

CURRICULUM PROF. EMANUELE COZZI

Name Emanuele Cozzi
DoB:
Institution: Padua University Hospital
Department: Transplantation Immunology Unit
Position: Director

Education

1977 College Saint Servais (Liege - Belgium)
1984 Degree in Medicine and Surgery at the Medical School of the University of Padua
1987 Specialisation in Allergology and Immunology at the University of Padua
1991 Specialisation in Geriatrics and Gerontology at the University of Padua
2001 PhD in Immunology at the University of Cambridge

Current positions

2012-present Director, Transplantation Immunology Unit, Dept. of Cardio-Thoraco-Vascular Sciences and Public Health, Padua University Hospital
2020-present Full Professor, Health Sciences and Applied Medical Technologies, Padua University Hospital

Previous positions

1994-2001 Clinical Research Associate, Department of Surgery, University of Cambridge
1994-2001 Honorary Registrar, Addenbrooke's University Hospital, Cambridge
2001-2004 Clinical Immunologist, Padua University Hospital, Padua
2004-2012 Director, Clinical and Experimental Transplantation Immunology Unit, Padua University Hospital, Padua

Fellowships

1988-1991 Research Fellow, Dept. of Immunology of New York Medical College - Vallhalla - New York (USA)

Teaching activities

2002-2009 Professor of Immunology, Medical Degree at the Medical University School of Medicine, Milan Bicocca, Milan
2012-2016 Professor of Immunopathology in kidney transplantation at the Specialization School Nephrology, University of Padua, Padua
2011-2019 Professor of Transplantation Immunology at the Specialization School of Thoracic Surgery, University of Padua
2020-present Full Professor at the University of Padua, Padua

Organization of scientific meetings

- Organizer and Congress Co-Chair of the Joint Meeting of the International Pancreas and Islet Transplant Association and International Xenotransplantation Association (IPITA-IXA Meeting 2009), held in Venice on October 12-16, 2009.
- Organizer of the EU-funded Conference: *"What's hot, what's new in xenotransplantation"*, held in Padua on April 2, 2012.
- Organizer of the EU-funded Conference: *"Animal-derived heart valves for the treatment of cardiac patients: state of the art"*, held in Padua on January, 23, 2018.

Institutional responsibilities

President of "European Committee on Organ Transplantation" (CD-P-TO), at the Council of Europe

National Expert at the National Transplant Center (CNT) for transplant patients with difficult immunological profile (Rome).

Italian Delegate at the Council of Europe as Transplant Expert (Strasbourg)

Consultant for the Vatican for issues related to xenotransplantation; member of the Vatican Pontifical Academy for Life (PAV).

President of the "Morgagni Foundation" (Padua).

Commissions of trust

Reviewer for the National Institutes of Health and National Institutes of Allergy and infectious Disease (NIH/NIAID), Bethesda, Maryland (USA)

Reviewer for the Programme PHRC, Ministère des Solidarités et de la Santé, Paris (France)

Past-President of the International Xenotransplantation Association (IXA)

Editorial Board of Xenotransplantation Journal

Referee for the following international journals:

- American Journal of Transplantation
- American Journal of Physiology
- Nature Medicine
- Nature Communication
- Transplantation (Associate Editor from 2014 to 2019)
- Transplant International
- Transplant Immunology
- Xenotransplantation
- Blood Transfusion

Memberships of scientific societies

Member of the Transplantation Society (TTS)

Member of the International Xenotransplantation Association (IXA)

Member of the International Society for Heart and Lung Transplantation (ISHLT)

Member of the Italian Society of Organ Transplantation (SITO)

Member of the Italian Society of Immunogenetics and Transplant Biology (AIBT)

Major collaborations

Prof. Cozzi is a transplant immunologist with an international reputation that enables him to collaborate with major investigators involved in the field of transplantation world-wide. In particular, Prof. Cozzi actively collaborates with:

- The CHU, INSERM UMR 1064, Nantes University (Prof. J-P Soulillou and Prof. J-M Bach) for issues related to non-HLA antibodies
- The MIRCen / CEA center, Paris (Prof. P. Hantraye) for issues related to neural cells transplantation
- The Stem cells for HD International (SC4HDI), an international group of experts in preclinical and clinical involved in development of stem cell based therapies for neurodegeneration

Major grants

<i>Project title</i>	<i>Funding source</i>	<i>Amount (€)</i>	<i>Period</i>	<i>Role of the PI</i>	<i>Relation to current proposal</i>
Impact of anti-endothelin-1	Ca.Ri.Pa.Ro. Foundation	360.000	2020-2023	Coordinator	Transplantation Immunology

receptor Type
A antibodies
in pediatric
renal
transplantation

TransLink	European Union	5.996.000	2013-2018	Coordinator	Transplantation Immunology
Repair-HD	European Union	356.000	2013-2018	P.I.	Transplantation Immunology
Xenome	European Union	11.619.503	2006-2012	Coordinator	Transplantation Immunology

Prof. E. Cozzi H-Index: 44

Citations: 8.146

Publications: A total of 220 publications in international peer reviewed journals.

