



Luigi di Filippo

Date of birth: 12/02/1993 | **Phone number:** (+39) 3343083410 (Mobile) | **Email address:** difilippo.luigi@hsr.it |

Address: Via olgettina 60, 20132, Milano, Italy (Work)

● WORK EXPERIENCE

01/04/2023 – CURRENT Milan, Italy

RESEARCH FELLOW IN ENDOCRINOLOGY UNIVERSITÀ VITA-SALUTE SAN RAFFAELE

Research topics:

1. Identification and characterization of osteo-metabolic complications of pituitary diseases
2. Identification, definition and characterization of the prevalence and clinical role of osteo-metabolic complications in general population
3. Role of vitamin D effects in skeletal and extra-skeletal diseases
4. Role of the neuro-endocrine effects in muscle-fat-bone cross-talk

16/11/2022 – CURRENT Milan, Italy

MEDICAL PHYSICIAN SPECIALIST IN ENDOCRINOLOGY IRCCS OSPEDALE SAN RAFFAELE

Outpatient Endocrine Department. Bone Center. Pituitary Center. Obesity Center.
Institute of Endocrine and Metabolic Sciences (Director Professor A. Giustina)

11/2018 – 02/11/2022 Milan, Italy

MEDICAL FELLOWSHIP PROGRAM UNIVERSITÀ VITA-SALUTE SAN RAFFAELE

Medical Fellowship Program - Postgraduate School of Endocrinology and Metabolism (Director Professor A. Giustina)

Activities in:

1. Endocrinology Unit - Institute of Endocrine and Metabolic Sciences (Director Professor A. Giustina)
2. Internal Medicine Unit (Director Professor E. Bosi)
3. Neurosurgery Department (Director Professor P. Mortini - Professor M. Losa)
4. Day Hospital Unit (Director Dr R. Lanzi - Professor E. Bosi)
5. COVID-Biobanking Study Group (Director Professor F. Ciceri - Professor P. Rovere Querini)
6. Cardio-Diabetology Unit (Director Dr P. Piatti - Professor E. Bosi)
7. Endocrinology Unit Ospedale Carlo Poma Mantova (Director Dr R. Olivetti)

Diseases management: internal medicine; thyroid diseases; bone metabolism; diabetes; pituitary diseases; neuroendocrine tumours

16/05/2022 – 02/11/2022 Milan, Italy

MEDICAL PRACTITIONER IRCCS OSPEDALE SAN RAFFAELE

Medical Practitioner - Outpatient department visits, Institute of Endocrine and Metabolic Sciences (Director Professor A. Giustina)

09/2017 – 04/2018 Milan, Italy

MEDICAL DOCTOR IRCCS OSPEDALE SAN RAFFAELE

Medical Assistant volunteer - Internal Medicine Unit (Director Professor E. Bosi)

● EDUCATION AND TRAINING

11/2018 – 11/2022 Milan, Italy

MEDICAL FELLOWSHIP PROGRAM DEGREE IN ENDOCRINOLOGY AND METABOLISM Università Vita-Salute San Raffaele

Dr Luigi di Filippo obtained the medical fellowship program in the Postgraduate School of Endocrinology and Metabolism of the Vita-Salute San Raffaele University of Milan in 2022 with a final score of 70/70 cum laude presenting

the scientific research entitled "Hypocalcemia in the COVID-19: from discovery to the study of pathophysiological mechanisms and clinical role" (Under the supervision of Professor Andrea Giustina).

Final grade 70/70 cum laude |

Thesis Hypocalcemia in the COVID-19: from discovery to the study of pathophysiological mechanisms and clinical role

2011 – 2017 Milan, Italy

MEDICAL DEGREE Università Vita-Salute San Raffaele

Thyroid diseases and Calcium metabolism (Supervisors: Professor E. Bosi, Professor M. Bussi, Doctor M. Manzoni)

Dr Luigi di Filippo graduated in Medicine Degree in 2017 in Vita-Salute San Raffaele University of Milan, with a final a score of 110/110 cum laude and honours, presenting the scientific research entitled "Hypocalcemia after Total-Thyroidectomy: a retrospective evaluation of risk factors" (Under the supervision of Professor Emanuele Bosi). He obtained the professional medical qualification in the first session of the year 2017-2018 at the Vita-Salute San Raffaele University of Milan.

Final grade 110/110 cum laude and honors |

Thesis Hypocalcemia after Total-Thyroidectomy: a retrospective evaluation of risk factors

2007 – 2011 Sarno, Italy

HIGH SCHOOL LEAVING QUALIFICATION IN SCIENTIFIC STUDIES Liceo Statale "Tito Lucrezio Caro"

Dr. Luigi di Filippo has obtained the high school leaving qualification in scientific studies in Liceo Scientifico Sperimentale Brocca in 2011 (final grade 100/100).

Final grade 100/100

● LANGUAGE SKILLS

Mother tongue(s): **ITALIANA**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Microsoft Office: Word, Excel, Access, Power Point, Outlook. | SPSS Software - Analyst Software (Professional) | Graphpad prism (Version: 7.00, 6.00 & 5.00) | Social media communicator

● PUBLICATIONS

Bibliometric indexes

The 61 scientific works are published in international journals that all cited in Medline; in 31 of them Dr. Luigi di Filippo is the first author, in 2 is co-first author, in 9 is second author, and in 2 is last author. Therefore, 44 works out of 61 Dr. Luigi di Filippo has a relevant role.

