

CURRICULUM VITAE
Lucrezia Furian, MD

BORN: October 5th, 1974, Padua (Italy)

EDUCATION:

- Liceo Classico (Grammar School) "Tito Livio", Padua, 1993
- First Certificate of Cambridge School, 1999
- Medical School, University of Padua, 1993-1999
graduated October 13th, 1999, magna cum laude
- Research Fellowship, 2001-2003 at the Department of Immunology and Organ Transplantation – University of Texas, Houston, under direction of prof. B.D. Kahan
- ECFMG certification : April 2005
- Board Certified in General Surgery, Univ.of Padua,Italy 2005
- Clinical Transplantation Fellowship, 2006 at the Department of Immunology and Organ Transplantation – University of Texas, Houston, under direction of prof. B.D. Kahan

PRESENT POSITION: Assistant Professor of Surgery
Dept. of Surgical, Oncological and Gastroenterological Sciences, University of Padova, 2006-present

CLINICAL ACTIVITY: Clinical management of kidney and pancreas transplant patients, in the Kidney and Pancreas Transplantation Unit of the University-Hospital of Padua.

SURGICAL ACTIVITY (1st operator):
213 kidney transplants
62 Dual kidney transplants
5 Simultaneous kidney and pancreas transplants
230 Laparoscopic nephrectomies (200 in living donors)
135 Laparoscopic procedures general surgery
150 General surgery procedures

RESEARCH INTEREST:

- Use of Celsior solution for swine pancreas preservation, in the Center of Experimental Surgery of the University of Padova. Application of the magnetic resonance spectroscopy with deuterium in a rat model for evaluating organs viability after warm ischemia, in the Center of Biophysical Sciences of the University of Padova.
- Basic research in tolerance induction and signal transduction pathways, with particular interest on IL-2 receptor signaling

inhibition by antisense technology, new immunosuppressive drugs (Jak3 inhibitors), and murine models of humoral and cellular rejection in Stat4,5 a/b, 6 knock out.

- Pig to primate xenotransplantation, in the program promoted by Imutran.
- Experimental surgery in pig models of renal and pancreatic transplantation.
- Clinical research in immunosuppressive drugs and protocols, desensitization strategies for ABO incompatibility and sensitized kidney transplant recipients, Kidney paired donation

MEMBERSHIP:- TTS The Transplantation Society

- SITO Società Italiana Trapianti d'Organo
- ESOT European Society of Organ Transplantation
- Società Triveneta di Chirurgia

- PUBLICATIONS:**
- 1)** La soluzione Celsior®, nella conservazione sperimentale del pancreas. N.Baldan, P.Rigotti, M. Lo Savio, P. Parise, **L.Furian**, M.L.Valente, F. Calabrese, A.Girotto, E.Ancona
Atti del XXV Congresso Nazionale Società Italiana Trapianti D'Organo, I.9, Bologna 1999
 - 2)** La spettroscopia di risonanza magnetica nucleare nella valutazione pretrapianto degli organi addominali mediante determinazione del ²H. **L.Furian**, P.Rigotti, N.Baldan, R.Cadrobbi, G. Sarzo, A.Rigo, M.Scarpa, L.Zennaro, F.Vianello, A. Corazza
Atti del XXV Congresso Nazionale Società Italiana Trapianti D'Organo, I.9, Bologna 1999
 - 3)** Swine Pancreas Preservation with Celsior Solution
N.Baldan, P. Parise, **L. Furian**, M. Lo Savio, M.L. Valente, F. Calabrese R. Venturini, A. Girotto, P. Rigotti
Transpl.Proc, 32, 29-31, 2000 IF=0.588
 - 4)** Mycophenolate mofetil (MMF) versus azathioprine (AZA) in pancreas transplantation: a single-center experience.
P. Rigotti, R. Cadrobbi, N. Baldan, G. Sarzo, P. Parise, **L. Furian**, F. Marchini, E. Ancona.
Clinical Nephrology 53, 52-54, 2000 IF= 1.341
 - 5)** Pancreas preservation with Celsior solution in a pig autotransplantation model: comparative study with University of Wisconsin solution.
Baldan N, Rigotti P, **Furian L**, Valente ML, Calabrese F, Di Filippo L, Parise P, Sarzo G, Frison L, Ancona E.
Transplant Proc. 2001 Feb-Mar;33(1-2):873-5. IF=0.588
 - 6)** Deuterium nuclear magnetic resonance for evaluating the metabolic status of livers subjected to warm ischemia
M. Scarpa, A. Corazza, F. Vianello, A. Rigo, **L. Furian**, N. Baldan, P. Rigotti
Transplantation. 2001 Jun 15;71(11):1515-7. IF=3.608

