

PERSONAL INFORMATION

Sandro Mazzaferro

 Sandro.mazzaferro@uniroma1.it

Sex | Date of birth | Nationality Italian

POSITION

Full Professor of Nephrology, Sapienza University of Rome. Italy

WORK EXPERIENCE

- 2018 - today Chief of the Nephrology Unit at Policlinico Umberto I Hospital, Sapienza University of Rome
Full Professor of Nephrology, Sapienza University
- 2007 – 2017 Chief of the Nephrology and Dialysis Unit at ICOT Hospital, Polo Pontino of Sapienza University.
Latina. ITALY;
Associate Professor of Nephrology. Sapienza University of Rome.
- 1993-2007 Chief Medical Assistant at Policlinico Umberto I, 2 Medical Clinic, Nephrology and Dialysis Unit:
Ambulatory and In-patients activities in the management of chronic and acute renal failure patients,
including renal transplantation.
- 1998-1993 Medical Assistant at Policlinico Umberto I, 2 Medical Clinic, Nephrology and Dialysis Unit, Ambulatory
and In- patients activities, including management of acute and chronic renal failure.
- 1987-1988 Medical Assistant at the Emergency Unit of Civitacastellana Hospital (Viterbo-Italy).
- 1982-1987 Medical Assistant, Private Hemodialysis Units in Rome. Clinical evaluation and follow-up of
hemodialysis patients
- 1982-1987 Emergency, territorial Medical Care, Viterbo - ITALY.

Business or sector: Nephrology, Internal medicine, Mineral Metabolism

EDUCATION AND TRAINING

- 1984 – 1988 Post-graduate degree in Nephrology at Sapienza University of Rome
- 1979-1984 Post-graduate degree in Internal Medicine at Sapienza University of Rome
- 1974-1979 Graduate degree in Medicine and Surgery at Sapienza University of Rome

PERSONAL SKILLS

Mother tongue(s) Italian. + Spoken English

- Communication skills**
- Communication skills through experience as a teacher at Sapienza University.
 - Invited Speaker at hundreds of National and International Conferences

Organisational / managerial skills

Chief of Nephrology Unit at Policlinico Umberto I Hospital, Sapienza University of Rome Italy.

Chief of the Nephrology and Dialysis Unit at ICOT Hospital, Polo Pontino of Sapienza University of Rome (ITALY). Medical and nurse team of 20 people, on average

Director of the Post-Graduate School of Nephrology at Sapienza University of Rome (average of 20 fellows in Nephrology).

Chief of the Master (I Level) "Nefropatie Dialisi e Patologie Cardiovascolari" at Sapienza University of Rome

Teaching Activities. Applied Pathology II (Nephrology and Urology) at 6 Graduate Courses of Medicine at Sapienza University of Rome. Coordinator of the teaching in the following courses: "E" and "F", (respectively 100 and 40 students on average). In particular, Course "F" is in English language.

Job-related skills

Clinical management of patients with kidney diseases, acute and chronic renal insufficiency, nephrolithiasis and renal transplantation.

Good command of quality control processes (responsible for quality audits at the Nephrology and Dialysis Unit at ICOT Hospital, which is ISO 9000 certified).

Manager Certification Course: Title Corso di formazione manageriale per Direttori di Struttura Complessa. Sapienza University of Rome 2021

