, Terruzzi I, Battezzati A, Eckart M, Brandhorst D, Brandhorst H, Soggi C, Di Carlo V, Piceni Sereni L, Benedini S, Secchi A, Pozza G, Bretzel RG. Metabolic effects of restoring partial B-cell function after islet allotransplantation in type 1 diabetic patients. *Diabetes* 2001, 50:277-282.
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.
67. Luzi L. Portal vs central glucose sensing in humans: the value of clinical models. *Diabetes Nutr.Metab*, 2002, Oct; 15(5):315
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
69. Luzi L. De novo diabetes after organ transplantation. *Transplant Proc*. 2002Feb;34(1):122-3
70. Luzi L, Piceni Sereni L, Battezzati A, Elli A, Soullou JP, Cantarovich D. Metabolic effects of a corticosteroid-free immunosuppressive regimen in recipients of pancreatic transplant. *Transplantation*, 2003, 75(12), June 27,2018:23
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
72. Perseghin G, Caumo A, Arcelloni C, Benedini S, Lanzi R, Pagliato E, Sereni PL, Testolin G, Battezzati A, Comi G, Comola M, Luzi L. Contribution of abnormal insulin secretion and insulin resistance to the pathogenesis of type 2 diabetes in myotonic dystrophy. *Diabetes Care*, 2003 Jul;26(7):2112-8
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.
76. Piemonti L, Calori G, Mercalli A, Lattuada G, Monti P, Garancini MP, Costantino F, Ruotolo G, Luzi L and Perseghin G. Fasting plasma leptin, monocyte chemoattracting protein-1 (MCP-1/CCL2) and  $\alpha$ -tumor necrosis factor receptor 2 ( $\alpha$ -TNFR-2) concentrations in glucose tolerant and intolerant women. Impact on cardiovascular mortality. *Diabetes Care*, 2003, Oct, 26(10): 2883-2889.
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;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.
79. Brambilla AM, Novati R, Calori G, Meneghini E, Vacchini D, Luzi L, Castagna A, Lazzarin A. Stavudine or indinavir-containing regimens are associated with an increased risk of diabetes mellitus in HIV-infected individuals. *AIDS*, 2003;Sep5;17(13):1993-5.
80. Pontiroli AE, Pizzocri P, Caumo A, Perseghin G, Luzi L. Evaluation of insulin release and insulin sensitivity through oral glucose tolerance test: differences between NGT, IFG, IGT, and type 2 diabetes mellitus. A cross-sectional and follow-up study. *Acta Diabetol.* 2004 Jun; 41(2):70-6.
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
82. Salvadori A, Fanari P, Dworzak F, Azan G, Brunani A, Tovaglieri I, Luzi L, Longhini E. Respiratory-metabolic responses during exercise testing and skeletal muscle morphology in obesity. *Sport Sci Health*, 2004, 1:47-54.
83. Caumo A, Luzi L. First phase insulin secretion: does it exist in real life? Considerations on shape and function. *Am J Physiol Endocrinol Metab.* 2004 Sep;287(3):E371-85.
84. Lattuada G, Sereni LP, Ruggieri D, Scollo A, Benedini S, Ragogna F, Costantino F, Battezzati A, 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.
85. Luzi L, Cavadini V, Boggetti E, Alberti G, Battezzati A, Piceni Sereni L, Chiumello G. Insulin sensitivity of protein and glucose metabolism in overweight female adolescents with type 1 diabetes mellitus: positive modulation by physical exercise. *Sport Sci Health*, 2004, 1:41-46
86. Luzi L, Pizzini G. Born to run: training our genes to cope with ecosystem changes in the twentieth century. *Sport Sci Health*, 2004, 1:1-4
87. Lattuada G, Costantino F, Caumo A, Scifo P, Ragogna F, De Cobelli F, Del Maschio A, Luzi L, Perseghin G. Reduced whole-body lipid oxidation is associated with insulin resistance, but not with intramyocellular lipid content in offspring of type 2 diabetic patients. *Diabetologia.* 2005 Apr;48(4):741-7.
88. Maestroni A, Ruggieri D, Dell'Antonio G, Luzi L, Zerbini G. C-peptide increases the expression of vasopressin-activated calcium-mobilizing receptor gene through a G protein-dependent pathway. *Eur J Endocrinol.* 2005 Jan;152(1):135-41.
89. Perseghin G, Fiorina P, De Corbelli F, Scifo P, Esposito A, Canu T, Danna M, Grecuzzi C, Secchi A, Luzi L, Del Maschio A. Cross-Sectional assessment of the effect of kidney and kidney-pancreas transplantation on resting left ventricular energy metabolism in type 1 diabetic-uremic patients. *J.A.C.C.* 2005,46(6),1085-92
90. Perseghin G, Lattuada G, De Cobelli F, Esposito A, Costantino F, Canu T, Scifo P, De Taddeo F, Maffi P, Secchi A, Del Maschio A, Luzi L. Reduced intrahepatic fat content is associated with increased whole-body lipid oxidation in patients with type 1 diabetes. *Diabetologia*, 2005, Dec;48(12):2615-21
91. Terruzzi I, Pellegatta F, Luzi L. Differential p70S6k and 4E-BP1 regulation by insulin and amino acids in vascular endothelial and smooth muscle cells. *Acta Diabetol.* 2005 Oct;42(3):139-46.
92. Luzi L, Meneghini E, Oggioni S, Tambussi G, Piceni-Sereni L, Lazzarin A. Low-dose Growth Hormone treatment reduces trunkal adiposity in HIV-infected patients with lipodystrophy: results of a randomized placebo control study. *Eur J Endocrinol.* 2005



Dec;153(6):781-9.