- 7)** Trapianto renale: la realtà italiana.
P. Rigotti, N. Baldan, **L. Furian**
Atti Società Italiana di Chirurgia, 1, 287-291, 2001
- 8)** Short-term outcome of dual kidney transplantation at a single center.
Rigotti P, Cadrobbi R, **Furian L**, Baldan N, Sarzo G, Liberati L, Valente ML, Ancona E
Transplant Proc. 2001 Nov-Dec;33(7-8):3771-3. IF=0.588
- 9)** Does taking part in multiple clinical studies with new immunosuppressive agents affect the outcome of renal transplantation?
Rigotti P, Baldan N, **Furian L**, Cadrobbi R, Sarzo G, Marchini F, Ancona E.
Transplant Proc. 2001 Nov-Dec;33(7-8):3427-8. IF=0.588
- 10)** Antilymphocyte induction is no longer necessary in simultaneous pancreas and kidney transplantation.
Rigotti P, Baldan N, Cadrobbi R, **Furian L**, Sarzo G, Dall'Olmo L, Ancona E.
Transplant Proc. 2002 Aug;34(5):1906-8. IF=0.588
- 11)** Mumps-associated nephritis mimicking acute rejection in a patient under chronic dialysis treatment because of graft dysfunction
Aiello FB, Calabrese F, **Furian L**, Baldan N, Marchini F, Rigotti P, Valente M.
Transpl Int 2002 Oct;15(9-10):523-4 IF=1.204
- 12)** Plasma fibrinolytic capacity in renal transplant recipients: effect of steroid-free immunosuppression therapy.
Sartori MT, Rigotti P, Marchini F, Spiezia L, Baldan N, **Furian L**, Varvarikis C, Girolami A.
Transplantation. 2003 Apr 15;75(7):994-8. IF=3.608
- 13)** Acute rejection and graft survival in renal transplanted patients with viral diseases.
Aiello FB, Calabrese F, Rigotti P, **Furian L**, Marino S, Cusinato R, Valente M.
Mod Pathol. 2004 Feb;17(2):189-96 IF=3.323
- 14)** Application of cyclosporine in renal transplantation: experience at the University of Padua.
Furian L, Baldan N, Rigotti P.
Transplant Proc. 2004 Mar;36(2 Suppl):148S-151S. IF=0.588
- 15)** Evaluation of 84 Elderly Donors in Renal Transplantation
P.Rigotti, N.Baldan, M.Valente, S.Scappin, **L.Furian**, R.Cadrobbi, F.Marchini, E.Ancona
Clin Transplant. 2004 Aug;18(4):440-5. IF=1.582
- 16)** Methoxyethyl-modified intercellular adhesion molecule-1 antisense phosphorothiateoligonucleotides inhibit allograft rejection, ischemic-reperfusion injury, and cyclosporine-induced nephrotoxicity
Chen W, Langer RM, Janczewska S, **Furian L**, Geary R, Qu X, Wang M, Verani R, Condon T, Stecker K, Bennett CF, Stepkowski SM.
Transplantation. 2005 Feb 27;79(4):401-8. IF=3.608
- 17)** The Mannich base NC1153 promotes long-term allograft survival and spares the recipient from multiple toxicities