GCP Certificate Policlinico Umberto I Hospital 2020

ADDITIONAL INFORMATION



Publications	Author of scientific publications in the field of Nephrology: International peer reviewed articles (201 available in Scopus) and Book chapters. Scopus H Index: 35; Total citations 3799. (See last 30 below)
Projects	<p>Principal Investigator of several clinical research projects among which:</p> <p>2023 - Progetti di ricerca e sviluppo (DM 31/12/2021) – Progetto SIATE (Sistema di supporto alle decisioni cliniche basato su Intelligenza Artificiale per la personalizzazione della terapia emodialitica). Finanziato dal Ministero delle Imprese e Made in Italy</p> <p>2022 – Sapienza University – Research Projects Awards - An Artificial Intelligence-Based Triage System Automatically Alerting Clinicians on the Vascular Access Dysfunctions and the Metabolic Abnormalities of Chronic Hemodialysis Patients. Awarded 45.000,00 euros</p> <p>2021 - PNRR Finanziamento di una Borsa di Dottorato di Ricerca dal Titolo: Valutazione economica dell'impatto ambientale dei trattamenti dialitici ed individuazione dei possibili livelli di intervento per l'implementazione di una Green Dialysis.</p> <p>2019 – Società Italiana di Nefrologia. Research projects awards. Fractures and CKD-MBD . Awarded 38.000,00 euros</p> <p>2019 – Sapienza University – Research Projects Awards: Sclerostin expression in the vessel walls of end stage renal disease patients. Awarded 25.000,00 euros</p> <p>2018 – Sapienza University – Research Projects Awards: Aldosterone, Klotho and vascular damage in chronic renal failure patients- Awarded 10.000,00 euros</p> <p>2017 _ Sapienza University – Research Projects Awards: Changes in Oxygen Extraciton Ratio during haemodialysis in end stage renal failure patients. Awarded 8000,00 euros</p> <p>2015 – Sapienza University – Research Projects Awards : Relationship between bone damage and vascular damage in patients with type 2 diabetes mellitus. Awarded 5.000,00 euros</p> <p>2011 – Sapienza University - Research Projects Awards: Renal Osteodystrophy and bone cells regulating factors in dialysis patients. Awarded 14.000,00 euros</p> <p>2010 – Single Center Clinical Study – Use of Calcimimetic vs Oral Paricalcitol in renal transplant patients with persistent secondary hyperparathyroidism. No-Profit, Abbott PI Initiative support 63.000,00 euros</p> <p>2008 - Società Italiana di Nefrologia. Research projects awards: Studio Multicentrico sulla paratiroidectomia in Italia. 90.000,00 euros</p>
Conferences	<ul style="list-style-type: none"> - President of the Congress “Scuola Calcio Fosforo” held for 12 consecutive years - Invited speaker at hundreds of National and International Congresses - Coordinator of the Scientific Committee of the Italian Society of Nephrology 62nd Congress in Rimini 2021.
Honours and awards	<p>KDIGO Conference Board Member on CKD-MBD guideline review. Madrid September 28th 2023</p> <p>KDIGO Conference Board Member on CKD-MBD guidelines Madrid September 15th 2005</p> <p>Fellow of the American Society of Nephrology, since 2017</p> <p>Fellow of the ERA-EDTA, since 2015</p> <p>“S. Figus award”, Interregional Society of Nephrology ALaMMU, 1985;</p> <p>“Merck Sharp & Dome award”, under the auspices of the Italian Society of Internal Medicine, 1987;</p> <p>“Assisi Medicina award”, best contibution to the Cardioneurology International Congress, Assisi, 1991.</p>
Memberships	<ul style="list-style-type: none"> - 2018-2022: Vice Chair of the ERA-EDTA Working Group on CKD-MBD : Vice Chair - 2012-2018: Board and Founding Member: ERA-EDTA Working Group on CKD-MBD - 2006-2009: Coordinator: Italian Study Group on Mineral Metabolism <p>Ordinary Member of the following Societies:</p> <ul style="list-style-type: none"> - ERA-EDTA (2004 – today); - American Society of Nephrology (2007 – today) - International Society of Nephrology (2008-today); - Italian Society of Nephrology (1983-today); - Società Italiana Osteoporosi e Malattie Metaboliche dello Scheletro (2000-today).
Editorial Board/Activities	<p><i>Area Editor:</i> CKD-MBD: Journal of Nephrology (2015 – today)</p> <p><i>Editorial Board:</i> Kidney Blood Pressure Research (2020-today); Journal of Nephrology (2008-2015); Nephrology Dialysis and Transplantation (2013-2017); Giornale Italiano di Nefrologia (2010-today); Giornale di Tecniche Nefrologiche e Dialitiche (2012-today)</p> <p><i>Reviewer for the following Journals:</i> Nephrol Dial Transplant; J Nephrol; Scientific Rep; PlosOne; Int J Artificial Org; Transplantation; Clin J Am Soc Nephrol; Kidney Int; Giornale Italiano Nefrologia, Tecniche Nefrologiche e Dialitiche, J Endocrinol Invest, Am J Kidney Dis; Nephron Clin Prac; Clin Kidney J; Kidney Blood Press Res, J Clin Endocrinol Metab</p>