Scholar:

Total Citations: 1959

H-index: 25

Web of Science

Total Citations: 1333

H-index: 23

Scopus

Total Citations: 1449

H-index: 24

Paper Publications 2018-2020

Corsello A*, **Di Filippo L***, Massironi S, et al. Vasostatin-1: A novel circulating biomarker for ileal and pancreatic neuroendocrine neoplasms. *PLoS One*. 2018;13(5):e0196858. Published 2018 May 3. doi:10.1371/journal.pone.0196858

Di Filippo L, Bosi E, Martinenghi S. A complete flaccid quadriparesis as early presentation of Graves' disease. *J Endocrinol Invest*. 2020;43(2):255-256. doi:10.1007/s40618-019-01115-5

Di Filippo L, Vitali G, Taccagni G, et al. Cervix neuroendocrine carcinoma presenting with severe hypokalemia and Cushing's syndrome. *Endocrine*. 2020;67(2):318-320. doi:10.1007/s12020-020-02202-x

Di Filippo L, Formenti AM, Rovere-Querini P, et al. Hypocalcemia is highly prevalent and predicts hospitalization in patients with COVID-19. *Endocrine*. 2020;68(3):475-478. doi:10.1007/s12020-020-02383-5

di Filippo L, Doga M, Resmini E, Giustina A. Hyperprolactinemia and bone. *Pituitary*. 2020;23(3):314-321. doi:10.1007/s11102-020-01041-3

Di Filippo L, Giugliano G, Tagliabue M, et al. Total thyroidectomy versus lobectomy: surgical approach to T1-T2 papillary thyroid cancer. *Acta Otorhinolaryngol Ital*. 2020;40(4):254-261. doi:10.14639/0392-100X-N0608

di Filippo L, Formenti AM, Giustina A. Hypocalcemia: the quest for the cause of a major biochemical feature of COVID-19. *Endocrine*. 2020;70(3):463-464. doi:10.1007/s12020-020-02525-9

Rovere-Querini P, Tresoldi C, Conte C, Ruggeri A, Ghezzi S, De Lorenzo R, **Di Filippo L**, Farina N, Ramirez GA, Ripa M, Mancini N, Cantarelli E, Galli L, Poli A, De Cobelli F, Bonini C, Manfredi AA, Franchini S, Spessot M, Carlucci M, Dagna L, Scarpellini P, Ambrosio A, Di Napoli D, Bosi E, Tresoldi M, Lazzarin A, Landoni G, Martino G, Zangrillo A, Poli G, Castagna A, Vicenzi E, Clementi M, Ciceri F; COVID-BioB Study Group. Biobanking for COVID-19 research. *Panminerva Med*. 2020 Oct 19. doi: 10.23736/S0031-0808.20.04168-3. Epub ahead of print. PMID: 33073557.

Lampasona V, Secchi M, Scavini M, Bazzigaluppi E, Brigatti C, Marzinotto I, Davalli A, Caretto A, Laurenzi A, Martinenghi S, Molinari C, Vitali G, **Di Filippo L**, Mercalli A, Melzi R, Tresoldi C, Rovere-Querini P, Landoni G, Ciceri F, Bosi E, Piemonti L. Antibody response to multiple antigens of SARS-CoV-2 in patients with diabetes: an observational cohort study. *Diabetologia*. 2020 Dec;63(12):2548-2558. doi: 10.1007/s00125-020-05284-4. Epub 2020 Oct 8. PMID: 33029657; PMCID: PMC7541098.

Formenti AM, Pedone E, **di Filippo L**, Ulivieri FM, Giustina A. Are women with osteoporosis treated with denosumab at risk of severe COVID-19?. *Endocrine*. 2020;70(2):203-205. doi:10.1007/s12020-020-02500-4

Farina N, Ramirez GA, De Lorenzo R, **Di Filippo L**, Conte C, Ciceri F, Manfredi AA, Rovere-Querini P. COVID-19: Pharmacology and kinetics of viral clearance. *Pharmacol Res*. 2020 Nov;161:105114. doi: 10.1016/j.phrs.2020.105114. Epub 2020 Aug 3. PMID: 32758635; PMCID: PMC7834389

Paper Publications 2021

Frara S, Loli P, Allora A, Santini C, **di Filippo L**, Mortini P, Fleseriu M, Giustina A. COVID-19 and hypopituitarism. *Rev Endocr Metab Disord*. 2021 Aug 13:1-17. doi: 10.1007/s11154-021-09672-y. Epub ahead of print. PMID: 34387832; PMCID: PMC8363093.

Di Filippo L, De Lorenzo R, Sciorati C, et al. Adiponectin to leptin ratio reflects inflammatory burden and survival in COVID-19. *Diabetes Metab*. 2021;47(6):101268. doi:10.1016/j.diabet.2021.101268

di Filippo L, Frara S, Giustina A. The emerging osteo-metabolic phenotype of COVID-19: clinical and pathophysiological aspects [published online ahead of print, 2021 Jun 2]. *Nat Rev Endocrinol*. 2021;1-2. doi:10.1038/s41574-021-00516-y

Di Filippo L, De Lorenzo R, Cinel E, et al. Weight trajectories and abdominal adiposity in COVID-19 survivors with overweight/obesity [published online ahead of print, 2021 May 17]. *Int J Obes (Lond)*. 2021;1-9. doi:10.1038/s41366-021-00861-y

Conte C, Esposito A, De Lorenzo R, **Di Filippo L**, Palmisano A, Vignale D, Leone R, Nicoletti V, Ruggeri A, Gallone G, Secchi A, Bosi E, Tresoldi M, Castagna A, Landoni G, Zangrillo A, De Cobelli F, Ciceri F, Camici P, Rovere-Querini P. Epicardial adipose tissue characteristics, obesity and clinical outcomes in COVID-19: A post-hoc analysis of a prospective cohort study. *Nutr Metab Cardiovasc Dis*. 2021 Jun 30;31(7):2156-2164. doi: 10.1016/j.numecd.2021.04.020. Epub 2021 May 3. PMID: 34059384; PMCID: PMC8091800

