

CURRICULUM VITAE

Luigi Biancone

Full Professor of Nephrology, University of Torino

**Director, Division of Nephrology Dialysis and Renal Transplantation
Head, Renal Transplantation Program, "Città della Salute e della Scienza" University
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Coordinator, Nephrology Residency Program, University of Torino

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A. Personal

Name: Luigi Biancone

Date and Place of birth: 17.3.1967; Torino, Italy

Citizenships: Italian

Languages other than Italian: English (fluent),
French (conversational)

B. Education

Undergraduate Education

1980-1985; Liceo Classico, Torino Italy

Medical Education

1985-1991: School of Medicine, University of Torino, 1985-1991.

Graduated with honor, 1991.

06/1988-09/1988, New York NY USA, State University of New York at Brooklyn, Division of Nephrology, Visiting Medical Student, under the supervision of Eli Friedman, MD.

Postgraduate Training

1991-1995, Parma Italy, University of Parma, Institute of Internal Medicine and Nephrology, PhD program "Pathophysiology of chronic renal failure".

1993-1996, Boston MA, USA, Pathology Research Laboratory, Department of Pathology, Massachusetts General Hospital and Harvard Medical School, Post-doctoral Fellow in Pathology under the supervision of Ivan Stamenkovic, MD.

1996-2000: Internship and Residency in Internal Medicine, Varese Italy, University of Insubria.

08/1997-11/1997, Boston MA, USA, Renal Unit, Massachusetts General Hospital and Harvard Medical School, visiting MD under the supervision of John Niles, MD.

05/2001-11/2001, Miami FL USA, University of Miami, Diabetes Research Institute (Head Camillo Ricordi), Research Associate.

C. Academic appointments

Current Faculty Positions

2016-present. Torino Italy, Department of Internal Medicine, University of Torino School of Medicine, Full Professor of Nephrology.

2010-2012 and 2014-present Coordinator, Nephrology Residency Program, University of Torino.

2012-present Director, Division of Nephrology Dialysis and Renal Transplantation (SC Nefrologia Dialisi e Trapianto) "Città della Salute e della Scienza" University Hospital, Torino.

2012-present Head, Renal Transplantation Program, "Città della Salute e della Scienza" University Hospital, Torino – Presidio Molinette.

Previous Faculty Position at Other Institutions

11/ 2000-2005, Torino Italy, Department of Internal Medicine, University of Torino School of Medicine, Assistant Professor of Nephrology.
2005-2016, Torino Italy, Department of Internal Medicine, University of Torino School of Medicine, Associate Professor of Nephrology.

D. Other information

Honors or Awards

2001 Award of Excellence from Diabetes Research Institute University of Miami.

Board Eligibility/Certification

1991 Esame di Stato (Italian State Medical Exam)

2000 Specializzazione in Medicina Interna (Italian Board in Internal Medicine), cum laude

2012 national scientific board for full professor in nephrology

E. Research activity

-Pathophysiology of renal diseases: 1) he performed several studies on the role of terminal complement component in the development of tissue injury (Kidney Int 45:451-460, 1994; Int Arch Allergy Immunol 102:216-223, 1993; Nephrol Dial Transpl 12:51-56, 1997 ; World J Transplant. 2014 Sep 24;4(3):168-75), demonstrating the importance of complement activation in tubulointerstitial damage. 2) he performed several studies in collaboration with virologists on the role of viruses in the development of virus-associated glomerular diseases, providing a link between virus infection and tissue injury (J Virol 71:9180-9187, 1997; J Med Virol 54:44-53, 1998; J Clin Invest 102:2041-2049, 1998; AIDS 14(13):2045-7, 2000). 4) he studied the possibility to interfere with lymphocyte costimulatory molecules in the development of glomerulonephritis and kidney transplantation (Kidney Int. 48:458-468, 1995; J Exp Med 184:811-819, 1996; J. Exp. Med. 183:1473-1481, 1996; Int J Mol Med 3: 343-353, 1999), detected their expression in kidney biopsies from renal transplants (Nephrol Dial Transpl 13:716-722, 1998; Transplantation Proc 30:2384-2386, 1998) and collaborated to the development of new therapeutic agents (J Immunol. 167(8):4222-9, 2001; J Mol Med. 2009 Feb;87(2):181-97).

-Transplant Immunology: he focused his research on antibody-mediated rejection from the study of cellular mechanisms of antibody-endothelium interaction to the analysis of immunophenotype in patients (Transplantation 62:973-985, 1996; J Immunol 162: 5263-5269, 1999; Transplantation 70(8):1198-205, 2000; Transpl Immunol 2013 Jan;28(1):48-56)

-Clinical renal transplantation: 1) he focused on several aspects of complications of renal transplantation such as mTOR-induced proteinuria (Am J Transplant. 2010 Oct;10(10):2270-8), transplant-glomerulopathy (Transpl Immunol. 2015 Sep;33(1):7-12); 2) he provided recommendation for living donor kidney transplantation (Transpl Int. 2016 Jan;29(1):129-31; Transplantation. 2016 Feb;100(2):270-1) 3) and defined biomarkers for post-transplant monitoring (PLoS One. 2015 Jun 30;10(6):e0129279; PLoS One. 2014 Aug 6;9(8):e104490).

-Stem cells: through the collaboration with top groups in the field his activity was articulated in: 1) the study of the effect mesenchymal stem cells on acute kidney injury repair providing hints on the mechanisms of homing (Kidney Int. 2007 Aug;72(4):430-41; Nat Rev Nephrol. 2014 Feb;10(2):67-8.); 2) the study of the effect of exosomes in kidney repair (PLoS One. 2014, Kidney Int. 2010 Nov;78(9):838-48, Nephrol Dial Transplant. 2014 Nov;29(11):2004-11).