ANNEXES

Last 30 publications

- [Results of the implementation of a triage system of vascular access performance in hemodialysis patients : experience of a single centre.](#)
Mazzaferro S, Muci ML, Tartaglione L, Carbone L, De Santis C, De Vito C, Rotondi S.
J Nephrol 2022 April, 35 (3): 969-976
- [Focus on the Possible Role of Dietary Sodium, Potassium, Phosphate, Magnesium, and Calcium on CKD Progression.](#)
Mazzaferro S, de Martini N, Cannata-Andia J, Cozzolino M, Messa P, Rotondi S, Tartaglione L, Pasquali M, On Behalf Of The Era-Edta Ckd-Mbd Working Group.
J Clin Med. 2021 Mar 1;10(5):958. doi: 10.3390/jcm10050958.
PMID: 33804573 [Free PMC article](#). Review.
- [Oxygen extraction ratio to identify patients at increased risk of intradialytic hypotension.](#)
Rotondi S, Tartaglione L, De Martini N, Bagordo D, Caissutti S, Pasquali M, Muci ML, Mazzaferro S.
Sci Rep. 2021 Feb 26;11(1):4801. doi: 10.1038/s41598-021-84375-7.
PMID: 33637839 [Free PMC article](#).
- [Waves of infection and waves of communication: the importance of sharing in the era of Covid-19.](#)
Mazzaferro S, Rocca AR, Bagordo D; "Consulta Primari di Nefrologia del Lazio".
J Nephrol. 2021 Feb 3:1-4. doi: 10.1007/s40620-021-00974-7. Online ahead of print.
PMID: 33534067 [Free PMC article](#). No abstract available.
- [Inflammation, Oxidative Stress, and Bone in Chronic Kidney Disease in the Osteoimmunology Era.](#)
Mazzaferro S, Bagordo D, De Martini N, Pasquali M, Rotondi S, Tartaglione L, Stenvinkel P; ERA-EDTA CKD-MBD working group.
Calcif Tissue Int. 2021 Apr;108(4):452-460. doi: 10.1007/s00223-020-00794-0. Epub 2021 Jan 2.
PMID: 33388898 [Free PMC article](#). Review.
- [Risk factors and action thresholds for the novel coronavirus pandemic. Insights from the Italian Society of Nephrology COVID-19 Survey.](#)
Nordio M, Reboldi G, Di Napoli A, Quintaliani G, Alberici F, Postorino M, Aucella F, Messa P, Brunori G; Italian Society of Nephrology COVID-19 Research Group.
J Nephrol. 2021 Apr;34(2):325-335. doi: 10.1007/s40620-020-00946-3. Epub 2021 Jan 2.
PMID: 33387336 [Free PMC article](#).
- [Association between Multidimensional Prognostic Index and Hospitalization and Mortality among Older Adults with Chronic Kidney Disease on Conservative or on Replacement Therapy.](#)
Lai S, Amabile MI, Mazzaferro S, Imbimbo G, Mitterhofer AP, Galani A, Aucella F, Brunori G, Menè P, Molfino A, The Study Group On Geriatric Nephrology Of The Italian Society Of Nephrology Sin.
J Clin Med. 2020 Dec 7;9(12):3965. doi: 10.3390/jcm9123965.
PMID: 33297455 [Free PMC article](#).
- [Increase of renal resistive index and mineral metabolism disorder in patients with acute coronary syndrome with preserved renal function.](#)
Lai S, Gaudio C, Perrotta AM, Iorio R, Asllanaj B, Ferrigno L, Mangiulli M, Mariotti A, Menè P, Mazzaferro S, Barillà F; Study Group on Geriatric Nephrology of the Italian Society of Nephrology (SIN).
Eur Rev Med Pharmacol Sci. 2020 Nov;24(22):11690-11699. doi: 10.26355/eurrev_202011_23814.
PMID: 33275237
- [Effects of non-invasive ventilation on renal and endothelial function in patients with respiratory failure.](#)
Lai S, Mazzaferro S, Mitterhofer AP, Tinti F, Giovannetti A, Casella C, Perrotta AM, Mastroluca D, Galani A, Marra A, Mazzarella A, Oliva A, Mastroianni CM, Palange P.
Eur Rev Med Pharmacol Sci. 2020 Nov;24(21):11374-11380. doi: 10.26355/eurrev_202011_23629.
PMID: 33215458
- [Bone biopsy in chronic kidney disease: still neglected and in need of revitalization.](#)
Mazzaferro S, Pasquali M.
Nephrol Dial Transplant. 2021 Jan 25;36(2):202-204. doi: 10.1093/ndt/gfaa269.
PMID: 33188695 No abstract available.
- [European Consensus Statement on the diagnosis and management of osteoporosis in chronic kidney disease stages G4-G5D.](#)
Evenepoel P, Cunningham J, Ferrari S, Haarhaus M, Javaid MK, Lafage-Proust MH, Prieto-Alhambra D, Torres PU, Cannata-Andia J; European Renal Osteodystrophy (EUROD) workgroup, an initiative of the CKD-MBD working group of the ERA-EDTA, and the committee of Scientific Advisors and National Societies of the IOF.
Nephrol Dial Transplant. 2021 Jan 1;36(1):42-59. doi: 10.1093/ndt/gfaa192.
PMID: 33098421 Review.
- [Renal resistive index in IgA nephropathy and renal scleroderma vasculopathy.](#)
Cianci R, Gigante A, Bagordo D, Pintus G, Giovannetti A, Lai S, Mazzaferro S, Rosato E.