Frara S, Allora A, Castellino L, **di Filippo L**, Loli P, Giustina A. COVID-19 and the pituitary. *Pituitary*. 2021;24(3):465-481. doi:10.1007/s11102-021-01148-1

di Filippo L, Doga M, Frara S, Giustina A. Hypocalcemia in COVID-19: Prevalence, clinical significance and therapeutic implications [published online ahead of print, 2021 Apr 13]. *Rev Endocr Metab Disord*. 2021;1-10. doi:10.1007/s11154-021-09655-z

Frara S, Allora A, **di Filippo L**, et al. Osteopathy in mild adrenal Cushing's syndrome and Cushing disease. *Best Pract Res Clin Endocrinol Metab*. 2021;35(2):101515. doi:10.1016/j.beem.2021.101515

Formenti AM, Dalla Volta A, **di Filippo L**, Berruti A, Giustina A. Effects of Medical Treatment of Prostate Cancer on Bone Health. *Trends Endocrinol Metab*. 2021;32(3):135-158. doi:10.1016/j.tem.2020.12.004

di Filippo L, Formenti AM, Doga M, et al. Hypocalcemia is a distinctive biochemical feature of hospitalized COVID-19 patients. *Endocrine*. 2021;71(1):9-13. doi:10.1007/s12020-020-02541-9

Di Filippo L, De Lorenzo R, D'Amico M, et al. COVID-19 is associated with clinically significant weight loss and risk of malnutrition, independent of hospitalisation: A post-hoc analysis of a prospective cohort study. *Clin Nutr*. 2021;40(4):2420-2426. doi:10.1016/j.clnu.2020.10.043

di Filippo L, Formenti AM, Doga M, Pedone E, Rovere-Querini P, Giustina A. Radiological Thoracic Vertebral Fractures are Highly Prevalent in COVID-19 and Predict Disease Outcomes. *J Clin Endocrinol Metab*. 2021;106(2):e602-e614. doi:10.1210/clinem/dgaa738

Paper Publications 2021.2 - 2022

di Filippo L, Allora A, Locatelli M, et al. Hypocalcemia in COVID-19 is associated with low vitamin D levels and impaired compensatory PTH response. *Endocrine*. 2021;74(2):219-225. doi:10.1007/s12020-021-02882-z

di Filippo L, Frara S, Doga M, Giustina A. The osteo-metabolic phenotype of COVID-19: an update. *Endocrine*. 2022 Nov;78(2):247-254. doi: 10.1007/s12020-022-03135-3. Epub 2022 Jul 20. PMID: 35857271; PMCID: PMC9297261.

Frara S, **di Filippo L**, Doga M, Loli P, Casanueva FF, Giustina A. Novel approaches to bone comorbidity in Cushing's disease: an update. *Pituitary*. 2022 Oct;25(5):754-759. doi: 10.1007/s11102-022-01252-w. Epub 2022 Jul 18. PMID: 35849272

di Filippo L, Compagnone N, Frara S, et al. Vertebral fractures at hospitalization predict impaired respiratory function during follow-up of COVID-19 survivors [published online ahead of print, 2022 Jun 8]. *Endocrine*. 2022;10.1007/s12020-022-03096-7. doi:10.1007/s12020-022-03096-7

Di Filippo L, De Lorenzo R, Giustina A, Rovere-Querini P, Conte C. Vitamin D in Osteosarcopenic Obesity. *Nutrients*. 2022;14(9):1816. Published 2022 Apr 26. doi:10.3390/nu14091816

Frara S, Melin Uygur M, **di Filippo L**, et al. High Prevalence of Vertebral Fractures Associated With Preoperative GH Levels in Patients With Recent Diagnosis of Acromegaly. *J Clin Endocrinol Metab*. 2022;107(7):e2843-e2850. doi:10.1210/clinem/dgac183

Incampo G, **Di Filippo L**, Grossrubatscher EM, Dalino Ciaramella P, Frara S, Giustina A, Loli P. Adrenal schwannoma: why should endocrinologists be aware of this uncommon tumour? *Endocrine*. 2022 Mar;75(3):684-697. doi: 10.1007/s12020-022-02997-x. Epub 2022 Feb 12. PMID: 35150404.

di Filippo L, Castellino L, Giustina A. Occurrence and response to treatment of Graves' disease after COVID vaccination in two male patients. *Endocrine*. 2022;75(1):19-21. doi:10.1007/s12020-021-02919-3

di Filippo L, Allora A, Doga M, et al. Vitamin D Levels Are Associated With Blood Glucose and BMI in COVID-19 Patients, Predicting Disease Severity. *J Clin Endocrinol Metab*. 2022;107(1):e348-e360. doi:10.1210/clinem/dgab599

Paper Publications 2022.2 - 2023

di Filippo L, La Marca S, Losa M, Lena MS, Mapelli R, Incampo G, Mortini P, De Cobelli F, Giustina A, Lanzi R. High prevalence of adrenal cortical adenomas in patients with cerebral meningiomas. *J Endocrinol Invest*. 2022 Oct 21:1-6. doi: 10.1007/s40618-022-01935-y. Epub ahead of print. PMID: 36269557; PMCID: PMC9589754.

di Filippo L, Castellino L, Allora A, Frara S, Lanzi R, Perticone F, Valsecchi F, Vassallo A, Giubbini R, Rosen CJ, Giustina A. Distinct clinical features of post COVID-19 vaccination early-onset Graves' disease (PoVEO GD). *J Clin Endocrinol Metab*. 2022 Sep 21:dgac550. doi: 10.1210/clinem/dgac550. Epub ahead of print. PMID: 36130234.