Research monographs and translations thereof

Collaboration in editing the “General Surgery Manual” (vol. II), Author: Davide D’Amico, Editor: Piccin (Padua), 2018. Chapter: “Xenotransplantation: the State of the Art”

Collaboration in editing the “General Surgery” text book, by Francesco Minni, Editor: Casa Editrice Ambrosiana (CEA) Milan, 2019. Chapter: “Basi Immunologiche della trapiantologia moderna”.

Granted patents

UNITED STATES PATENT No.: US 8,435,520 B2; Date of Patent: May 7, 2013; COMBINATIONS OF IMMUNOSUPPRESSIVE AGENTS FOR THE TREATMENT OR PREVENTION OF GRAFT REJECTIONS;

Inventors: Hendrik J. Schuurman, Charlestown, W. MA (US); Emanuele Luigi Maria Cozzi, Padua (IT); Francoise Richard, St. Louis (FR); Guy Taccard, Hegenheim (FR); David James Graham White, Cambridge (GB); Peter John Friend, Oxford (GB); John Wallwork, Cambridge (GB); Paolo Brenner, Neuried (DE)

Invited presentations to peer-reviewed internationally established conferences and/or international advanced schools

Speaker at more than 100 national congress and more than 150 international congress and conferences. In particular, he was *invited speaker* at the congress of the following scientific societies:

- The Transplantation Society (TTS)
- American Transplant Congress (ATC)
- European Society of Organ Transplantation (ESOT)
- International Xenotransplantation Association (IXA)
- International Society of Nephrology (ISN)
- Società Italiana di Nefrologia (SIN)
- Società Italiana Trapianti d’Organo (SITO)
- Associazione Italiana di Immunogenetica e Biologia dei trapianti (AIBT)

Prizes, Awards, Academy memberships

For his studies on the immunological compatibility between pig and primate in the context of heart transplantation, in 1995 Prof. Cozzi was awarded the Gallucci Prize for research in the cardiac surgery sector.

