

- **NOME:** Luigi Schiavo
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- **MATERIE DI RIFERIMENTO:** Medical Physiology
- **BIOGRAPHY:**

Dopo gli studi in Scienze Biologiche prosegue con il dottorato in Fisiologia, Endocrinologia e Metabolismo presso l'Università di Sannio in Benevento ed ottiene infine l'abilitazione come Professore Associato in Scienze Dietetiche nel 2017. A seguito di diverse esperienze come Ricercatore in Italia attualmente lavora come Nutrizionista nella 9. Divisione di Chirurgia Generale dell'Università della Campania "Luigi Vanvitelli" di Napoli.

## **ESPERIENZE RECENTI**

- **Università della Campania "Luigi Vanvitelli", Napoli / 2012 > in corso**  
**Nutrizionista**, IX Divisione di Chirurgia Generale, Università della Campania "Luigi Vanvitelli", Napoli
- **Attualmente, ricerche principali:**
  1. Dietetica applicata alla chirurgia bariatrica
  2. Impatto clinico della chirurgia bariatrica sulla composizione corporea del paziente (grasso m e massa magra) e tasso metabolico a riposo
  3. Trattamento pre-e post-operatorio delle carenze di micronutrienti nei pazienti sottoposti a chirurgia bariatrica
  - 4.
- **Dal 1. Novembre 2016 al 31 Ottobre 2017, Ricercatore**, Dipartimento di Scienze Cardiotoraciche e Respiratorie, Università della Campania "Luigi Vanvitelli", Napoli

## PUBBLICAZIONI ACCADEMICHE

1. **Schiavo L\***, Favre G, Pilone V, Rossetti G, De Sena G, Iannelli A, Barbarisi A. Low-purine diet is more effective than normal-purine diet in reducing the risk of gouty attacks after sleeve gastrectomy in patients suffering of gout before surgery: a retrospective study. *Obesity Surgery. In press*  
**\*Corresponding author**
2. **Schiavo L\***, Scalera G, Pilone V, De Sena G, Iannelli A, Barbarisi A (2017). [Fat mass, fat-free mass, and resting metabolic rate in weight-stable sleeve gastrectomy patients compared with weight-stable nonoperated patients.](#) *Surg Obes Relat Dis.* 2017 Jul 1. pii: S1550-7289(17)30300-3. doi: 10.1016/j.soard.2017.06.007.  
**\*Corresponding author**
3. **Schiavo L\***, Scalera G, Pilone V, De Sena G, Quagliariello V, Iannelli A, Barbarisi A. A comparative study examining the impact of a protein-enriched vs normal protein postoperative diet on body composition and resting metabolic rate in obese patients after sleeve gastrectomy. *Obesity Surgery* 2017 [In Press]  
**\*Corresponding author**
4. **Schiavo L\***, Sans A, Scalera G, Barbarisi A, Iannelli A. Why preoperative weight loss in preparation for bariatric surgery is important. *Obesity Surgery* 2016 Nov;26(11):2790-2792.  
**\*Corresponding author**
5. **Schiavo L\***, Scalera G, Pilone V, De Sena G, Ciorra F.R., Barbarisi A. Patient adherence in following a prescribed diet and micronutrient supplements after laparoscopic sleeve gastrectomy: our experience during 1 year of follow-up *Journal of Human Nutrition and Dietetics.* 2017 Feb;30(1):98-104.  
**\*Corresponding author**
6. **Schiavo L\***, Scalera G, Barbarisi A. (2016) Micronutrient deficiencies and Sleeve Gastrectomy for weight reduction. In: V. R. Preedy, R. Rajendram and C.R. Martin (Eds) *Metabolism and pathophysiology of Bariatric Surgery: Nutrition Procedures, Outcomes and Adverse Effects. Academic Press* (an Imprint of Elsevier) – Book Chapter. *In Press* - Print ISBN 9780128040119; Electronic ISBN [9780128040638](#)  
**\*Corresponding author**
7. **Schiavo L\***, Scalera G, Pilone V, De Sena G, Capuozzo V, Barbarisi A. (2016) Micronutrient deficiencies in obese patients candidate for bariatric surgery: a prospective, pre-operative trial of screening, diagnosis, and treatment. *Int. J. Vit & Nutr. Research.* May;10:1-8.