- Stepkowski SM, Kao J, Wang ME, Tejpal N, Podder H, **Furian L**, Dimmock J, Jha A, Das U, Kahan BD, Kirken RA
J Immunol. 2005 Oct 1;175(7):4236-46. IF=6.702
- 18)** Allograft rejection requires STAT5a/b-regulated antiapoptotic activity in T cells but not B cells
Zhang Y, Kirken RA, **Furian L**, Janczewska S, Qu X, Hancock WW, Wang M, Tejpal N, Kerman R, Kahan BD, Stepkowski SM
J Immunol. 2006 Jan 1;176(1):128-37
- 19)** Perforin, Granzyme B, and fas ligand for molecular diagnosis of acute renal-allograft rejection: analyses on serial biopsies suggest methodological issues
Graziotto R, Del Prete D, Rigotti P, Anglani F, Baldan N, **Furian L**, Valente M, Antonello A, Marchini F, D'Angelo A, Gambaro G
Transplantation. 2006 Apr 27;81(8):1125-32
- 20)** Co-administration of sirolimus alters tacrolimus pharmacokinetics in a dose-dependent manner in adult renal transplant recipients
Baldan N, Rigotti P, **Furian L**, Margani G, Ekser B, Frison L, De Martin S, Palatini P
Pharmacol Res. 2006 Sep;54(3):181-5. Epub 2006 May 1
- 21)** Monolateral placement of both kidneys in dual kidney transplantation: low surgical complication rate and short operating time
Ekser B, Baldan N, Margani G, **Furian L**, Frison L, Valente M, Rigotti P
Transpl Int. 2006 Jun;19(6):485-91
- 22)** Melanoma growth and tumorigenicity in models of microgravity
Taga M, Yamauchi K, Odle J, **Furian L**, Sundaresan A, Ramesh GT, Pellis NR, Andrassy RJ, Kulkarni AD
Aviat Space Environ Med. 2006 Nov;77(11):1113-6
- 23)** Calcineurin inhibitor-free immunosuppression in dual kidney transplantation from elderly donors
Furian L, Baldan N, Margani G, Ekser B, Silvestre C, Marchini F, Bonfante L, Rossi B, Valente ML, Rigotti P
Clin Transplant. 2007 Jan-Feb;21(1):57-62
- 24)** Laparoscopic live donor nephrectomy: single center experience
Baldan N, **Furian L**, Ekser B, Fabris L, Broggiato A, Cadrobbi R, Costantini M, Zaninotto G, Rigotti P
Transplant Proc. 2007 Jul-Aug;39(6):1787-90
- 25)** Histological markers of humoral rejection in renal transplant patients
Valente M, **Furian L**, Marino S, Rigotti P, De Fazio N, Cardillo M, Cusinato R, Aiello FB.
Transplant Proc. 2007 Jul-Aug;39(6):1827-9
- 26)** Combined liver and kidney transplantation: analysis of Padova experience
Zanus G, Carraro A, Vitale A, Boccagni P, Brolese A, Neri D, Srsen N, Gringeri E, Valmasoni M, D'Amico F, Ciarleglio FA, Violi P, Bonsignore P, Pauletto A, Bassi D, D'Amico F Jr, Burra P, Masier A, Rigotti P, **Furian L**, Polacco M, D'Amico DF, Cillo U
Transplant Proc. 2007 Jul-Aug;39(6):1933-5
- 27)** Ipsilateral placement in double-kidney transplantation: an old technique in a new fashion.
Ekser B, **Furian L**, Rigotti P.

Transplantation. 2008 May 27;85(10):1508

28) Dual kidney transplantation after liver transplantation: a good option to rescue a patient from dialysis.

Ekser B, **Furian L**, Baldan N, Amico A, Fabris L, Lazzarin M, Marchini F, Rigotti P.

Clin Transplant. 2009 Jan;23(1):124-8

29) A case of Kaposi's sarcoma in the rapamycin era

Gemelli A, Paciolla A, Oliosi F, Basso A, Moscardin R, Tineo MC, Romano P, Alaibac M, Aversa S, **Furian L**, D'Angelo A, Bonfante L.