Salmi A, **di Filippo L**, Ferrari C, Frara S, Giustina A. Ultrasound and FibroScan® Controlled Attenuation Parameter in patients with MAFLD: head to head comparison in assessing liver steatosis. *Endocrine*. 2022 Nov;78(2):262-269. doi: 10.1007/s12020-022-03157-x. Epub 2022 Aug 18. PMID: 35980569.

Chiloiro S, Frara S, Gagliardi I, Bianchi A, Giampietro A, Medici M, Allora A, **di Filippo L**, Ambrosio MR, Pontecorvi A, Zatelli MC, De Marinis L, Giustina A. Cholecalciferol Use Is Associated With a Decreased Risk of Incident Morphometric Vertebral Fractures in Acromegaly. *J Clin Endocrinol Metab*. 2023 Dec 21;109(1):e58-e68. doi: 10.1210/clinem/dgad493. PMID: 37606222; PMCID: PMC10735684.

di Filippo L, Frara S, Terenzi U, et al. Lack of vitamin D predicts impaired long-term immune response to COVID-19 vaccination. *Endocrine*. 2023;82(3):536-541. doi:10.1007/s12020-023-03481-w

di Filippo L, Frara S, Giustina A. Response to the Letter to the Editor From Min et al: Low Vitamin D Levels are Associated With Long COVID Syndrome in COVID-19 Survivors. *J Clin Endocrinol Metab*. 2023;109(1):e438-e439. doi: 10.1210/clinem/dgad327

di Filippo L, Frara S, Nannipieri F, et al. Low Vitamin D Levels Are Associated With Long COVID Syndrome in COVID-19 Survivors. *J Clin Endocrinol Metab*. 2023;108(10):e1106-e1116. doi:10.1210/clinem/dgad207

Uygun MM, Frara S, **di Filippo L**, Giustina A. New tools for bone health assessment in secreting pituitary adenomas. *Trends Endocrinol Metab*. 2023;34(4):231-242. doi:10.1016/j.tem.2023.01.006

di Filippo L, Uygun M, Locatelli M, Nannipieri F, Frara S, Giustina A. Low vitamin D levels predict outcomes of COVID-19 in patients with both severe and non-severe disease at hospitalization [published online ahead of print, 2023 Mar 1]. *Endocrine*. 2023;1-15. doi:10.1007/s12020-023-03331-9

Giustina A, **di Filippo L**, Allora A, et al. Vitamin D and malabsorptive gastrointestinal conditions: A bidirectional relationship?. *Rev Endocr Metab Disord*. 2023;24(2):121-138. doi:10.1007/s11154-023-09792-7

Giustina A, **di Filippo L**, Uygun MM, Frara S. Modern approach to resistant acromegaly [published online ahead of print, 2023 Feb 15]. *Endocrine*. 2023;10.1007/s12020-023-03317-7. doi:10.1007/s12020-023-03317-7

Paper Publications 2023.2 - 2024

Vassallo A, Ferrari F, **di Filippo L**, Giustina A, Loli P. Transition from Hashimoto thyroiditis to Graves's Disease: an unpredictable change?. *Endocrine*. Published online December 20, 2023. doi:10.1007/s12020-023-03634-x

De Lorenzo R*, **Di Filippo L***, Scelfo S, et al. Longitudinal Changes in Physical Function and Their Impact on Health Outcomes in COVID-19 Patients. *Nutrients*. 2023;15(20):4474. Published 2023 Oct 22. doi:10.3390/nu15204474

di Filippo L, Olivieri FM, Nuti R, Giustina A. Use of vitamin D with anti-osteoporotic drugs: are available clinical trials telling us the whole story?. *Endocrine*. Published online October 10, 2023. doi:10.1007/s12020-023-03551-z

Giustina A, **di Filippo L**, Facciorusso A, et al. Vitamin D status and supplementation before and after Bariatric Surgery: Recommendations based on a systematic review and meta-analysis. *Rev Endocr Metab Disord*. 2023;24(6):1011-1029. doi:10.1007/s11154-023-09831-3

di Filippo L, Giustina A. Vitamin D deficiency and type 2 diabetes: the dangerous link between two modern pandemics. *J Clin Endocrinol Metab*. Published online June 13, 2024. doi:10.1210/clinem/dgae390

di Filippo L, Terenzi U, Di Ienno G, Trasciatti S, Bonaretti S, Giustina A. Novel protective circulating miRNA are associated with preserved vitamin D levels in patients with mild COVID-19 presentation at hospital admission not progressing into severe disease [published correction appears in *Endocrine*. 2024 Jun 27. doi: 10.1007/s12020-024-03939-5]. *Endocrine*. Published online June 10, 2024. doi:10.1007/s12020-024-03900-6

Frara S, Uygun MM, Bolamperti F, **di Filippo L**, Doga M, Ferrari F, Losa M, Mortini P, Giustina A. High prevalence of morphometric vertebral fractures opportunistically detected on thoracic radiographs in patients with non-functioning pituitary adenoma. *Pituitary*. 2024 Aug;27(4):370-380. doi: 10.1007/s11102-024-01394-z. Epub 2024 May 27. PMID: 38802688.