93. Perseghin G, Burska A, Lattuada G, Alberti G, Costantino F, Ragogna F, Oggioni S, Scollo A, Terruzzi I, Luzi L. Increased serum resistin in elite endurance athletes with high insulin sensitivity. *Diabetologia*. 2006 Aug;49(8):1893-900
94. Perseghin G, Bonfanti R, Magni S, Lattuada G, De Cobelli F, Canu T, Esposito A, Scifo P, Ntali G, Costantino F, Bosio L, Ragogna F, Del Maschio A, Chiumello G, Luzi L. Insulin resistance and whole body energy homeostasis in obese adolescents with fatty liver disease. *Am J Physiol Endocrinol Metab*. 2006 Oct;291(4):E697-703.
95. Asnagli V, Lattanzio R, Mazzolari G, Pastore MR, Ramoni A, Maestroni A, Ruggieri D, Luzi L, Brancato R, Zerbini G. Increased clonogenic potential of circulating endothelial progenitor cells in patients with type 1 diabetes and proliferative retinopathy. *Diabetologia*. 2006 May;49(5):1109-11.
96. Del Bo R, Scarlato M, Ghezzi S, Maestroni A, Sjolind L, Forsblom C, Wessman M, Groop PH, Comi GP, Bresolin N, Luzi L, Zerbini G. VEGF gene variability and type 1 diabetes: evidence for a protective role. *Immunogenetics*. 2006 Apr;58(2-3):107-12. 96.
97. Pellegatta F, Catapano AL, Luzi L, Terruzzi I. In human endothelial cells amino acids inhibit insulin-induced Akt and ERK1/2 phosphorylation by an mTOR-dependent mechanism. *J Cardiovasc Pharmacol*. 2006 May;47(5):643-9
98. Zerbini G, Bonfanti R, Meschi F, Bognetti E, Paesano PL, Gianolli L, Querques M, Maestroni A, Calori G, Del Maschio A, Fazio F, Luzi L, Chiumello G. Persistent renal hypertrophy and faster decline of glomerular filtration rate precede the development of microalbuminuria in type 1 diabetes. *Diabetes*. 2006 Sep;55(9):2620-5.
99. Perseghin G, Lattuada G, De Cobelli F, Ntali G, Esposito A, Burska A, Belloni E, Canu T, Ragogna F, Scifo P, Del Maschio A, Luzi L. Serum resistin and hepatic fat content in nondiabetic individuals. *J Clin Endocrinol Metab*. 2006 Dec;91(12):5122-5.
100. Caumo A, Perseghin G, Brunani A, Luzi L. New insights on the simultaneous assessment of insulin sensitivity and beta-cell function with the HOMA2 method. *Diabetes Care*. 2006 Dec;29(12):2733-4.
101. Faradji RN, Monroy K, Messinger S, Pileggi A, Froud T, Baidal DA, Cure PE, Ricordi C, Luzi L, Alejandro R. Simple Measures to Monitor beta-Cell Mass and Assess Islet Graft Dysfunction. *Am J Transplant*. 2007 Feb;7(2):303-8.
102. Perseghin G, Lattuada G, De Cobelli F, Ragogna F, Ntali G, Esposito A, Belloni E, Canu T, Terruzzi I, Scifo P, Del Maschio A, Luzi L. Habitual Physical Activity Is Associated With Intrahepatic Fat Content in Humans. *Diabetes Care*. 2007 Mar;30(3):683-688.
103. Fiorina P, Perseghin G, De Corbelli F, Grecizzi C, Petrelli A, Monti L, Maffi P, Luzi L, Secchi A, Del Maschio A. Altered Kidney Graft High-Energy Phosphate Metabolism in Kidney-Transplanted End-Stage Renal Disease Type 1 Diabetic Patients: A cross-sectional analysis of the effect of kidney alone and kidney-pancreas transplantation. *Diabetes Care*. 2007 Mar;30(3):597-603.
104. Luzi L, Zerbini G, Caumo A. C-peptide: a redundant relative of insulin? *Diabetologia*. 2007 Mar;50(3):500-2.
105. Caumo A, Florea I, Luzi L. Effect of a variable hepatic insulin clearance on the postprandial insulin profile: insights from a model simulation study. *Acta Diabetol*. 2007; 44::23-29
106. Dodesini AR, Benedini S, Terruzzi I, Sereni LP, Luzi L. Protein, glucose and lipid metabolism in the cancer cachexia: A preliminary report. *Acta Oncol*. 2007;46(1):118-20.
107. Caumo A, Perseghin G, Brunani A, Luzi L. Disposition index by the HOMA2 method. Reply to Nagasaka et al. *Diabetes Care* 30: e43, 2007. [Letter]