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30) Outcome of Renal Transplantation from Very Old Donors

Rigotti P, Ekser B, **Furian L.**, Baldan N, Valente MI, Boschiero L, Motterlini N, Perna A, Remuzzi G, Ruggenenti P

N Engl J Med. 2009 Apr 2;360(14):1464-5

31) Early activation of fibrogenesis in transplanted kidneys: A study on serial renal biopsies.

Del Prete D, Ceol M, Anglani F, Vianello D, Tiralongo E, Valente M, Graziotto R, Bonfante L, Scaparrotta G, **Furian L**, Rigotti P, Gambaro G, D'Angelo A.

Exp Mol Pathol. 2009 Oct; 87 (2):141-5

32) Living donor kidney transplant: the surgical procedure

Furian L, Rigotti P.

G Ital Nefrol. 2009 Jul-Aug;26 (4): 516-22

33) Acute rejection features in dual kidney transplant recipients from elderly donors: comparison of calcineurin inhibitor-based and calcineurin inhibitor-free immunosuppressive protocols

Aiello FB, **Furian L**, Marino S, Marchini F, Cardillo M, De Fazio N, Rigotti P, Valente M

Int J Immunopathol Pharmacol 2009 Oct-Dec; 22(4):1001-7

34) Evaluation of cytomegalovirus (CMV)-specific T cell immune reconstitution revealed that baseline antiviral immunity, prophylaxis, or preemptive therapy but not antithymocyte globulin treatment contribute to CMV-specific T cell reconstitution in kidney transplants recipients

Abate D, Saldan A, Fiscon M, Cofano S, Paciolla A, **Furian L**, Ekser B, Biasolo MA, Cusinato R, Mengoli C, Bonfante L, Rossi B, Rigotti P, Sgarabotto D, Barzon L, Palù G

J Infect Dis 2010 Aug 15; 202 (4):585-94

35) Technical aspects of unilateral dual kidney transplantation from expanded criteria donors: experience of 100 patients

Ekser B, **Furian L**, Broggiato A, Silvestre C, Pierobon ES, Baldan N, Rigotti P

Am J Transplant 2010 Sep; 10(9):2000-7

36) C4d-positive renal allograft rejection biopsies in cyclosporine-treated patients: single-center incidence and outcome

Valente M, **Furian L**, Marchini F, Marino S, Cardillo M, Rigotti P, Aiello FB

Transplant Proc 2010 Jul-Aug; 42(6):2214-7

37) Epstein–Barr virus-associated gastric carcinoma 33 years after kidney transplantation

Lunardi F, Calabrese F, **Furian L**, Rigotti P and Valente M

NDT Plus (2011) 4: 49–52

38) Optimizing Allocation of Kidneys from Older Donors: Between Resources and Results

Author(s): Ekser B.; Furian L.; Rigotti P.

AMERICAN JOURNAL OF TRANSPLANTATION Volume: 11 Issue: 1 Pages: 183-183

39) Refinement of a macaque transplantation model: application of a subcutaneous port as a means for long-term enteral drug administration and nutritional supplementation.

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Lab Anim. 2012 Apr;46(2):114-21. Epub 2012 Feb 14

40) Glomerulitis and endothelial cell enlargement in C4d(+) and C4d(-) acute rejections of renal transplant patients.

Aiello FB, Furian L, Della Barbera M, Marino S, Seveso M, Cardillo M, Pierobon ES, Cozzi E, Rigotti P, Valente M

Hum Pathol. 2012 Dec;43(12):2157-66

41) Glomerular c4d immunoreactivity in acute rejection biopsies of renal transplant patients.

Valente M, Furian L, Della Barbera M, Silvestre C, Marino S, Seveso M, Cozzi E, Rigotti P, Aiello FB.

Transplant Proc. 2012 Sep;44(7):1897-900.

42) Organ donors with small renal cancer: report of 3 cases

Valente M, Furian L, Rigotti P.