Microvasc Res. 2021 Jan;133:104095. doi: 10.1016/j.mvr.2020.104095. Epub 2020 Oct 7.
PMID: 33035555

[Cardiovascular risk and quality of life in autosomal dominant polycystic kidney disease patients in therapy with tolvaptan: A pilot study.](#)

Lai S, Mangiulli M, Perrotta AM, Gigante A, Napoleoni L, Cipolloni E, Mitterhofer AP, Gasperini ML, Muscaritoli M, Cianci R, Giovannetti A, Falco F, Mastroluca D, Mazzaferro S.

Curr Vasc Pharmacol. 2020 Sep 17. doi: 10.2174/1570161118999200918094809. Online ahead of print.
PMID: 32957887

[Autonomic dysfunction in kidney diseases.](#)

Lai S, Bagordo D, Perrotta AM, Gigante A, Gasperini ML, Muscaritoli M, Mazzaferro S, Cianci R.

Eur Rev Med Pharmacol Sci. 2020 Aug;24(16):8458-8468. doi: 10.26355/eurrev_202008_22643.
PMID: 32894552 Review.

[Prebiotic Therapy with Inulin Associated with Low Protein Diet in Chronic Kidney Disease Patients: Evaluation of Nutritional, Cardiovascular and Psychocognitive Parameters.](#)

Lai S, Mazzaferro S, Muscaritoli M, Mastroluca D, Testorio M, Perrotta A, Esposito Y, Carta M, Campagna L, Di Grado M, Ramaccini C, De Leo S, Galani A, Amabile MI, Molfino A.

Toxins (Basel). 2020 Jun 9;12(6):381. doi: 10.3390/toxins12060381.
PMID: 32526852 [Free PMC article.](#)

[Dialysate calcium concentration during calcimimetic treatment: a neglected issue.](#)

Locatelli F, Rotondi S, Del Vecchio L, Mazzaferro S.

J Nephrol. 2021 Feb;34(1):19-22. doi: 10.1007/s40620-020-00741-0.
PMID: 32342328 No abstract available.

[A new technique for measuring fistula flow using venous blood gas oxygen saturation in patients with a central venous catheter.](#)

Rotondi S, Tartaglione L, Muci ML, Pasquali M, Pirozzi N, Mazzaferro S.

