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# Enrico Cocchi - MD, PhD

*curriculum vitae*

March | 2024

# Enrico Cocchi

*Doctor of Medicine (MD), Philosophiae Doctor (PhD)*

**birthdate** | December 29<sup>th</sup>, 1989



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| +01(929)6248982

**profiles** |



## Profile

### ***1. Pediatric and Neonatal Medicine***

Full-trained pediatric and neonatal intensivist. Professional Master Program in Pediatric/Neonatal Anesthesia and Intensive Care. Long experience in kidney and liver transplantation post-surgery patient management. Additional certified specialization in pediatric sedation, airway management, central venous catheters, Pediatric Advanced Life Support and ultrasonography.

### ***2. Molecular Pathology***

Long experience in clinical genetics, especially in Exome and Genome Sequencing data interpretation, on which my research experience at Columbia University focused. Most of my published papers and research projects especially focus on investigation of molecular mechanisms underpinning human pathology.

### ***3. Advanced Statistical Modelling***

My PhD project at University of Turin and Postdoctoral program at Columbia University focused on development of Epidemiological and Clinical Genetic complex statistical models and big-data approaches aimed to improve our current analysis methods in clinical and epidemiological studies.

### ***4. Programming***

Extremely valuable experience in Python, C++, R, CWL, WDL and Linux system administration, including network. I personally designed and deployed a web-based platform for molecular pathology actually in service at Columbia University Medical Center, and several other bioinformatic tools, some listed in my [GitHub repositories](#).

### ***5. Research Funding***

Winner of the 2021 [Jared J. Grantham Research Fellowship Grant](#) and several other minor research grants.

# Work experience

## **Pediatrics and Neonatal Intensive Care**

Santa Maria delle Croci Hospital, Ravenna | ITA

March 2024 | Present

## **Neonatal and Pediatric Intensive Care**

Maurizio Bufalini Hospital, Cesena | ITA

September 2022 | March 2024

## **Research Scientist**

Columbia University, Gharavi Lab, New York | USA

January 2019 | Present

## **Research Collaborator**

UNITO, Pediatric Nephrology and Transplantation Genetics, Turin | Italy

December 2015 | Present

## **Pediatric Residency**

Università degli Studi di Torino, Torino | Italy

November 2015 | November 2020

## **Research Collaborator**

DIBINEM, Biomedical and Neuromotor Science Department, Bologna | Italy

March 2013 | October 2015

# Education

## **Postdoctoral Fellow**

Columbia University Medical Center, New York | USA

January 2019 | December 2020

## **Master Degree in Pediatric and Neonatal Intensive Care and Anesthesia**

University of Brescia, Brescia | ITA

March 2023 | March 2024

## **PhD - Pharmaceutical and Biomolecular Sciences**

Università degli Studi di Torino, Turin | ITA

October 2019 | Mar 2023

## **Pediatric Residency**

Università degli Studi di Torino, Turin | ITA

November 2015 | November 2020

## **Medicine Master Degree**

Università degli Studi di Bologna, Bologna | ITA

October 2008 – July 2014

## **Erasmus Project**

Universitat de Barcelona, Barcelona | SPA

September 2011 | September 2012

## **Human Gross Anatomy Course**

New York University, New York | USA

June 2010 | August 2010



COLUMBIA  
UNIVERSITY



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# Scientific Production

Scopus h-index: 13 || Scopus citations: 405 || publications: 59 || book chapters: 2

## International Awards

### **Jared J. Grantham Research Fellowship grant**

May 2021 | American Society of Nephrology | US  
Somatic Mutations in Kidney Disease

### **Think Ahead Prize - Best Poster Award**

Nov 2021 | Italian Society of Nephrology | Italy  
Genetic analysis of IgA Nephropathy discordant monozygotic twins

### **G. Rizzoni prize - Best Oral Communication**

Nov 2018 | Italian Society of Pediatric Nephrology | Italy  
IgA Nephropathy is associated with CD46 expression

### **Investigator Award**

Nov 2019 | Barcelona | Spain  
Clinical Transplantation Day

### **Young Investigator Travel Award**

Oct 2019 | Venezia | Italy  
International Pediatric Nephrology Association

### **Young Investigator Travel Award**

June 2017 | Vicenza | Italy  
International Renal Research Institute

### **Young Investigator Travel Award**

April 2014 | Miami, Florida | USA  
American Society of Clinical Pharmacology

### **Young Investigator Travel Award**

October 2013 | Boston, Massachusetts | USA  
ISPG



## Teaching and Presentations

### **Teaching and Tutoring**

- Internship Students Tutor at Columbia University
- Research Tutor for Resident Doctors at Turin University
- >20 oral presentations at Important International Meetings  
(ASN KW 2020-22, ASHG 2020/21, CTD 2019, et al.)
- >50 poster presentations at Important International Meetings
- Teacher for several lessons at Columbia and Turin University