108. Perseghin G, Ntali G, De Cobelli F, Lattuada G, Esposito A, Costantino F, Ragogna F, Canu T, Belloni E, Scifo P, Del Maschio A, Luzi L. Abnormal left ventricular energy metabolism in obese men with preserved systolic and diastolic functions is associated with insulin resistance. *Diabetes Care* 30: 1520-1527, 2007.
109. Benedini S, Fiocchi R, Battezzati A, Sereni Piceni L, Gamba A, Mammana C, Bevilacqua M, Perseghin G, Luzi L. Atrial natriuretic peptide in diabetic and nondiabetic patients with and without heart transplantation. *Transplant Proc* 39: 1580-1585, 2007.
110. Perseghin G, De Cobelli F, Esposito A, Lattuada G, Terruzzi I, La Torre A, Belloni E, Canu T, Scifo P, Del Maschio A, Luzi L, Alberti G. Effect of the sporting discipline on the right and left ventricular morphology and function of elite male track runners; a magnetic resonance imaging and <sup>31</sup>P-spectroscopy study. *Am Heart J* 154: 937-942, 2007
111. Caumo A, Guffanti M, Perseghin G, Galli L, Lazzarin A, Luzi L, Castagna A. Comments on the paper: Effects of atazanavir/ritonavir and lopinavir/ritonavir on glucose uptake and insulin sensitivity: demonstrable differences in vitro and clinically by Noor MA, Flint OP, Maa JF, Parker RA. *AIDS*. 2007 Nov 12;21(17):2366-7.
112. Guffanti M, Caumo A, Galli L, Bigoloni A, Galli A, Dagba G, Danise A, Luzi L, Lazzarin A, Castagna A Switching to unboosted atazanavir improves glucose tolerance in highly pretreated HIV-1 infected subjects. *Eur J Endocrinol*. 2007 Apr;156(4):503-9
113. Perseghin G, Lattuada G, De Cobelli F, Esposito A, Belloni E, Canu T, Ragogna F, Scifo P, Del Maschio A, Luzi L. Serum retinol binding protein-4 (RBP-4), leptin and adiponectin concentrations are related to ectopic fat accumulation. *J Clin Endocr Metab* 92: 4883-4888, 2007
114. Visioli F, Poli A, Peracino A, Luzi L, Cannella C, Paoletti R. Assessment of nutritional profiles: a novel system based on a comprehensive approach. *Br J Nutr*. 2007 Dec;98(6):1101-7. Review.
115. Terruzzi I, Senesi P, Fermo I, Lattuada G, Luzi L. Are genetic variants of the methyl group metabolism enzymes risk factors predisposing to obesity? *J Endocrinol Invest*. 2007 Oct;30(9):747-53
116. G. Perseghin, G. Lattuada, F. De Cobelli, A. Esposito, E. Belloni, G. Ntali, T. Canu, F. Ragogna, P. Scifo, A. Del Maschio, L. Luzi. Increased mediastinal fat and impaired left ventricular energy metabolism in young men with newly found fatty liver, *Hepatology* 2008 47(1):51-58.
117. Benedini S, Terruzzi I, Lazzarin A, Luzi L. Recombinant Human Growth Hormone. Rationale for use in the treatment HIV-associated lipodystrophy. *Biodrugs* 2008, 22(2): 101-112
118. Caumo A, Maffi P, Nano R, Bertuzzi F, Luzi L, Secchi A, Bonifacio E, Piemonti L. Transplant estimated function: a simple index to evaluate beta-cell secretion after islet transplantation. *Diabetes Care*. 2008 Feb;31(2):301-5
119. Sesti G, Andreozzi F, Bonadonna RC, De Mattia G, Leonetti F, Luzi L, Marini MA, Natali A, Vettor R, Bonora E; Group of Italian Scientists of Insulin Resistance (GISIR). Impact of lowering the criterion for impaired fasting glucose on identification of individuals with insulin resistance. The GISIR database. *Diabetes Metab Res* 2008 Feb;24(2):130-6.
120. Luzi L, Zoppini G, Targher G, Battezzati A, Muggeo M, Bonora E.. Insulin effect on serum potassium and auto-inhibition of insulin secretion is intact in a patient with leprechaunism despite severe impairment of substrates metabolism. *Diabetes Metab Res Rev*. 2008 Mar-Apr;24(3):205-10.
121. Benedini S, Ruffini E, Terruzzi I, Mancuso M, Luzi L.. Glucose and leucine metabolism in lung transplanted patients on low dose of steroids for immunosuppressive therapy. *Transplant Proc*. 2008 Jun;40(5):1566-71.