Clin Kidney J. 2019 Jun 1;13(2):184-187. doi: 10.1093/ckj/sfz064. eCollection 2020 Apr.
PMID: 32296523 [Free PMC article.](#)

[Bone, inflammation and chronic kidney disease.](#)

Mazzaferro S, De Martini N, Rotondi S, Tartaglione L, Ureña-Torres P, Bover J, Pasquali M; ERA-EDTA Working Group on CKD-MBD.

Clin Chim Acta. 2020 Jul;506:236-240. doi: 10.1016/j.cca.2020.03.040. Epub 2020 Apr 8.
PMID: 32275989 Review.

[Effects of sunitinib on endothelial dysfunction, metabolic changes, and cardiovascular risk indices in renal cell carcinoma.](#)

Lai S, Amabile MI, Mazzaferro S, Mitterhofer AP, Mazzarella A, Galani A, Imbimbo G, Cianci R, Pasquali M, Molfino A; Study Group on Geriatric Nephrology of the Italian Society of Nephrology (SIN).

Cancer Med. 2020 Jun;9(11):3752-3757. doi: 10.1002/cam4.2910. Epub 2020 Apr 9.
PMID: 32270594 [Free PMC article.](#)

[On the role of skin biopsy in the diagnosis of calcific uremic arteriopathy: a case-based discussion.](#)

Rotondi S, De Martini N, Tartaglione L, Muci ML, Petrozza V, Porta N, Leopizzi M, Proietti I, Potenza C, Skroza N, Mazzaferro S.

J Nephrol. 2020 Aug;33(4):859-865. doi: 10.1007/s40620-019-00678-z. Epub 2019 Dec 2.
PMID: 31792896

[α-lipoic acid in patients with autosomal dominant polycystic kidney disease.](#)

Lai S, Petramala L, Muscaritoli M, Cianci R, Mazzaferro S, Mitterhofer AP, Pasquali M, D'Ambrosio V, Carta M, Ansuini M, Ramaccini C, Galani A, Amabile MI, Molfino A, Letizia C.

Nutrition. 2020 Mar;71:110594. doi: 10.1016/j.nut.2019.110594. Epub 2019 Sep 27.
PMID: 31790890 Clinical Trial.

[Renal involvement and metabolic alterations in adults patients affected by cystic fibrosis.](#)

Lai S, Mazzaferro S, Mitterhofer AP, Bonci E, Marotta PG, Pelligra F, Murciano M, Celani C, Troiani P, Cimino G, Palange P.

J Transl Med. 2019 Nov 25;17(1):388. doi: 10.1186/s12967-019-02139-4.
PMID: 31767021 [Free PMC article.](#)

[Calciophylaxis: a conundrum for patients and nephrologists?](#)

Pasquali M, De Martini N, Mazzaferro S.

J Nephrol. 2019 Oct;32(5):677-680. doi: 10.1007/s40620-019-00639-6. Epub 2019 Aug 30.
PMID: 31471817 No abstract available.

[Direct bone effects of calcimimetics in chronic kidney disease?](#)

Mazzaferro S, Pasquali M.

Kidney Int. 2019 May;95(5):1012-1014. doi: 10.1016/j.kint.2019.01.045.
PMID: 31010472

[Effects of Sevelamer Carbonate in Patients With CKD and Proteinuria: The ANSWER Randomized Trial.](#)

Ruggiero B, Trillini M, Tartaglione L, Rotondi S, Peticucci E, Tripepi R, Aparicio C, Lecchi V, Perna A, Peraro F, Villa D, Ferrari S,

Cannata A, Mazzaferro S, Mallamaci F, Zoccali C, Bellasi A, Cozzolino M, Remuzzi G, Ruggenti P, Kohan DE; ANSWER Study Organization.

Am J Kidney Dis. 2019 Sep;74(3):338-350. doi: 10.1053/j.ajkd.2019.01.029. Epub 2019 Apr 23.

PMID: 31027883 Clinical Trial.