Giustina A, Bilezikian JP, Adler RA, Banfi G, Bikle DD, Binkley NC, Bollerslev J, Bouillon R, Brandi ML, Casanueva FF, **di Filippo L**, Donini LM, Ebeling PR, Fuleihan GE, Fassio A, Frara S, Jones G, Marcocci C, Martineau AR, Minisola S, Napoli N, Procopio M, Rizzoli R, Schafer AL, Sempos CT, Olivieri FM, Virtanen JK. Consensus Statement on Vitamin D Status Assessment and Supplementation: Whys, Whens, and Hows. *Endocr Rev*. 2024 Sep 12;45(5):625-654. doi: 10.1210/endrev/bnae009. PMID: 38676447; PMCID: PMC11405507.

di Filippo L, Bilezikian JP, Canalis E, Terenzi U, Giustina A. New insights into the vitamin D/PTH axis in endocrine-driven metabolic bone diseases. *Endocrine*. Published online April 17, 2024. doi:10.1007/s12020-024-03784-6

Giovenzana A, Bezzecchi E, Bichisecchi A, Cardellini S, Ragogna F, Pedica F, Invernizzi F, **Di Filippo L**, Tomajer V, Aleotti F, Scotti GM, Socci C, Cesana G, Olmi S, Morelli MJ, Falconi M, Giustina A, Bonini C, Piemonti L, Ruggiero E, Petrelli A. Fat-to-blood recirculation of partially dysfunctional PD-1+CD4 Tconv cells is associated with dysglycemia in human obesity. *iScience*. 2024 Feb 1;27(3):109032. doi: 10.1016/j.isci.2024.109032. PMID: 38380252; PMCID: PMC10877684.

Paper Publications 2024.2

Bolamperti S, Villa I, **di Filippo L**. Growth hormone and bone: a basic perspective. *Pituitary*. Published online October 30, 2024. doi:10.1007/s11102-024-01464-2

di Filippo L, Rosen CJ. Latest on Anabolic Agents for Osteoporosis Treatment. *Endocrinol Metab Clin North Am*. 2024;53(4):513-523. doi:10.1016/j.ecl.2024.08.003

Menotti S, **di Filippo L**, Terenzi U, Chiloiro S, De Marinis L. Hypophysitis in COVID-19: a systematic review. *Pituitary*. 2024 Oct 15. doi: 10.1007/s11102-024-01462-4. Epub ahead of print. PMID: 39404935

Vassallo A, **Di Filippo L**, Frara S, Bertoli M, Pagani M, Presciuttini B. New onset of Graves' disease after controlled ovarian stimulation: A case report and brief literature review. *Int J Gynaecol Obstet*. 2024 Oct 12. doi: 10.1002/ijgo.15951. Epub ahead of print. PMID: 39396110

di Filippo L, Franzese V, Santoro S, Doga M, Giustina A. Long COVID and pituitary dysfunctions: a bidirectional relationship? *Pituitary*. 2024 Sep 6. doi: 10.1007/s11102-024-01442-8. Epub ahead of print. PMID: 39240511

Villanova, M., **di Filippo, L.**, Bolamperti, F.M. et al. V600E BRAF-mutated anaplastic thyroid carcinoma after radioactive iodine for Graves' disease: a case report and a review of the literature. *Clin Transl Imaging* (2024). <https://doi.org/10.1007/s40336-024-00643-2>

Maffei P, **di Filippo L**. Copeptin after pituitary surgery: is it worth measuring?. *Pituitary*. Published online July 16, 2024. doi:10.1007/s11102-024-01418-8

Abstract Publications.1

L Moiola, A Nozzolillo, **L Di Filippo**, C Zanetta, M Manzoni, C Lapucci, A Laroni, M Mirabella, A Bianco, V Morra, R Lanzillo, CV Russo, M Margoni, F Rinaldi, M Zaffaroni, F Patti, CG Chisari, P Cavalla, M Vercellino, E Cocco, J Frau, M Capobianco, A Bertolotto, S Malucchi, AR Pia, G Comi, M Filippi. Alemtuzumab-induced thyroid disease: observational data from an Italian cohort of patients. *Multiple Sclerosis Journal*. 25 879-880. 2019/9/1.

Anna Maria Formenti, Erika Pedone, **Luigi Di Filippo**, Olivieri Fabio Massimo, Andrea Giustina. Are women with osteoporosis treated with denosumab at risk of severe COVID-19?. 22nd European Congress of Endocrinology. *Endocrine Abstracts* 70. 2020/8/21

Anna Maria Formenti, **Luigi Di Filippo**, Agnese Allora, Raffaele Giubbini, Andrea Giustina. Clinical and Biochemical Characterization of Risk Factors for Vertebral Fractures in Patients with Hypoparathyroidism. ENDO 2020 Endocrine Society's Annual Meeting. *Journal of the Endocrine Society*. Oxford University Press. 2020/04

Stefano Frara, Riccardo Pasquali, **Di Filippo Luigi**, Querini Patrizia Rovere, Andrea Giustina. COVID-19 and hypopituitarism. Experience from an endocrine center in a high-impact area. 22nd European Congress of Endocrinology. *BioScientifica* 70. 2020/8/21

Stefano Frara, **Di Filippo Luigi**, Mauro Doga, Formenti Anna Maria, Marco Losa, Eugenia Resmini, Francesco Tecilazich, Pietro Mortini, Andrea Giustina. Morphometric vertebral fractures are highly prevalent in patients with non-functioning pituitary adenoma and related to older age and hypopituitarism. 22nd European Congress of Endocrinology. *BioScientifica* 70. 2020/8/21