122. Benedini S, Cortelli P, Caumo A, Terruzzi I, Beelke M, Perseghin G, Montagna P, Luzi L. Insulin resistance to both glucose and aminoacid metabolism in a patient with Fatal Familial Insomnia. *Nutr Metab Cardiovasc Dis*, 2008 Nov;18(9):e47-8.
123. Battezzati A, Benedini S, Piceni Sereni L, De Taddeo F, Maffi P, Secchi A, Luzi L. Protein and glutamine kinetics during counterregulatory failure in type 1 diabetes. *Nutr Metab Cardiovasc Dis*, 2008, Aug 5.
124. Bonora E, Capaldo B, Perin PC, Del Prato S, De Mattia G, Frittitta L, Frontoni S, Leonetti F, Luzi L, Marchesini G, Marini MA, Natali A, Paolisso G, Piatti PM, Pujia A, Solini A, Vettor R, Bonadonna RC; Group of Italian Scientists of Insulin Resistance (GISIR). Hyperinsulinemia and insulin resistance are independently associated with plasma lipids, uric acid and blood pressure in non-diabetic subjects. The GISIR database. *Nutr Metab Cardiovasc Dis*. 2008 Nov;18(9):624-31.
125. Perseghin G, De Cobelli F, Esposito A, Belloni E, Lattuada G, Canu T, Invernizzi PL, Ragogna F, La Torre A, Scifo P, Alberti G, Del Maschio A, Luzi L. Left ventricular function and energy metabolism in middle-age men undergoing long lasting sustained aerobic oxidative training. *Heart*. 2009 Apr;95(8):630-5. Epub 2008 Nov 13.
126. Andralojc KM, Mercalli A, Novak KW, Albarello L, Calcagno R., Luzi L, Bonifacio E, Dogliosi C, Piemonti L. Ghrelin-producing epsilon cells in the developing and adult human pancreas. *Diabetologia*. 2009 Mar;52(3):486-93
127. Esposito A, De Cobelli F, Perseghin G, Pieroni M, Belloni E, Mellone R, Canu T, Gentinetta F, Scifo P, Chimenti C, Frustaci A, Luzi L, Maseri A, Del Maschio A. Impaired left ventricular energy metabolism in patients with hypertrophic cardiomyopathy is related to the extension of fibrosis at gadolinium delayed enhanced MR imaging. *Heart* 2009 Mar;95(3):228-33.
128. Benedini S, Perseghin G, Terruzzi I, Scifo P, Invernizzi P.L, Del Maschio A, Lazzarin A, Luzi L. Effect of L-Acetylcarnitine on body composition in HIV related lipodystrophy. *Horm. Metab. Res.* 2009, 41:840-845
129. Perseghin G, Caumo A, Lattuada G, De Cobelli F, Ntali G, Esposito A, Belloni E, Canu T, Ragogna F, Scifo P, Del Maschio A, Luzi L. Elevated fasting plasma C-peptide occurs in non-diabetic individuals with fatty liver irrespectively of insulin resistance. *Diabet Med* 26: 847-854, 2009
130. Piemonti L, Calori G, Lattuada G, Mercalli A, Ragogna F, Garancini MP, Ruotolo G, Luzi L, Perseghin G. Association between plasma monocyte chemoattractant protein-1 concentration and CVD mortality in middle-aged diabetic and non-diabetic individuals. *Diabetes Care*
131. Fragasso G, Montano C, Lattuada G, Salerno A, Palloschi A, Calori G, Luzi L, Perseghin G, Margonato A. A high carbohydrate meal yields a lower ischemic threshold than a high fat meal in patients with stable coronary disease. *Int J Cardiol* (accepted), August 2009
132. Perseghin G, Lattuada G, Ragogna F, Alberti G, La Torre A, Luzi L. Free leptin index and thyroid function in male highly trained athletes. *Eur J Endocrinol*.
133. Terruzzi I, Senesi P, Magni C, Montesano A, Scarafoni A, Luzi L, Duranti M. Insulin-mimetic action of conglutin-gamma, a lupin seed protein, in mouse myoblasts. *Nutr Metab Cardiovasc Dis*. 2010 Jan 18.
134. V. Lauriola · R. Codella · G. Lattuada · A. Caumo · E. Capitelli · A. Lazzarin ·L. Luzi Effects of endurance exercise training on metabolic and inflammatory parameters in HIV-1-infected patients with secondary lipodystrophy and diabetes *Sport Sci Health* (2010) 1:23-26
135. S. Benedini · A. Caimi · G. Alberti · I. Terruzzi · N. Dellerma · A. La Torre ·L. Luzi Increase in homocysteine levels after a half-marathon running: a detrimental metabolic effect of sport? *Sport Sci Health* (2010) 1:35-42

136. G. Calori, G. Lattuada, L. Piemonti, M.P. Garancini, F. Ragona, M. Villa, S. Mannino, P. Crosignani, E. Bosi, L. Luzi, G. Ruotolo, G. Perseghin (2011). Prevalence, metabolic features and prognosis of metabolically-healthy obese Italian individuals : the Cremona Study. *Diabetes Care*, vol. 34, p. 210-215
137. I. Terruzzi, P. Senesi, A. Montesano, A. La Torre, G. Alberti, S. Benedini, A. Caumo, I. Fermo, L. Luzi (2011). Genetic polymorphisms of the enzymes involved in DNA methylation and synthesis in elite athletes. *Physiological Genomics*, ISSN: 1094-8341
138. G. Fragasso, A. Salerno, G. Lattuada, A. Cuko, G. Calori, A. Scollo, F. Ragona, F. Arioli, G. Bassanelli, R. Spoladore, L. Luzi, A. Margonato, G. Perseghin (2011). Effect of partial inhibition of fatty acid oxidation by trimetazidine on whole body energy metabolism in patients with chronic heart failure. *Heart*, vol. 97, p. 1495-1500
139. S. Benedini, R. Codella, A. Caumo, F. Marangoni, L. Luzi (2011). Different circulating ghrelin responses to isoglucidic snack food in healthy individuals. *Hormone and Metabolic Research*, vol. 43, p. 135-140
140. A. Caumo, P. Maffi, R. Nano, L. Luzi, R. Hilbrands, P. Gillard, D. Jacobs-Tulleneers-Thevissen, A. Secchi, B. Keymeulen, D. Pipeleers, L. Piemonti (2011). Comparative evaluation of simple indices of graft function after islet transplantation. *Transplantation*, vol. 92, p. 815-821
141. M. Sambataro, G. Perseghin, G. Lattuada, G. Beltramello, L. Luzi, G. Pacini (2012). Lipid accumulation in overweight type 2 diabetic subjects: relationships with insulin sensitivity and adipokines. *ACTA Diabetologica*, ISSN: 0940-5429
142. G. Perseghin, G. Lattuada, F. De Cobelli, A. Esposito, T. Canu, F. Ragona, P. Maffi, P. Scifo, A. Secchi, A. Del Maschio, L. Luzi (2012). Left ventricular function and energy homeostasis in patients with type 1 diabetes with and without microvascular complications. *International Journal of Cardiology*, vol. 154, p. 111-115
143. F. Ragona, G. Lattuada, G. Ruotolo, L. Luzi, G. Perseghin (2012). Lack of association of apoE  $\epsilon$ 4 allele with insulin resistance. *ACTA Diabetologica*, vol. 49, p. 25-32
144. S. Benedini, E. Capitelli, E. Casiraghi, R. Codella, L. Luzi (2012). A "single-physician" model for diabetes care: best practice for life-style changes?. *Sport Sciences For Health*, vol. 7, p. 81-82, ISSN: 1824-7490
145. Sambataro M, Perseghin G, Lattuada G, Beltramello G, Luzi L, Pacini G. Lipid accumulation in overweight type 2 diabetic subjects: relationships with insulin sensitivity and adipokines. *Acta Diabetol.* 2013 Jun;50(3):301-7
146. Salvadori A, Fanari P, Marzullo P, Codecasa F, Tovaglieri I, Cornacchia M, Brunani A, Luzi L, Longhini E. Short bouts of anaerobic exercise increase non-esterified fatty acids release in obesity. *Eur J Nutr.* 2013 Apr 26
147. Montesano A, Luzi L, Senesi P, Terruzzi I. Modulation of cell cycle progression by 5-azacytidine is associated with early myogenesis induction in murine myoblasts. *Int J Biol Sci.* 2013 Apr 27;9(4):391-402
148. Delmonte V, Peixoto EM, Poggioli R, Enfield G, Luzi L, Ricordi C, Alejandro R. Ten years' evaluation of diet, anthropometry, and physical exercise adherence after islet allotransplantation. *Transplant Proc.* 2013 Jun;45(5):2025-8
149. Senesi P, Luzi L, Montesano A, Mazzocchi N, Terruzzi I. Betaine supplement enhances skeletal muscle differentiation in murine myoblasts via IGF-1 signaling activation. *J Transl Med.* 2013 Jul 19;11(1):174
150. Casiraghi F, Lertwattanak R, Luzi L, Chavez AO, Davalli AM, Naegelin T, Comuzzie AG, Frost P, Musi N, Folli F. Energy Expenditure Evaluation in Humans and Non-Human Primates by SenseWear Armband. Validation of Energy Expenditure Evaluation by SenseWear Armband by Direct Comparison with Indirect Calorimetry PLoS ONE 2013 8(9): e73651