-Glomerulonephritis: 1) his work has initially focused on the role of inflammatory mediators such as platelet-activating factor in the development of proliferative glomerulonephritis; additionally a new inflammatory function of Fas-fasL interaction was observed (J. Am.Soc.Nephrol. 2:1251-1261, 1992; Semin. Thromb. Hemost. 20:214-222, 1994; Am J Pathol. 158(5):1723-31, 2001; J Exp Med 186:147-152, 1997). 2) then he focused on the pathogenetic mechanisms of proteinuria including damage of slit-diaphragm by different agents (Kidney Int 43 (S39): S32-S36, 1993; Kidney Int. 48:458-468, 1995; J. Exp. Med. 183:1473-1481, 1996; . Am J Pathol. 158(5):1723-31, 2001; Am J Transplant. 2010 Oct;10(10):2270-8).

He is author of 130 peer-reviewed international publications with a H-index 34 by Scopus and 4064 total citations.

Some of this papers were published on the cover of Journal of Experimental Medicine (7 July 1997), Journal of Clinical Investigation (15 December 1998), and American Journal of Transplantation (December 2010).

F. Clinical activity

From 2000 to 2012 he was appointed as assistant professor of nephrology (2000-2005) and then associate professor of nephrology (2005-present) of the University of Torino, also by the Hospital "Città della Salute e della Scienza di Torino".

In the setting of kidney transplantation, his clinical activity ranged from the handling of renal transplant patients at high immunological risk, to transplants from ECD-donors included dual kidney transplants, living-donor kidney transplants and combined pancreas-kidney and liver-kidney transplants. He has clinically managed from the beginning 815 kidney transplants, in terms of post-transplant ICU, immunosuppression management, and ambulatory follow-up, including performing kidney biopsies.

Regarding the activation of a program of islet-kidney transplantation he has performed all the phases from patients selection to islet transplantation, performing the first islet transplantation in the Molinette Hospital, the 9th of July 2007.

He has spent full time service in the dialysis Unit of the Molinette Hospital from 2007 to 2009, that performs around 19000 hemodialysis treatment per year. He followed patients on chronic hemodialysis and on critical care.

He has spent full time service in the nephrology ward from 2009 to 2012 focusing on glomerulonephritis diagnosis and treatment.

From 2012 he is Director of Division of Nephrology Dialysis and Renal Transplantation (SC Nefrologia Dialisi e Trapianto) "Città della Salute e della Scienza" University Hospital, Torino and Head, Renal Transplantation Program, "Città della Salute e della Scienza" University Hospital, Torino – Presidio Molinette.

The Division includes the renal transplantation center which is the largest in the country (more than 3500 renal transplants from its beginning), 4 dialysis units (2 of them within the

hospital) which perform about 32000 dialysis treatments per year, a dedicated nephrologic wards with 24 beds, and several out-patients clinics within the different buildings of the Hospital. Inside the Division, 25 Nephrologists, 11 Renal Fellow and 7 specialized nurse equipes perform their service.

G. Teaching activity

1995-1996: certificated as “Cultore della Materia in Immunologia Clinica e Allergologia” at the University of Insubria- Medical School- Varese.

1997-2000: certificated as “Cultore della Materia in Nefrologia” at the University of Insubria- Medical School- Varese.

1996-1997: Appointed contract professor for clinical immunology and allergology. at the University of Insubria- Medical School- Varese.

1998-1999: teacher at the “Corso di perfezionamento in biotecnologie applicate alla sostituzione d’organo”, University of Torino.

In 2001/2002 he served as teacher of “ Disciplina Nefrologia I del corso integrato di Medicina Generale e Specialistica (II anno)” and “Nefrologia II del corso integrato di Riabilitazione delle Disabilità Viscerali e delle Disabilità Speciali (III anno)” of the D.U. Fisioterapia, Università di Torino.

From 2001 he is teacher at the Nephrology Residency Program “ Scuola di Specializzazione in Nefrologia”, Università di Torino.

From 2002/2003-present He is teacher of “Disciplina Nefrologia del corso integrato di Medicina Generale e Specialistica” D.U. Fisioterapia, Università di Torino.

From 2002/2003 to 2014 he is teacher of “Corso di Malattie Endocrinometaboliche e Nefrourologiche “ at the Medical School, University of Torino.

Dall'Anno Accademico 2006-2007 to 2012 he was teacher of “Disciplina Nefrologia nel corso integrato Malattie Specialistiche” at the “Diploma Universitario in Scienze Infermieristiche sede di Asti”.

From 2013 to present he is teacher of “Nefrologia ” at the “Corso di clinica e patologia dell’addome e endocrinologia” Medical School, University of Torino.

2010-2012 and 2014-present Coordinator, Nephrology Residency Program, University of Torino.

H. National Scientific partecipations

1. Journal Editorial Boards

Ad hoc reviewer for Transplantation, Journal of Nephrology, Nature Biotechnology, PlosOne, Kidney International, Giornale Italiano di Nefrologia.

Associate Editor of Minerva Urologica e Nefrologica.

Editorial Board of Journal of Nephrology.

2. Grant reviews

Grant reviewer for the Dutch Kidney Foundation, British Wellcome Trust.

3. Professional Societies

1992 European Dialysis Transplantation Association (EDTA).

1994 American Society of Nephrology.

1998 Società Italiana di Nefrologia (SIN).

2008 Società Italiana di Trapianti D'organo (SITO) (current Board Member of Kidney Transplantation Section)
2000 Associazione InterRegionale Trapianti (AIRT) (2008-2010 Board Member)