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8. **Schiavo L\***, Scalera G, Barbarisi A. (2015) Sleeve Gastrectomy to treat concomitant polycystic ovary syndrome, insulin and leptin resistance in a 27-years morbidly obese woman unresponsive to insulin-sensitizing drugs: a 3-year follow-up. *Int. J. Surg. Case Rep. Oct; 21(17):36-38.*

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9. **Schiavo L\***, Scalera G, De Sena G, Ciorra FR, Pagliano P, Barbarisi A. (2015) Nonsurgical management of multiple splenic abscesses in an obese patient that underwent laparoscopic sleeve gastrectomy: case report and review of literature. *Clinical Case Report. Oct;3(10):870-874.*

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10. **Schiavo L\***, Scalera G, Sergio R, De Sena G, Pilone V, Barbarisi A. (2015) Clinical impact of Mediterranean- enriched-protein diet on liver size, visceral fat, fat mass and fat-free mass in patients undergoing sleeve gastrectomy. *Surg Obes Rel Dis. Sep-Oct;11(5):1164-70.*

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11. Funari R, Della Ventura B, **Schiavo L**, Esposito R, Altucci C, Velotta R (2013) Detection of parathion pesticide by quartz crystal microbalance functionalized with UV-activated antibodies. *Anal Chem. Jul 2;85(13):6392-7.*

12. Della Ventura B, **Schiavo L**, Altucci C, Esposito R, Velotta R (2011) Light assisted antibody immobilization for bio-sensing. *Biomed Opt Express. Nov 1;2(11):3223-31.*

13. [Papadopoulou OS](#), [Tassou CC](#), **Schiavo L**, Nichas GJE, Panagou EZ (2011) Rapid Assessment of Meat Quality by Means of an Electronic Nose and Support Vector Machines. *Procedia Food Sciences; 1:2003-2006.*

14. Misiakos K, Petrou PS, Kakabakos SE, Yannoukakos D, Contopanagos H, Knoll T, Velten T, DeFazio M, **Schiavo L**, Passamano M, Stamou D, Nounesis G ( 2010) Fully integrated monolithic optoelectronic transducer for real-time protein and DNA detection: the NEMOSLAB approach. *Biosens Bioelectron. Dec 15;26(4):1528-35.*

15. Lusi EA, Passamano M, Guarascio P, Scarpa A, **Schiavo L** (2009) Innovative electrochemical approach for an early detection of microRNAs. *Anal Chem. Apr 1;81(7):2819-22.*

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16. Abizaid A, **Schiavo L** and Diano S (2008) Hypothalamic and pituitary expression of ghrelin receptor message is increased during lactation *Neurosci Lett.* Aug 8;440(3):206-10.
17. Silvestri Elena, Lombardi Assunta, De Lange Pieter, **Schiavo Luigi**, Lanni Antonia, Goglia Fernando, Visser Theo, Moreno Maria (2008) Age-Related Changes in Renal and Hepatic Cellular Mechanisms Associated with Variations in Rat Serum Thyroid Hormone Levels. *Am J Physiol Endocrinol Metab.* Jun;294(6):E1160-8.
18. Calamita G, Moreno M, Ferri D, Silvestri E, Roberti P, **Schiavo L**, Gena P, Svelto M, Goglia F (2007) The effect of thyroid state on aquaporin 8 in rat liver mitochondria. *Journal of Endocrinology* **192**:111-120.
19. Elena Silvestri, Maria Moreno, **Luigi Schiavo**, Pieter de Lange, Assunta Lombardi, Angela Chambery, Augusto Parente, Antonia Lanni, and Fernando Goglia (2006). A proteomics approach to identify protein expression changes in rat liver following administration of 3,5,3'-triiodo-L-thyronine. *Journal of proteome research* **5**:2317-2327.
20. Silvestri E, De Lange P, Moreno M, Lombardi A, Ragni M, Feola A, **Schiavo L**, Goglia F, Lanni A (2006) Fenofibrate activates the biochemical pathways and the de novo expression of genes related to lipid handling and uncoupling protein-3 functions in liver of normal rats. *Biochemical Biophysica Acta* **1757**:486-95.
21. Coppola A, Hughes, J, Esposito E, **Schiavo L**, Meli R, Diano S (2005) Suppression of hypothalamic deiodinase type II activity blunts TRH mRNA decline during fasting. *FEBS Letters* **579**:4654-4658.
22. Silvestri E\*, **Schiavo L\***, Lombardi A, Goglia F (2005) Thyroid hormones as molecular determinants of thermogenesis. *Acta Physiologica Scandinavica* **184**:265-283 (Cover dedicated). \*The authors contributed equally.