151. Montesano A, Luzi L, Senesi P, Mazzocchi N, Terruzzi I. Resveratrol promotes myogenesis and hypertrophy in murine myoblasts. *J Transl Med.* 2013 Dec 13;11:310. doi: 10.1186/1479-5876-11-310.
152. Senesi P, Luzi L, Montesano A, Terruzzi I. DNA demethylation enhances myoblasts hypertrophy during the late phase of myogenesis activating the IGF-I pathway. *Endocrine.* 2014 Sep;47(1):244-54. doi: 10.1007/s12020-013-0142-5. Epub 2013 Dec 24
153. Lombardi G, Perego S, Luzi L, Banfi G. A four-season molecule: osteocalcin. Updates in its physiological roles. *Endocrine.* 2014 Aug 27. Mar;48(2):394-404. doi: 10.1007/s12020-014-0401-0.
154. Montesano A, Senesi P, Luzi L, Benedini S, Terruzzi I. Potential therapeutic role of L-carnitine in skeletal muscle oxidative stress and atrophy conditions. *Oxid Med Cell Longev.* 2015;2015:646171.
155. Codella R, Lanzoni G, Zoso A, Caumo A, Montesano A, Terruzzi IM, Ricordi C, Luzi L, Inverardi L. Moderate Intensity Training Impact on the Inflammatory Status and Glycemic Profiles in NOD Mice. *J Diabetes Res.* 2015;2015:737586
156. Luzi L, Benedini S, Caumo A, Terruzzi I. Overview of Cellular Transplantation in Diabetes Mellitus: Focus on the Metabolic Outcome Hindawi Publishing Corporation *Advances in Endocrinology.* 2015. Article ID 967562
157. Codella R, Luzi L, Inverardi L, Ricordi C. The anti-inflammatory effects of exercise in the syndromic thread of diabetes and autoimmunity. *Eur Rev Med Pharmacol Sci.* 2015 Oct; 19(19):3709-22.
158. Benedini S, Tufano A, Passeri E, Mendola M, Luzi L, Corbetta S. Autoimmune polyendocrine syndrome 3 onset with severe ketoacidosis in a 74-year-old woman. *Case Rep Endocrinol.* 2015; 2015:960615 doi: 10.1155/2015/960615. Epub 2015 Mar 2.
159. Senesi P, Montesano A, Luzi L, Codella R, Benedini S, Terruzzi I. Metformin Treatment Prevents Sedentariness Induced Damages In Mice *Journal of Diabetes Research,* 2016; doi: 10.1155/2016/8274689.
160. Benedini S, Dozio E, Invernizzi PL, Vianello E, Banfi G, Terruzzi I, Luzi L, Corsi Romanelli MM. Irisin: A Potential Link between Physical Exercise and Metabolism-An Observational Study in Differently Trained Subjects, from Elite Athletes to Sedentary People. *J Diabetes Res.* 2017;2017:1039161. doi: 10.1155/2017/1039161. Epub 2017 Mar 13.
161. Codella R, Benedini S, Paini S, Caumo A, Adamo M, Terruzzi I, Ferrulli A, Macrì C, Andreoni L, Sterlicchio M, Luzi L. Effect of Sugar versus Mixed Breakfast on Metabolic and Neurofunctional Responses in Healthy Individuals. *J Diabetes Res.* 2017;2017:9634585. doi: 10.1155/2017/9634585. Epub 2017 Jun 19.
162. Benedini S, Grassi G, Aresta C, Tufano A, Carmignani LF, Rubino B, Luzi L, Corbetta S. Adrenal Ganglioneuroblastoma in Adults: A Case Report and Review of the Literature. *Case Rep Endocrinol.* 2017;2017:5796236. doi: 10.1155/2017/5796236. Epub 2017 Jun 21.
163. Adamo M, Codella R, Casiraghi F, Ferrulli A, Macrì C, Bazzigaluppi E, Terruzzi I, Inverardi L, Ricordi C, Luzi L. Active Subjects With Autoimmune Type 1 Diabetes Have Better Metabolic Profiles Than Sedentary Controls. *Cell Transplant.* 2017 Jan 24;26(1):23-32. doi: 10.3727/096368916X693022. Epub 2016 Sep 20.
164. Villa I, Senesi P, Montesano A, Ferraretto A, Vacante F, Spinello A, Bottani M, Bolamperti S, Rubinacci A, Luzi L, Terruzzi I. Betaine promotes cell differentiation of human osteoblasts in primary culture. *J Transl Med.* 2017 Jun 7;15(1):132. doi: 10.1186/s12967-017-1233-5.