Luigi Di Filippo, Anna Maria Formenti, Patrizia Rovere-Querini, Carlucci Michele, Caterina Conte, Fabio Ciceri, Alberto Zangrillo, Mauro Doga, Andrea Giustina. Hypocalcemia is highly prevalent and predicts hospitalization in patients with COVID-19. 22nd European Congress of Endocrinology. *Endocrine Abstracts* 70. 2020/8/21

Luigi Di Filippo, Agnese Allora, Anna Maria Formenti, Laura Castellino, Francesca Perticone, Massimo Locatelli, Stefano Frara, Andrea Giustina. Vitamin D deficiency is a key element in COVID-19 hypocalcemia. 23rd European Congress of Endocrinology 2021. *Endocrine Abstracts*. *Bioscientifica* 73. 2021/5

Luigi di Filippo, Agnese Allora, Mauro Doga, Patrizia Rovere Querini, Massimo Locatelli, Stefano Frara, Andrea Giustina. Low Levels of Vitamin D Are Associated With Markers of Immuno-Inflammatory Response and Clinical

Abstract Publications.2

Luigi di Filippo, Agnese Allora, Mauro Doga, Santina Battaglia, Riccardo Giusti, Fabrizio Nannipieri, Stefano Frara, Andrea Giustina, ODP594 Vitamin D Levels At Hospital Admission Predict Severity Of Covid-19: A Controlled Prospective Study. ENDO 2022 Endocrine Society's Annual Meeting. Journal of the Endocrine Society, Volume 6, Issue Supplement_1, November-December 2022, Page A148

Luigi Di Filippo, Fanny Valsecchi, Stefano Frara, Francesca Perticone, Laura Castellino, Andrea Giustina. Impact of COVID-19 vaccination on incidence of graves. 24th European Congress of Endocrinology 2022. Endocrine Abstracts. Bioscientifica 81. 2022/5/7

Luigi Di Filippo, Lucrezia Albanese, Laura Castellino, Mauro Doga, Anna Maria Formenti, Stefano Frara, Francesca Perticone, Andrea Giustina. High prevalence of thoracic vertebral fractures in patients with medullary thyroid cancer. 24th European Congress of Endocrinology 2022. Endocrine Abstracts. Bioscientifica 81. 2022/5/7

Luigi Di Filippo, Nicola Compagnone, Stefano Frara, Agnese Allora, Mauro Doga, Patrizia Rovere-Querini, George Cremona, Andrea Giustina. Vertebral Fractures at hospitalization predict impaired respiratory function at follow-up of COVID-19 survivors. 24th European Congress of Endocrinology 2022. Endocrine Abstracts. Bioscientifica 81. 2022/5/7

Luigi di Filippo, Agnese Allora, Mauro Doga, Santina Battaglia, Riccardo Giusti, Fabrizio Nannipieri, Stefano Frara, Andrea Giustina, ODP594 Vitamin D Levels At Hospital Admission Predict Severity Of Covid-19: A Controlled Prospective Study. ENDO 2022 Endocrine Society's Annual Meeting. Journal of the Endocrine Society, Volume 6, Issue Supplement_1, November-December 2022, Page A148

Luigi di Filippo, Stefano Frara, Fabrizio Nannipieri, Alice Cotellessa, Massimo Locatelli, Patrizia Rovere-Querini, Andrea Giustina. Low 25 (OH) vitamin D levels are associated with Long COVID syndrome in COVID-19 survivors. 25th European Congress of Endocrinology 2023. Endocrine Abstracts. Bioscientifica 90. 2023/5/2

Chapter Book

Edoardo Guazzoni, Luigi di Filippo, Alberto Castelli, Andrea Giustina, Federico Grassi. Chapter 44 - Tissue location of SARS-CoV-2 RNA: A focus on bone and implications for skeletal health. Editor(s): Rajkumar Rajendram, Victor R. Preedy, Vinood B. Patel, Colin R. Martin. Management, Body Systems, and Case Studies in COVID-19, Academic Press, 2024, Pages 485-492, ISBN 9780443187032, <https://doi.org/10.1016/B978-0-443-18703-2.00016-5>

HONOURS AND AWARDS

Scientific Awards

2020 Springer Nature Research Highlights Diabetes & Endocrinology: "Hypocalcemia is highly prevalent and predicts hospitalization in patients with COVID-19" from Endocrine - Authors: Luigi Di Filippo et al.

23rd European Congress of Endocrinology 2021 Meeting Grant ePoster "Vitamin D deficiency is a key element in COVID-19 hypocalcemia" - Authors: Luigi Di Filippo et al.

24th European Congress of Endocrinology 2022 Meeting Grant Poster "Impact of COVID-19 vaccination on incidence of graves" - Authors: Luigi Di Filippo et al.

Winner Premio OrtoMed Section "Under 40 Presentazioni Orali 2022", XVII Congresso OrtoMed. Presentazione Orale "Ruolo della PET-colina nella diagnostica di un adenoma paratiroideo: un caso clinico di iperparatiroidismo normocalcemico plurifratturativo" - Autore: Luigi di Filippo et al.