## Languages

**Italian** | mother tongue

**English** | fluent | IELTS 7/9 and 3 years of working experience

**Spanish** | fluent

**Catalan** | fluent

**French** | elementary



# **Publication Brief List**

1. ***Air Pollution and Aeroallergens as Possible Triggers in Preterm Birth Delivery.*** **Cocchi Enrico**, Bellisario Valeria, [...], Bono Roberto. International Journal of Environmental Research and Public Health. Jan 2023. 10.3390/ijerph20021610
2. ***Reduced mortality in COVID-19 patients treated with colchicine: Results from a retrospective, observational study.*** Manenti Lucio, [...], **Cocchi Enrico**, [...], Peruzzi Licia. PLoS ONE. March 2021. 10.1371/journal.pone.0248276
3. ***Rare Single Nucleotide and Copy Number Variants and the Etiology of Congenital Obstructive Uropathy: Implications for Genetic Diagnosis.*** Dina Arham, [...], **Cocchi Enrico**, [...], Sanna-Cherchi. Journal of the American Society of Nephrology. March 2023. 10.1681/ASN.0000000000000132
4. ***Oxidative Stress in the Early Neonatal Period as a Possible Effect of BMI, Smoking Habits, and Level of Urbanization of the Mother.*** **Cocchi Enrico**, Squillacioti Giulia, [...], Bono Roberto. Journal of Biological Regulators. February 2023. doi: 10.23812/j.biol.regul.homeost.agents.20233702.118.
5. ***Defective gene expression of the membrane complement inhibitor CD46 in patients with progressive immunoglobulin A nephropathy.*** Coppo R, Peruzzi L, [...], **Cocchi E**, [...], Kaminska D, Krajewska M; VALIGA Study Group. Nephrol Dial Transplant. 2018 Apr 9. doi: 10.1093/ndt/gfy064
6. ***Clinical exome sequencing is a powerful tool in the diagnostic flow of monogenic kidney diseases: an Italian experience.*** Vaisitti T., Sorbini M., **Cocchi E.**, [...], Deaglio S. Journal of Nephrology. Dec 2020. DOI 10.1007/s40620-020-00898-8
7. ***Acute and chronic glomerular damage is associated with reduced CD133 expression in urinary extracellular vesicles.*** V. Dimuccio, L. Peruzzi, M. Brizzi, **E. Cocchi**, [...], G. Camussi, and B. Bussolati. AIP-renal. 2019 Dec. In printing
8. ***Post-transplant recurrence of steroid resistant nephrotic syndrome in children: the Italian experience.*** Morello W, Puvinathan S, [...], **Cocchi E**, [...], Montini G. J Nephrol. 2019 Oct 15. doi: 10.1007/s40620-019-00660-9
9. ***Old and New Treatment Options in IgA Nephropathy and Henoch Schönlein Purpura Nephritis/IgA Vasculitis in Children.*** L Peruzzi. **E Cocchi**. F. Tarizzo. Curr Treat Opt in Pediatrics. June 2019. doi: 10.1007/s40746-019-00168-1
10. ***Colchicine: An Impressive Effect on Post-Transplantation Capillary Leak Syndrome and Renal Failure*** **Cocchi E**, [...], Fagioli F, Peruzzi L Pediatrics. 2019 May. 10.1542/peds.2018-2820.
11. ***Continuous venovenous hemodialysis (CVVHD) with CARPEDIEM™: first clinical experiences*** Vidal E, **Cocchi E**, [...], Murer L, Ronco C. Blood Purification. 2018 Oct. DOI: 10.1159/000494437
12. ***Oxidative Stress in the Early Neonatal Period as a Possible Effect of BMI, Smoking Habits, and Level of Urbanization of the Mother.*** **Cocchi E.**, Squillacioti G., [...], Bono R. JBRHA February 2023. DOI: 10.23812/j.biol.regul.homeost.agents.20233702.118

**Full List of Publications** is available at my [Google Scholar](#) or [Researchgate](#) profile