165. Codella R, Adamo M, Maffi P, Piemonti L, Secchi A, Luzi L. Ultra-marathon 100 km in an islet-transplanted runner. *Acta Diabetol.* 2017 Jul;54(7):703-706. doi: 10.1007/s00592-016-0938-x. Epub 2016 Nov 23.
166. Codella R, Terruzzi I, Luzi L. Why should people with type 1 diabetes exercise regularly? *Acta Diabetol.* 2017 Jul;54(7):615-630. doi: 10.1007/s00592-017-0978-x. Epub 2017 Mar 14. Review
167. Bertuzzi F, Meneghini E, Bruschi E, Luzi L, Nichelatti M, Epis O. Ultrasound characterization of insulin induced lipohypertrophy in type 1 diabetes mellitus. *J Endocrinol Invest.* 2017 Oct;40(10):1107-1113. doi: 10.1007/s40618-017-0675-1. Epub 2017 Apr 27.
168. Terruzzi I, Montesano A, Senesi P, Vacante F, Benedini S, Luzi L. Ranolazine promotes muscle differentiation and reduces oxidative stress in C2C12 skeletal muscle cells. *Endocrine.* 2017 Oct;58(1):46. doi: 10.1007/s12020-017-1243-3
169. Codella R, Terruzzi I, Luzi L. Sugars, exercise and health. *J Affect Disord.* 2017 Dec 15;224:76-86. doi: 10.1016/j.jad.2016.10.035. Epub 2016 Oct 27. Review.
170. Carnovali M, Luzi L, Terruzzi I, Banfi G, Mariotti M. Metabolic and bone effects of high-fat diet in adult zebrafish. *Endocrine.* 2017 Dec 22. doi: 10.1007/s12020-017-1494-z. [Epub ahead of print]
171. Massarini S, Ferrulli A, Ambrogi F, Macrì C, Terruzzi I, Benedini S, Luzi L. Routine resting energy expenditure measurement increases effectiveness of dietary intervention in obesity. *Acta Diabetol.* 2018 Jan;55(1):75-85. doi: 10.1007/s00592-017-1064-0. Epub 2017 Nov 3.
172. Ermetici F, Briganti S, Delnevo A, Cannà P, Leo GD, Benedini S, Terruzzi I, Sardanelli F, Luzi L. Bone marrow fat contributes to insulin sensitivity and adiponectin secretion in premenopausal women. *Endocrine.* 2018 Feb;59(2):410-418. doi: 10.1007/s12020-017-1349-7. Epub 2017 Jun 17.
173. Bertuzzi F, Stefani I, Rivolta B, Pintaudi B, Meneghini E, Luzi L, Mazzone A. Teleconsultation in type 1 diabetes mellitus (TELEDIABE). *Acta Diabetol.* 2018 Feb;55(2):185-192. doi: 10.1007/s00592-017-1084-9. Epub 2017 Dec 5.
174. Adamo M, Labate AM, Ferrulli A, Macrì C, Terruzzi I, Luzi L. Effects of hazelnuts and cocoa on vascular reactivity in healthy subjects: a randomised study. *Int J Food Sci Nutr.* 2018 Mar;69(2):223-234. doi: 10.1080/09637486.2017.1348492. Epub 2017 Jul 9.
175. Coppola A, Luzi L, Montalcini T, Giustina A, Gazzaruso C. Role of structured individual patient education in the prevention of vascular complications in newly diagnosed type 2 diabetes: the INdividual Therapeutic Education in Newly Diagnosed type 2 diabetes (INTEND) randomized controlled trial. *Endocrine.* 2018 Apr;60(1):46-49. doi: 10.1007/s12020-017-1427-x. Epub 2017 Sep 21.
176. Codella R, Luzi L, Terruzzi I. Exercise has the guts: How physical activity may positively modulate gut microbiota in chronic and immune-based diseases. *Dig Liver Dis.* 2018 Apr;50(4):331-341. doi: 10.1016/j.dld.2017.11.016. Epub 2017 Nov 28.
177. Carnovali M, Luzi L, Terruzzi I, Banfi G, Mariotti M. Metabolic and bone effects of high-fat diet in adult zebrafish. *Endocrine.* 2018 Aug;61(2):317-326. doi: 10.1007/s12020-017-1494-z. Epub 2017 Dec 22.
178. Benedini S, Ermetici F, Briganti S, Codella R, Terruzzi I, Maffi P, Caldara R, Secchi A, Nano R, Piemonti L, Alejandro R, Ricordi C, Luzi L. Insulin-mimetic effects of short-term rapamycin in type 1 diabetic patients prior to islet transplantation. *Acta Diabetol.* 2018 Jul;55(7):715-722. doi: 10.1007/s00592-018-1141-z. Epub 2018 Apr 13.
179. Pascale A, Marchesi N, Marelli C, Coppola A, Luzi L, Govoni S, Giustina A, Gazzaruso C. Microbiota and metabolic diseases. *Endocrine.* 2018 Sep;61(3):357-371. doi: 10.1007/s12020-018-1605-5. Epub 2018 May 2.