Transplant Proc. 2012 Sep;44(7):1846-7.

43) Comparison of cytomegalovirus (CMV) enzyme-linked immunosorbent spot and CMV quantiferon gamma interferon-releasing assays in assessing risk of CMV infection in kidney transplant recipients.

Abate D, Saldan A, Mengoli C, Fiscon M, Silvestre C, Fallico L, Peracchi M, Furian L, Cusinato R, Bonfante L, Rossi B, Marchini F, Sgarabotto D, Rigotti P, Palù G.

J Clin Microbiol. 2013 Aug;51(8):2501-7. doi: 10.1128/JCM.00563-13. Epub 2013 May 15.

44) Transplantation: Optimizing outcomes in elderly kidney transplant recipients.

Furian L, Rigotti P.

Nat Rev Nephrol. 2013 Jul;9(7):382-4. doi: 10.1038/nrneph.2013.105. Epub 2013 May 28.

45) Hepatitis C virus infection in end-stage renal disease and kidney transplantation.

Burra P, Rodríguez-Castro KI, Marchini F, Bonfante L, Furian L, Ferrarese A, Zanetto A, Germani G, Russo FP, Senzolo M.

Transpl Int. 2014 Sep;27(9):877-91. doi: 10.1111/tri.12360. Epub 2014 Jun 19

46) Concomitant use of argatroban and warfarin during hemodialysis in heparin-induced thrombocytopenia.

Vianello F, Furian L, Nordio M, Treleani M, Fabris F.

Hematology. 2014 Feb 28

Clin Transplant. 2014 Dec;28(12):1433-40.

47) Desensitization With Plasmapheresis and Anti-Cd20 for ABO Incompatible Kidney Transplantation From Living Donor: Experience of a Single Center in Italy.

Silvestre C, Furian L, Marson P, Tison T, Valente M, Marchini F, Rossi B, Bonfante L, Valerio F, Cozzi E, Rigotti P.

Transplant Proc. 2014 Sep;46(7):2209-13

48) Everolimus associated with low-dose calcineurin inhibitors, an option in kidney transplant recipients of very old donors.

Furian L, Silvestre C, Vallese L, Baldan N, Donato P, Bonfante L, Cavallin F, Marchini F, Rigotti P.

Transplant Proc. 2014 Dec;46(10):3390-5

49) A single-center experience with 200 dual kidney transplantations.

Rigotti P, Capovilla G, Di Bella C, Silvestre C, Donato P, Baldan N, Furian L.

Clin Transplant. 2014 Dec;28(12):1433-40.

50) Current preventive strategies and management of Epstein-Barr virus-related post-transplant lymphoproliferative disease in solid organ transplantation in Europe. Results of the ESGICH Questionnaire-based Cross-sectional Survey.

San-Juan R, Manuel O, Hirsch HH, Fernández-Ruiz M, López-Medrano F, Comoli P, Caillard S, Grossi P, Aguado JM; ESGICH PTLD Survey Study Group,.; European Study Group of Infections in Compromised Hosts (ESGICH) from the European Society of Microbiology and Infectious Diseases (ESCMID).

Clin Microbiol Infect. 2015 Jun;21(6):604.e1-9.

51) Coronary Microvascular Dysfunction Predicts Long-Term Outcome in Simultaneous Pancreas-Kidney Transplantation.

Tona F, Silvestre C, Rigato M, Famoso G, Marchini F, Bonfante L, Neri F, Furian L, Crepaldi C, Iliceto S, Rigotti P.

Transplant Proc. 2016 Mar;48(2):344-8.

52) Combined liver-dual kidney transplant: Role in expanded donors.

Ekser B, Silvestre C, Furian L.

Liver Transpl. 2017 Feb;23(2):266-267.

53) Potential role of effector memory T cells in chronic T cell-mediated kidney graft rejection.