### Oral Presentation, National and International Congress

1. de Lange P, Ragni M, Silvestri E, Moreno M, **Schiavo L**, Lombardi A, Farina P, Feola A, Goglia F, Lanni A (2004) Combined cDNA array/ RT-PCR analysis of the gene expression profile in rat gastrocnemius muscle in relation to its adaptive function in energy metabolism during fasting. *FASEB J* **18**:350:352.

2. Diano S, Leonard JL, Meli R, Esposito E, **Schiavo L (2003)** Hypothalamic type II iodothyronine deiodinase: a light and electron microscopic study. *Brain research* **976**:130-134.
3. **Schiavo L**, Scalera G, De Sena G, Capuozzo V, Ciorra FR, Barbarisi A. An unexpected clinical effect of Sleeve Gastrectomy on a multifactorial endocrinopathy: a case report. 9-11 Giugno 2016, Napoli. XX Conferenza della Società Europea di Chirurgia.
4. **Schiavo L**, Scalera G, De Sena G, Capuozzo V, Ciorra FR, Barbarisi A. Preparation of obese patients to elective surgery: the case of patients scheduled for bariatric surgery. 9-11 Giugno 2016, Napoli. XX Conferenza della Società Europea di Chirurgia.
5. Scalera G, **Schiavo L**, Ciorra FR, Aliberti R, Amendola A, De Sena G. Clinical impact of sleeve gastrectomy on T2DM: our experience. 9-11 Giugno 2016, Napoli. XX Conferenza della Società Europea di Chirurgia.
6. **Schiavo L**, Scalera G, Sergio R, De Sena G, Ciorra FR, Barbarisi A. Deficit vitaminici e minerali in seguito ad intervento di Sleeve Gastrectomy: ma i pazienti seguono le prescrizioni dietetiche e la supplementazione prescritta? La nostra esperienza nel corso di 1 anno di follow-up. 22-24 Aprile 2015, Baveno. XXIII Congresso Nazionale S.I.C.OB.
7. **Schiavo L**, Scalera G, Sergio R, De Sena G, Ciorra FR, Barbarisi A. Deficit vitaminici e minerali in seguito ad intervento di Sleeve Gastrectomy: ma i pazienti seguono le prescrizioni dietetiche e la supplementazione prescritta? La nostra esperienza nel corso di 1 anno di follow-up. 22-24 Aprile 2015, Baveno. XXIII Congresso Nazionale S.I.C.OB.
8. **Schiavo L**, Scalera G. OBESITA': come intervenire quando le terapie dietetiche classiche falliscono. Aversa (CE), 18 Gennaio 2015.
9. **Schiavo L**. Integrazione alimentare nella vita quotidiana e nei diversi tipi di sport. Aversa (CE), 27 Novembre 2014.
10. **Schiavo L**, Scalera G and Barbarisi A. Pre-surgical weight loss, liver shrinkage and abdominal fat reduction obtained using a Mediterranean Diet in obese patients undergoing laparoscopic sleeve gastrectomy. **19-21 Giugno 2014**, Beirut. XVIII European Society of Surgery (ESS) and the 17th Spring Annual Congress of the Lebanese Society for General Surgery (LSGS).