180. Codella R, Ialacqua M, Terruzzi I, Luzi L. May the force be with you: why resistance training is essential for subjects with type 2 diabetes mellitus without complications. *Endocrine*. 2018 Oct;62(1):14-25. doi: 10.1007/s12020-018-1603-7. Epub 2018 May 5.
181. Devoto F, Zapparoli L, Bonandrini R, Berlingeri M, Ferrulli A, Luzi L, Banfi G, Paulesu E. Hungry brains: A meta-analytical review of brain activation imaging studies on food perception and appetite in obese individuals. *Neurosci Biobehav Rev*. 2018 Nov;94:271-285. doi: 10.1016/j.neubiorev.2018.07.017. Epub 2018 Jul 30.
182. Malpetti M, Sala A, Vanoli EG, Gianolli L, Luzi L, Perani D. Unfavourable gender effect of high body mass index on brain metabolism and connectivity. *Sci Rep*. 2018 Aug 22;8(1):12584. doi: 10.1038/s41598-018-30883-y.
183. Terruzzi I, Vacante F, Senesi P, Montesano A, Codella R, Luzi L. Effect of Hazelnut Oil on Muscle Cell Signalling and Differentiation. *J Oleo Sci*. 2018 Oct 11;67(10):1315-1326. doi: 10.5650/jos.ess18086. Epub 2018 Sep 13.
184. Benedini S, Codella R, Caumo A, Terruzzi I, Luzi L. Single bout of low-intensity exercise produces modestly favorable changes in glycemic and lipidemic profiles after ingestion of non-isoglucidic breakfasts. *Nutrition*. 2019 Feb;58:57-64. doi: 10.1016/j.nut.2018.06.005. Epub 2018 Jul 24.
185. Coppola A, Montalcini T, Gallotti P, Luzi L, Pujia A, Giustina A, Gazzaruso C. Transmucosal oxygen tension of the clitoris: a new parameter for future investigations of the sexual, metabolic, and cardiovascular health of women. *Endocrine*. 2019 Jan;63(1):177-181. doi: 10.1007/s12020-018-1782-2. Epub 2018 Oct 9.
186. Aresta C, Butera G, Tufano A, Grassi G, Luzi L, Benedini S. Pheochromocytoma in Congenital Cyanotic Heart Disease. *Case Rep Endocrinol*. 2018 Sep 25;2018:2091257. doi: 10.1155/2018/2091257. eCollection 2018.
187. Ferrulli A, Macrì C, Terruzzi I, Ambrogi F, Milani V, Adamo M, Luzi L. High frequency deep transcranial magnetic stimulation acutely increases  $\beta$ -endorphins in obese humans. *Endocrine*. 2018 Nov 8. doi: 10.1007/s12020-018-1791-1. [Epub ahead of print]
188. Greenway FL, Aronne LJ, Raben A, Astrup A, Apovian CM, Hill JO, Kaplan LM, Fujioka K, Matejkova E, Svacina S, Luzi L, Gnessi L, Navas-Carretero S, Alfredo Martinez J, Still CD, Sannino A, Saponaro C, Demitri C, Urban LE, Leider H, Chiquette E, Ron ES, Zohar Y, Heshmati HM. A Randomized, Double-Blind, Placebo-Controlled Study of Gelesis100: A Novel Nonsystemic Oral Hydrogel for Weight Loss. *Obesity (Silver Spring)*. 2019 Feb;27(2):205-216. doi: 10.1002/oby.22347. Epub 2018 Nov 13.
189. Vacante F, Senesi P, Montesano A, Frigerio A, Luzi L, Terruzzi I. L-Carnitine: An Antioxidant Remedy for the Survival of Cardiomyocytes under Hyperglycemic Condition. *J Diabetes Res*. 2018 Dec 9;2018:4028297. doi: 10.1155/2018/4028297. eCollection 2018.
190. Vacante F, Senesi P, Montesano A, Paini S, Luzi L, Terruzzi I. Metformin Counteracts HCC Progression and Metastasis Enhancing KLF6/p21 Expression and Downregulating the IGF Axis. *Int J Endocrinol*. 2019 Jan 10;2019:7570146. doi: 10.1155/2019/7570146. eCollection 2019.
191. Terruzzi I, Montesano A, Senesi P, Villa I, Ferraretto A, Bottani M, Vacante F, Spinello A, Bolamperti S, Luzi L, Rubinacci A. L-Carnitine Reduces Oxidative Stress and Promotes Cells Differentiation and Bone Matrix Proteins Expression in Human Osteoblast-Like Cells. *Biomed Res Int*. 2019 Jan 20;2019:5678548. doi: 10.1155/2019/5678548. eCollection 2019.
192. De Nardi M, Silvani S, Ruggeri P, Luzi L, La Torre A, Codella R. Local cryostimulation acutely preserves maximum isometric handgrip strength following fatigue in young women. *Cryobiology*. 2019 Mar 8. pii: S0011-2240(19)30051-3. doi: 10.1016/j.cryobiol.2019.03.002. [Epub ahead of print]