Winner First Edition Premio "Alberto Angeli" per l'Eccellenza in Osteometabolismo 2024. 13° CUEM - Clinical Update in Endocrinologia e Metabolismo. Milano

INVESTIGATOR IN RESEARCH ACTIVITIES

Investigator in research activities

Co-investigator. Neuroendocrine regulation of bone-fat crosstalk in obesity PNRR-MCNT1- 2023-12377758. IRCCS Ospedale San Raffaele

Principal Investigator. Registro prospettico monocentrico dei pazienti in trattamento con vitamina D presso Ospedale San Raffaele. IRCCS Ospedale San Raffaele Milano

Principal Investigator. Vitamin D as a key regulator in fat-bone cross talk. Università Vita-Salute San Raffaele

Co-investigatore. Neuroendocrine mechanisms in adiposity: an integrated approach to the characterization of potential pharmacological novel targets based on experimental and clinical models. IRCCS Ospedale San Raffaele

Principal Investigator. Studio Osservazionale Retrospektivo del rischio di sviluppare sindrome Long-COVID dopo malattia acuta da COVID-19 e di contrarre infezione da SARS-CoV2 dopo vaccinazione anti-COVID-19 in relazione alla supplementazione con vitamina D3 in pazienti seguiti ambulatorialmente. IRCCS Ospedale San Raffaele (Retrospective observational study in the evaluation of risks of Long-COVID syndrome occurrence after acute COVID-19 disease and of SARS-CoV-2 infection after anti-COVID-19 vaccination related to vitamin D3 supplementation in outpatient setting)

Co-investigatore. Il Rapido switch dagli analoghi della Somatostatina di 1° generazione al Pasireotide nell'Acromegalia. IRCCS Ospedale San Raffaele (The rapid switch from 1st generation somatostatin analogues to pasireotide in Acromegaly)

Co-investigatore LONG VITA. Studio Osservazionale dei livelli ormonali di Vitamina 25(OH)D in relazione al recupero clinico ed alla presenza di Sindrome Long COVID a sei mesi dalla guarigione in Pazienti che sono stati affetti da malattia COVID-19. Ospedale San Raffaele

Co-investigatore VITA-VAX. Studio Osservazionale dei livelli ormonali di Vitamina 25(OH)D in relazione alla risposta immunitaria anticorpale sviluppata dopo vaccinazione anti-SARS-CoV-2 con vaccino Pfizer-BioNTech in soggetti sanitari ospedalieri. Ospedale San Raffaele

Co-investigatore RE-GRAVES. Registro Prospettico e Retrospektivo Epidemiologico Monocentrico dei casi di Malattia di Graves. Ospedale San Raffaele

Co-investigatore OsteoTIR. Studio della Prevalenza delle Complicanze Osteo-Metaboliche in Pazienti noti per Tumore Tiroideo. Ospedale San Raffaele

Co-investigatore Vitamin D-Calcium-Bone Covid 19. Ospedale San Raffaele

Co-investigatore VITA ("Vitamin D & microRNA-Inflammation & cytokines-zonulin-ACE2") study in COVID-19 investigation for future prevention. Ospedale San Raffaele

● **CONFERENCES AND SEMINARS**

Conferences Talks - Oral Communications - Seminars.1

OSTEOMASTER ALUMNI 1st MEETING 2020 - Osteoporosi e dintorni nell'era del COVID-19: Ipocalcemia

Incontri Italiani di Endocrinologia e Metabolismo 2020. Comunicazioni Orali: Ipocalcemia nei pazienti COVID-19: elevata incidenza e fattore di rischio per ospedalizzazione

22nd European Congress of Endocrinology 2020. Talk: Emerging aspect of endocrine diseases and COVID-19: Calcium

22nd European Congress of Endocrinology 2020. Oral Communication: Late breaking abstracts: Hypocalcemia is highly prevalent and predicts hospitalization in patients with COVID-19

Corso di Radioprotezione per laureati in Medicina in Centri che utilizzano un densitometro osseo a raggi X Desenzano del Garda (Bs) 2021: La diagnosi dell'Osteoporosi: la morfometria vertebrale

SICEM 2021 The 9th Seoul International Congress of Endocrinology and Metabolism in conjunction with the 40th Annual Scientific Meeting of the Korean Endocrine Society. Talk: HOT TOPIC 1: COVID-19 and Endocrine Disease: Hypocalcemia in COVID-19: Prevalence, Clinical Significance and Therapeutic Implications

23rd European Congress of Endocrinology 2021. Talk: Emerging endocrine abnormalities and Covid-19 outcomes: Fractures

Conferences Talks - Oral Communications - Seminars.2

Corso di Radioprotezione per laureati in Medicina in Centri che utilizzano un densitometro osseo a raggi X. Viareggio (LU) 2022. Hot Topic: Osteometabolismo in COVID-19, long COVID e vaccino anti COVID-19

Corso di Radioprotezione per laureati in Medicina in Centri che utilizzano un densitometro osseo a raggi X. Desenzano del Garda (BS) 2022. Hot Topic: Osteometabolismo in COVID-19, long COVID e vaccino anti COVID-19

BONE SUMMER CAMP 2022 Le osteoporosi secondarie. Desenzano del Garda. Il profilo osteo-metabolico di COVID-19

Corso di Radioprotezione per laureati in Medicina in Centri che utilizzano un densitometro osseo a raggi X. Napoli (NA) 2022. Hot Topic: Osteometabolismo in COVID-19, long COVID e vaccino anti COVID-19

10th Skeletal Endocrinology Meeting. Stresa 2023. Oral Communication: Bone Strain Index as a reliable bone parameter in a cohort of male patients

10th Skeletal Endocrinology Meeting. Stresa 2023. Oral Communication: Novel circulating micrnas as potential biomarker associating disease severity and vitamin D status in COVID-19 patients

XVII Congresso OrtoMed. Firenze 2023. Presentazione Orale: Ruolo della PET-colina nella diagnostica di un adenoma paratiroideo: un caso clinico di iperparatiroidismo normocalcemico plurifratturativo