Curci C, Sallustio F, Serino G, De Palma G, Trpevski M, Fiorentino M, Rossini M, Quaglia M, Valente M, Furian L, Toscano A, Mazzucco G, Barreca A, Bussolino S, Gesualdo L, Stratta P, Rigotti P, Citterio F, Biancone L, Schena FP.

Nephrol Dial Transplant. 2016 Dec;31(12):2131-2142.

54) Balance impairment in kidney transplant recipients without concurrent peripheral neuropathy.

Zanotto T, Gobbo S, Bullo V, Vendramin B, Duregon F, Cugusi L, Di Blasio A, Furian L, Silvestre C, Neunhaeuserer D, Zaccaria M, Bergamin M, Ermolao A.

Gait Posture. 2017 Jun;55:116-120.

55) How does age affect the outcome of kidney transplantation in elderly recipients?

Neri F, Furian L, Cavallin F, Ravaioli M, Silvestre C, Donato P, La Manna G, Pinna AD, Rigotti P.

Clin Transplant. 2017 Oct;31(10) [Epub ahead of print]

56) Therapeutic apheresis in kidney ABO incompatible transplantation.

Parolo A, Silvestre C, Neri F, Rigotti P, Furian L.

Transfus Apher Sci. 2017 Aug;56(4):506-509

57) Long-term outcome of renal transplantation from octogenarian donors: A multicenter controlled study.

Ruggenenti P, Silvestre C, Boschiero L, Rota G, Furian L, Perna A, Rossini G, Remuzzi G, Rigotti P.

Am J Transplant. 2017 Aug 9 [Epub ahead of print]

58) Are there any relations among transplant centre volume, surgical technique and anatomy for donor graft selection? Ten-year multicentric Italian experience on mini-invasive living donor nephrectomy.

Ravaioli M, Capocasale E, Furian L, De Pace V, Iaria M, Spagnoletti G, Salerno MP, Giacomoni A, De Carlis L, Di Bella C, Rostand NM, Boschiero L, Pasquale G, Bosio A, Collini A, Carmellini M, Airoidi A, Bondonno G, Ditunno P, Impedovo SV, Beretta C, Giussani A, Soggi C, Parolini DC, Abelli M, Ticozzelli E, Baccarani U, Adani GL, Caputo F, Buscemi B, Frongia M, Solinas A, Gruttadauria S, Spada M, Pinna AD, Romagnoli J.

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59) Pathophysiology of Post Transplant Hypertension in Kidney Transplant: Focus on Calcineurin Inhibitors Induced Oxidative Stress and Renal Sodium Retention and Implications with RhoA/Rho Kinase Pathway.

Calò LA, Ravarotto V, Simioni F, Naso E, Marchini F, Bonfante L, Furian L, Rigotti P.

Kidney Blood Press Res. 2017;42(4):676-685. doi: 10.1159/000483023. Epub 2017 Oct 16.

60) Effects of immune suppression for transplantation on inflammatory colorectal cancer progression.

Angriman I, Furian L, Scarpa M, Fassan M, Morgan S, Porzionato A, Kotsafti A, Saadeh L, Silvestre C, De Caro R, Carraro A, Tedeschi U, Bardini R, Rigotti P, Rugge M, Castoro C, Castagliuolo I, Scarpa M.

Oncogenesis. 2018 Jun 19;7(6):46. doi: 10.1038/s41389-018-0055-5.

AWARDS:

- Young Researcher Award, 36th Congress of the European Society for Surgical Research (ESSR), June 9th 2001. Santiago de Compostela, Spain
- Best Clinical Presentation Award, 3rd European Transplant Fellow Workshop, October 4-6 2002, Brussels, Belgium
- Best Research Presentation Award, Congress of the American College of Surgeons, South Texas Chapter March 7 2003, Houston, Texas

- “Alfani” Award for young researchers, 27th National Congress SITO (Società Italiana Trapianti d’Organo) September 15-17, 2003, Tirrenia (PI), Italy
- Best Presentation Award at 28th National Congress of SITO (Società Italiana Trapianti d’Organo) November 22, 2005, Rome, Italy