193. Papini E, Pacella CM, Solbiati LA, Achille G, Barbaro D, Bernardi S, Cantisani V, Cesareo R, Chiti A, Cozzaglio L, Crescenzi A, De Cobelli F, Deandrea M, Fugazzola L, Gambelunghe G, Garberoglio R, Giugliano G, Luzi L, Negro R, Persani L, Raggiunti B, Sardanelli F, Seregni E, Sollini M, Spiezia S, Stacul F, Van Doorne D, Sconfienza LM & Mauri G. Minimally-invasive treatments for benign thyroid nodules: a Delphi-based consensus statement from the Italian minimally-invasive treatments of the thyroid (MITT) group. *Int J Hyperthermia*. 2019;36(1):376-382. doi: 10.1080/02656736.2019.1575482. Epub 2019 Mar 26.
194. Codella R, Glad B, Luzi L, La Torre A. An Italian Campaign to Promote Anti-doping Culture in High-School Students. *Front Psychol*. 2019 Mar 11;10:534. doi: 10.3389/fpsyg.2019.00534. eCollection 2019.
195. Ferrulli A, Macrì C, Terruzzi I, Massarini S, Ambrogi F, Adamo M, Milani V, Luzi L. Weight loss induced by deep Transcranial Magnetic Stimulation in obesity: a randomised, double-blind, sham-controlled study. *Diabetes Obes Metab*. 2019 Aug;21(8):1849-1860. doi: 10.1111/dom.13741. Epub 2019 May 15.
196. Carnovali M, Luzi L, Terruzzi I, Banfi G, Mariotti M. Liquiritigenin Reduces Blood Glucose Level and Bone Adverse Effects in Hyperglycemic Adult Zebrafish. *Nutrients*. 2019 May 9;11(5). pii: E1042. doi: 10.3390/nu11051042.
197. Fiorentino TV, Casiraghi F, Davalli AM, Finzi G, La Rosa S, Higgins PB, Abrahamian GA, Marando A, Sessa F, Perego C, Guardado-Mendoza R, Kamath S, Ricotti A, Fiorina P, Daniele G, Paez AM, Andreozzi F, Bastarracea RA, Comuzzie AG, Gastaldelli A, Chavez AO, Di Cairano ES, Frost P, Luzi L, Dick EJ, Half GA, DeFronzo RA, Folli F. Exenatide regulates pancreatic islet integrity and insulin sensitivity in the nonhuman primate baboon *Papio hamadryas*. *JCI Insight*. 2019 Oct 17;4(20). pii: 93091. doi: 10.1172/jci.insight.93091.
198. Sala A, Malpetti M, Ferrulli A, Gianolli L, Luzi L, Perani D. High body mass index, brain metabolism and connectivity: an unfavorable effect in elderly females. *Aging (Albany NY)*. 2019 Oct 9;11(19):8573-8586. doi: 10.18632/aging.102347. Epub 2019 Oct 9.
199. Montesano A, Senesi P, Vacante F, Mollica G, Benedini S, Mariotti M, Luzi L, Terruzzi I. L-Carnitine counteracts in vitro fructose-induced hepatic steatosis through targeting oxidative stress markers. *J Endocrinol Invest*. 2019 Nov 8. doi: 10.1007/s40618-019-01134-2. [Epub ahead of print]
200. Mollica G, Senesi P, Codella R, Vacante F, Montesano A, Luzi L, Terruzzi I. L-carnitine supplementation attenuates NAFLD progression and cardiac dysfunction in a mouse model fed with methionine and choline-deficient diet. *Dig Liver Dis*. 2019 Oct 10. pii: S1590-8658(19)30792-3. doi: 10.1016/j.dld.2019.09.002. [Epub ahead of print]
201. Trifirò G, Mora S, Marelli S, Luzi L, Pini A. Increased fracture rate in children and adolescents with Marfan syndrome. *Bone*. 2020 Mar 25:115333. doi:10.1016/j.bone.2020.115333 [Epub ahead of print]
202. Luzi L, Radaelli MG. Influenza and obesity: its odd relationship and the lessons for COVID-19 pandemic. *Acta Diabetol*. 2020 Apr. doi: 10.1007/s00592-020-01522-8. [Epub ahead of print]

## EDITORIAL RESPONSIBILITIES

2001	Associate Editor of <i>Acta Diabetologica</i> , Springer-Verlag, Heidelberg, DE
2004-2012	Co-Editor of <i>Sport Sciences for Health</i> , published by Springer Verlag, Heidelberg, DE.
2009-2013	Editor in Chief, <i>Sport Sciences for Health</i> .
2013-2016	Editorial Board, <i>J Endocrinol Invest</i>



## HONORS AND AWARDS

1987-1989	Research Fellowship, Juvenile Diabetes Foundation International
1988	Prize for the best scientific work, Societa' Italiana di Nutrizione Enterale e Parenterale, Bologna, SINPE-GASAPE
1993	Morgagni Prize, Young Investigator Award
2001	Italian Society of Diabetology, Career Award
2018	Bocconi University, ViviSalute Prize

## SERVICE

### UNIVERSITY COMMITTEE AND ADMINISTRATIVE RESPONSABILITIES

- 1) Dean, Faculty of Exercise Sciences, University of Milan (2007-2010).
- 2) Member of Senato Accademico, University of Milan (2007-2010)

---

---

Milano, 30/04/2020