Conferences Talks - Oral Communications - Seminars.3

BONE SUMMER CAMP 2023 La terapia dell'osteoporosi. Desenzano del Garda. Supplementare calcio e vitamina D: Come, quando e perché? (Meeting in treatment of osteoporosis: calcium and vitamin D)

I° Meeting Internazionale Bone Center San Raffaele Milano. Presentazione dati Ricerca Clinica. (First international meeting Bone Center: data from research activities)

15th Consensus Conference on Acromegaly: Medical Treatment: why, when and how. Barcelona

13° CUEM – Clinical Update in Endocrinologia e Metabolismo. Milano. Osteosarcopenia

Corso di aggiornamento in tema di patologia osteometabolica. Salute dell'osso e del muscolo: diagnosi, prevenzione e trattamento 2024. Ferrara. Micronutrienti e salute ossea: Vitamina D

BONE SPRING CAMP 2024 Come si ferma l'osteoporosi? Strumenti e Strategie. Viareggio. Gli strumenti terapeutici: Calcio e vitamina D. Un approccio all'osteoporosi patient centered: I servizi di supporto domiciliari (Meeting in therapeutic strategies in preventing and treating the osteoporosis: calcium and vitamin D; patients' support programs)

Corso di Radioprotezione per laureati in Medicina in Centri che utilizzano un densitometro osseo a raggi X 2024. Coccaglio. Hot Topic: La morfometria e le fratture vertebrali "opportunistiche": ruolo chiave per un nuovo approccio alle malattie osteometaboliche (Meeting in dual energy X rays absorptiometry application and safety: role of opportunistic vertebral morphometry to detect fragility fractures)

8th International Conference on Controversies in Vitamin D. Rome. Talk: Vitamin D and anti-COVID-19 vaccination

16th Consensus Conference on Acromegaly: Acromegaly complications. Sevilla. Talk: Body composition

II° Meeting Internazionale Bone Center San Raffaele Milano. Il paziente al Centro. Ricerca Clinica (Second international meeting Bone Center: data from research activities)

● PEER REVIEWER ACTIVITIES

Peer reviewer activities

Peer reviewer activities for: BMC Endocrine Disorders - BMC Infectious Diseases - BONE - Brazilian Journal of Health Biomedical Sciences - Clinical and Experimental Immunology - Clinical and Experimental Medicine - Clinical Chemistry and Laboratory Medicine - Clinical Nutrition - Endocrine - International Journal of Endocrinology - Journal of Clinical Endocrinology and Metabolism - Journal of Clinical and Translational Research - Journal of Endocrinological Investigations - Lipids in Health and Disease – Maturitas - Metabolism - Minerva Endocrinology - Molecular and Cellular Biochemistry - Nutrients - Obesity Research & Clinical Practice - Pituitary - Pathology and Laboratory Medicine International - Reviews in Endocrine and Metabolic Disorders - Scientific Reports - Trends in Endocrinology & Metabolism

● EDITORIAL ACTIVITIES

Editorial activities

2023-current Review Editor: Pituitary Endocrinology - Frontiers in Endocrinology, Frontiers

2023-current Guest Editor: Vitamin D: From Pathophysiology to Clinical Impact Volume I & II – Frontiers in Nutrition, Frontiers

2024-current Associate Editor: Pituitary, Springer

● EDUCATIONAL AND TEACHING ACTIVITIES

EDUCATIONAL AND TEACHING ACTIVITIES

2018-2024 University and hospital tutor for medicine students and fellows in endocrinology of the Università Vita-Salute San Raffaele, Milan, Italy, both as supervisor of degree medical research projects and for practical medical activities in the hospital Endocrinology Department

AA 2022/2023 Adjunct teacher in Endocrine and kidney diseases, International MD Program, Università Vita-Salute San Raffaele, Milan, Italy

AA 2022/2023 Research fellow and teacher in Endocrinology, Medical degree, Università Vita-Salute San Raffaele, Milan, Italy

AA 2023/2024 Adjunct teacher in University Master in Osteoporosis and Bone diseases, Università Vita-Salute San Raffaele, Milan, Italy

AA 2023/2024 Research fellow and teacher in the Endocrine and kidney diseases, International MD Program, Università Vita-Salute San Raffaele, Milan, Italy

AA 2023/2024 Research fellow and teacher in Endocrinology, Medical degree, Università Vita-Salute San Raffaele, Milan, Italy

AA 2023/2024 Research fellow and teacher in Medical Sciences, Dentistry degree, Università Vita-Salute San Raffaele, Milan, Italy

AA 2024/2025 Adjunct teacher in University Master in Osteoporosis and Bone diseases, Università Vita-Salute San Raffaele, Milan, Italy

● NETWORKS AND MEMBERSHIPS

Partecipations in scientific societies

Dr. Luigi di Filippo is a member of the following national and international endocrine scientific societies in which he constantly follows the proposed activities, the published clinical and research updates, and the organized congresses, seminars and webinars: Endocrine Society (ES) - European Society of Endocrinology (ESE) - Italian Society of Endocrinology (SIE) - Italian Society of Osteoporosis, Mineral Metabolism and Skeletal Diseases (SIOMMMS) - Italian Society of Diabetology (SID) - Glucocorticoid Induced Osteoporosis Skeletal Endocrinology Group (GIOSEG), in this last one Dr. Luigi di Filippo is a member of the GIOSEGovani Council.

Il/la sottoscritto/a, sotto la propria personale responsabilità e consapevole delle sanzioni previste dall'art.76 del DPR n.445 del 28/12/2000, per le ipotesi di falsità in atti e dichiarazioni mendaci, dichiara che quanto sopra riportato corrisponde al vero.

Milano , 23/12/2024



Luigi di Filippo