Publications

- Lunardi F, Vedovelli L, Pezzuto F, Le Pavec J, Dorfmueller P, Ivanovic M, Pena T, Wassilew K, Perch M, Hirschi S, Chenard MP, Sosa RA, Goddard M, Neil D, Montero-Fernandez A, Rice A, Cozzi E, Rea F, Levine DJ, Roux A, Fishbein GA, Calabrese F. Assessing the role of phosphorylated S6 ribosomal protein in the pathological diagnosis of pulmonary antibody-mediated rejection. *J Heart Lung Transplant*. 2023; 6:S1053-2498.
- Mihály S, Smudla A, Dominguez-Gil B, Pérez A, Procaccio F, Cozzi E, López Fraga M, Avsec D, Rahmel A, Forsythe J, Immer F, Jushinskis J, Manara A. Approaching the Families of Potential Deceased Organ Donors: An Overview of Regulations and Practices in Council of Europe Member States. *Transpl Int*. 2023; 36:11498
- Van den Broek DAJ, Meziyerh S, Budde K, Lefaucheur C, Cozzi E, Bertrand D, López Del Moral C, Dorling A, Emonds MP, Naesens M, de Vries APJ; ESOT Working Group Subclinical DSA Monitoring. The Clinical Utility of Post-Transplant Monitoring of Donor-Specific Antibodies in Stable Renal Transplant Recipients: A Consensus Report With Guideline Statements for Clinical Practice. *Transpl Int*. 2023; 36:11321.
- Casós K, Llatjós R, Blasco-Lucas A, Kuguel SG, Sbraga F, Galli C, Padler-Karavani V, Le Tourneau T, Vadori M, Perota A, Roussel JC, Bottio T, Cozzi E, Soulillou JP, Galiñanes M, Máñez R, Costa C. Differential Immune Response to Bioprosthetic Heart Valve Tissues in the $\alpha 1,3$ Galactosyltransferase-Knockout Mouse Model. *Bioengineering (Basel)*. 2023; 10:833.
- Tona F, Vadori M, Civieri G, Masiero G, Iop L, Antonelli G, Perazzolo Marra M, Bianco F, Cecere A, Lorenzoni G, Naumova N, Bernava G, Basso D, Plebani M, Cozzi E, Iliceto S Association of autoantibodies targeting endothelin type-A receptors with no-reflow in ST-elevation myocardial infarction. *Atherosclerosis*. 2023; 378:117179.
- Civieri G, Vadori M, Masiero G, Iop L, Tansella D, Pergola V, Cozzi E, Iliceto S, Tona F Spontaneous coronary artery dissection in women with acute myocardial infarction: is there a new role for autoimmunity? *Eur Heart J Acute Cardiovasc Care*. 2023: zuad070.
- Adams A, Cendales LC, Cooper DKC, Cozzi E, Gill J, Judd E, Katz E, Kirk AD, Fishman JA, Reese PP, Wall A, Markmann JF. American Society of Transplant Surgeons-American Society of Transplantation report of FDA meeting on regulatory expectations for xenotransplantation products. *Am J Transplant*. 2023; 23:1290-1299.
- Rousse J, Royer PJ, Evanno G, Lheriteau E, Ciron C, Salama A, Shneiker F, Duchi R, Perota A, Galli C, Cozzi E, Blanco G, Duvaux O, Brouard S, Soulillou JP, Bach JM, Vanhove B. LIS1, a glyco-humanized swine polyclonal anti-lymphocyte globulin, as a novel induction treatment in solid organ transplantation. *Front Immunol*. 2023;14:1137629
- Lunardi F, Abbrescia DI, Vedovelli L, Pezzuto F, Fortarezza F, Comacchio GM, Guzzardo V, Ferrigno P, Loy M, Giraudo C, Fraia AS, Faccioli E, Braccioni F, Cozzi E, Gregori D, Verleden GM, Calabrese F, Schena FP, Rea F. Molecular Profiling of Tissue Samples with Chronic Rejection from Patients with Chronic Lung Allograft Dysfunction: A Pilot Study in Cystic Fibrosis Patients. *Biomolecules*. 2023 ;13:97
- Jatana SS, Zhao H, Bow LM, Cozzi E, Batal I, Horak T, Amar-Zifkin A, Schinstock C, Askar M, Dadhania DM, Cooper M, Naesens M, Kraus ES, Sapir-Pichhadze R; Banff Antibody-Mediated Injury Working Group. Seeking Standardized Definitions for HLA-incompatible Kidney Transplants: A Systematic Review. *Transplantation*. 2023; 107:231-253.
- Galiñanes M, Casós K, Blasco-Lucas A, Permanyer E, Máñez R, Le Tourneau T, Barquinero J, Schwartz S Jr, Roussel TBJC, Fellah-Hebia I, Sénage T, Evangelista A, Badano LP, Ruiz-Majoral A, Galli C, Padler-Karavani

- V, Soulillou JP, Vidal X, Cozzi E, Costa C. Oxidative Stress in Structural Valve Deterioration: A Longitudinal Clinical Study. *Biomolecules*. 2022;12:1606.
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- Cozzi E, Álvarez M, Carmona M, Mahillo B, Forsythe J, Lomero M, López-Fraga M, Sapir-Pichhadze R, Cardillo M, Domínguez-Gil B. An Analysis by the European Committee on Organ Transplantation of the Council of Europe Outlining the International Landscape of Donors and Recipients Sex in Solid Organ Transplantation. *Transpl Int*. 2022; 35:10322.
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Salam Bashir, Leopold K Fezeu, Shani Leviatan Ben-Arye, Sharon Yehuda, Eliran Moshe Reuven, Fabien Szabo de Edelenyi Imen Fellah-Hebia, Thierry Le Tourneau, Berthe Marie Imbert-Marcille, Emmanuel B Drouet, Mathilde Touvier, Jean-Christian Roussel, Hai Yu, Xi Chen, Serge Hercberg, Emanuele Cozzi, Jean-Paul Soulillou, Pilar Galan, Vered Padler-Karavani. Association between Neu5Gc carbohydrate and serum antibodies against it provides the molecular link to cancer: French NutriNet-Santé study. *BMC Med*. 2020 Sep;18:262

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Cristina Salado-Manzano, Unai Perpiña, Marco Straccia, Francisco J Molina-Ruiz, Emanuele Cozzi, Anne E Rosser, Josep M Canals. Is the Immunological Response a Bottleneck for Cell Therapy in Neurodegenerative Diseases? *Front Cell Neurosci*. 2020 Aug 11;14:250.

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Jean-Paul Soulillou, Emanuele Cozzi, and Jean-Marie Bach. Challenging the Role of Diet-Induced Anti-Neu5Gc Antibodies in Human Pathologies. *Front Immunol*. 2020 June; 11: 834.

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Soulillou JP, Cozzi E, Galli C, Bach JM. Can we extrapolate from a Cmah^{-/-} Ldlr^{-/-} mouse model a susceptibility for atherosclerosis in humans? Proc Natl Acad Sci U S A. 2020.

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