[Uroflowmetry alterations in patients with autosomal dominant polycystic kidney disease.](#)

Lai S, Mitterhofer AP, Cianci R, Riviello L, Vocaturi M, Mastroluca D, Ciccariello M, Von Heland M, Ricciuti GP, Salciccia S, Mazzaferro S.

Eur Rev Med Pharmacol Sci. 2019 Apr;23(7):2734-2743. doi: 10.26355/eurrev_201904_17546.

PMID: 31002123

[Novel insights into parathyroid hormone: report of The Parathyroid Day in Chronic Kidney Disease.](#)

Ureña-Torres PA, Vervloet M, Mazzaferro S, Oury F, Brandenburg V, Bover J, Cavalier E, Cohen-Solal M, Covic A, Drüeke TB, Hindí E, Evenepoel P, Frazão J, Goldsmith D, Kazama JJ, Cozzolino M, Massy ZA; ERA-EDTA CKD-MBD Working Group.

Clin Kidney J. 2018 Jul 20;12(2):269-280. doi: 10.1093/ckj/sfy061. eCollection 2019 Apr.

PMID: 30976408 [Free PMC article.](#)

[Sarcopenia and cardiovascular risk indices in patients with chronic kidney disease on conservative and replacement therapy.](#)

Lai S, Muscaritoli M, Andreozzi P, Sgreccia A, De Leo S, Mazzaferro S, Mitterhofer AP, Pasquali M, Protopapa P, Spagnoli A, Amabile MI, Molino A.

Nutrition. 2019 Jun;62:108-114. doi: 10.1016/j.nut.2018.12.005. Epub 2018 Dec 11.

PMID: 30875540

[Clinical impact of vitamin D hydroxylation efficiency.](#)

Pasquali M, Tartaglione L, Rotondi S, Muci ML, Farcomeni A, Marangella M, Mazzaferro S.

Minerva Med. 2019 Jun;110(3):259-262. doi: 10.23736/S0026-4806.19.06029-4. Epub 2019 Feb 22.

PMID: 30809997 No abstract available.

[Multicenter study on parathyroidectomy \(PTX\) in Italy: preliminary results.](#)

Mazzaferro S, Tartaglione L, Cascone C, Di Daniele N, Pani A, Morosetti M, Francisco M, Nordio M, Leonardi M, Martello M, Grimaldi C, Cozzolino M, Rotondi S, Pasquali M; Italian Study Group on Mineral Metabolism.

J Nephrol. 2018 Oct;31(5):767-773. doi: 10.1007/s40620-018-0527-x. Epub 2018 Aug 28.

PMID: 30155676

[Bone, inflammation and the bone marrow niche in chronic kidney disease: what do we know?](#)

Mazzaferro S, Cianciolo G, De Pascalis A, Guglielmo C, Urena Torres PA, Bover J, Tartaglione L, Pasquali M, La Manna G.

Nephrol Dial Transplant. 2018 Dec 1;33(12):2092-2100. doi: 10.1093/ndt/gfy115.

PMID: 29733407 Review.

[Oxygen Extraction Ratio \(OER\) as a Measurement of Hemodialysis \(HD\) Induced Tissue Hypoxia: A Pilot Study.](#)

Rotondi S, Tartaglione L, Muci ML, Farcomeni A, Pasquali M, Mazzaferro S.

Sci Rep. 2018 Apr 4;8(1):5655. doi: 10.1038/s41598-018-24024-8.

PMID: 29618823 [Free PMC article.](#) Clinical Trial.

Date: Aug 2023.

Signature: Mazzaferro Sandro:

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."

"Dichiara, altresì, di essere informato ai sensi e per gli effetti di cui al D.Lgs n.196/2003 (Codice in materia di protezione dei dati personali del 30/06/2003) e dell'Art. 13 del Regolamento UE 679/2016, che i dati personali raccolti saranno trattati, anche con strumenti informatici, esclusivamente nell'ambito del procedimento ECM per il quale la presente dichiarazione viene resa. Autorizzo il trattamento dei miei dati personali ai sensi del D.Lgs sopra menzionato." scannerizzato e inviato a mezzo e-mail;