11. **Schiavo L**, Scalera G and Barbarisi A. Dieta Mediterranea e Chirurgia Bariatrica: binomio possibile? 15-17 Maggio 2014, Napoli. XXII Congresso Nazionale S.I.C.OB.
12. **Schiavo L**, Scalera G and Barbarisi A. Dieto-terapia prima dell'intervento di sleeve gastrectomy: dimagrimento o deperimento? 15-17 Maggio 2014, Napoli. XXII Congresso Nazionale S.I.C.OB.
13. **Schiavo L**. Variazione del peso: magrezza ed obesità. Corso di Medicina della Riproduzione anno 2013. Riproduzione Assistita e Benessere della donna. 6 Dicembre 2013. Giugliano (Na).
14. **Schiavo L**, Scalera G and Barbarisi A. Pre- and Post-operative Nutritional Considerations to Better Manage Bariatric Surgery Patients. 21-23 Novembre, 2014, Malta. European Society of Surgery.
15. **Schiavo L**, Esposito E, Horvath TL, Diano S and Abizaid A. Lactation leads to increased levels of hypothalamic and pituitary ghrelin receptor transcripts. Parental Brain Conference, June 7-10, 2007, Boston, Massachusetts, USA
16. **Schiavo L\***, Antonio Scarpa, Simona Greco. Antigen-Antibody interaction on the gold surface modified by Langmuir-Shaeffer technologies with poly-pyrrole-derivatives monitored by  $\mu$ LIBRA. The AISEM Society's 12<sup>nd</sup> Annual Meeting, Febbraio 12-14 , 2007, Napoli, Italy  
**(\*Corresponding author)**
17. Silvestri E, **Schiavo L**, Lanni A, Lombardi A, de Lange P, Farina P, Goglia F, Moreno M. Effect of thyroid hormone on rat skeletal muscle protein expression profile. The Endocrine Society's 88<sup>th</sup> Annual Meeting, June 24-27, 2006, Boston, USA
18. Silvestri E, **Schiavo L**, Lanni A, Feola A, Goglia F, Moreno M. Expression change in liver proteome following thyroid hormone administration to hypothyroid rats. 13<sup>th</sup> International Thyroid Congress, October 30- Novembre 4, 2005, Buenos Aires, Argentina
19. Silvestri E, **Schiavo L**, Lanni A, Feola A, Goglia F, Moreno M. Liver protein expression following thyroid hormone (T3) administration to hypothyroid rats: a proteomic approach. 56<sup>o</sup> congresso della Società Italiana di Fisiologia, September 27-30, 2005, Palermo, Italy
20. Calamita G, Moreno M, Ferri D, Silvestri E, Roberti P, **Schiavo L**, Gena P, Svelto M, Goglia F. Mitochondrial AQP8 is downregulated by thyroid hormone (T3) in rat liver. 56<sup>o</sup> congresso della Società Italiana di Fisiologia, September 27-30, 2005, Palermo, Italy

21. Calamita G, Moreno M, Ferri D, Silvestri E, Roberti P, **Schiavo L**, Gena P, Svelto M, Goglia F. Mitochondrial AQP8 is downregulated by thyroid hormone (T3) in rat liver. *International Conference on Aquaporins, September 10-13, 2005, Brussels, Belgio*
22. Calamita G, Moreno M, Ferri D, Silvestri E, Gena P, **Schiavo L**, Svelto M, Goglia F. Aquaporin-8 (AQP8) downregulation by thyroid hormones in rat liver mitochondria. *55° congresso della Società Italiana di Fisiologia, 4-7 Ottobre, 2004, Pisa, Italy*
23. Calamita G, Moreno M, Ferri D, Silvestri E, Gena P, **Schiavo L**, Svelto M, Goglia F. The expression of the Aquaporin-8 water channel (AQP8) is increased in the liver mitochondria of hypothyroid rats. *30<sup>th</sup> Annual Meeting of ETA, 19-22 Settembre, 2004, Istanbul, Turkey*
24. Ragni M, De Lange P, Moreno M, Silvestri E, Farina P, **Schiavo L**, Feola A, Goglia F. Combined cDNA array\RT-PCR analysis of gene expression profile in rat gastrocnemius muscle: relation to its adaptative function in energy metabolism during fasting. *54° Congresso della Società Italiana di Fisiologia, 29 Settembre - 2 Ottobre, 2003, Chieti, Italy*
25. Diano S, Leonard JL, Meli R, Esposito E, **Schiavo L**. Hypothalamic type II iodothyronine deiodinase: a light and electron microscopic study. *The Endocrine Society 85<sup>th</sup> Annual Meeting, June 19-22, 2003, Philadelphia, PA, USA.*