

José Ramon Torrealba, M.D.

Personal Data

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Education

- 1981 – 1986 Bachelor in Sciences, “J.F. Torrealba School”, Guarico State, Venezuela. 1st place of the class (Valedictorian)
1987 – 1994 Medical Doctor, Central University of Venezuela, Caracas, Venezuela. Magna Cum Laude. 1st place of the class
1997 – 1999 Postdoctoral Fellowship, Department of Medicine, Cardiovascular Section, University of Wisconsin, Madison, WI, USA
1999 – 2003 Residency in Anatomic Pathology and Clinical Pathology, Department of Pathology and Laboratory Medicine, University of Wisconsin Hospital and Clinics, Madison, Wisconsin, USA.
2003 – 2005 Fellowship, Transplantation Immunopathology, Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Ontario, Canada
2008 Observership, Pulmonary Pathology, Sloan-Kettering Cancer Center, New York, New York. Tutor: Dr. William Travis

Certification and Licensure

Specialty/Subspecialty Certification

11/1997	Educational Commission for Foreign Medical Graduates (ECFMG)
07/2003	American Board of Pathology (Anatomic and Clinical Pathology)
05/2006	Royal College of Physicians of Canada (Anatomic Pathology)

Medical or Other Professional Licensure

02/2002-present	State of Wisconsin Medical Examining Board, USA
01/2005-12/2010	College of Physicians and Surgeons of Saskatchewan, Canada
08/2012-present	State of Texas Medical Board

Present Appointment/Position

08/2012-Present	Associate Director of Anatomic Pathology, Department of Pathology, University of Texas Southwestern Medical Center, Dallas, Texas, USA
08/2012-Present	Director of Renal Pathology. Department of Pathology, University of Texas Southwestern Medical Center, Dallas, Texas, USA
07/2015-Present	Director of Thoracic Pathology. Department of Pathology, University of Texas Southwestern Medical Center, Dallas, Texas, USA
08/2012-Present	Staff Pathologist, Associate Professor. Department of Pathology, University of Texas Southwestern Medical Center, Dallas, Texas, USA

Past Appointments/Positions

08/2012-01/2018	Director of Surgical Pathology, UT University Hospitals. Department of Pathology, University of Texas Southwestern Medical Center, Dallas, Texas, USA
08/2012-01/2018	Medical Director of Histology and Immunohistochemistry Laboratories. Department of Pathology, University of Texas Southwestern Medical Center, Dallas, Texas, USA
03/2011-08/2012	Staff Pathologist, Associate Professor. Department of Pathology and Laboratory Medicine, University of Wisconsin, Madison, USA
12/2007-07/2012	Staff Pathologist, Department of Pathology, W. Middleton VA Hospital, Madison, Wisconsin
07/2011-05/2012	Director of Surgical Pathology (Interim), Department of Pathology and Laboratory Medicine, University of Wisconsin and Department of Pathology, W. Middleton VA Hospital, Madison, Wisconsin
03/2010-07-2011	Director, Autopsy Service, Department of Pathology and Laboratory Medicine, University of Wisconsin and Department of Pathology, W. Middleton VA Hospital, Madison, Wisconsin
01/2006-03/2011	Staff Pathologist, Assistant Professor. Department of Pathology and Laboratory Medicine, University of Wisconsin, Madison, USA
01/2006-07/2009	Director (off-site) Histocompatibility Laboratory (HLA Laboratory), Department of Pathology, Saskatoon Health Region, University of Saskatchewan, Saskatoon, Saskatchewan, Canada
01/2005 – 01/2006	Director Histocompatibility Laboratory (HLA Laboratory), Department of

Pathology, Saskatoon Health Region, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

- 01/2005 – 01/2006 Staff Pathologist/Clinical Assistant Professor, Department of Pathology, Saskatoon Health Region, University of Saskatchewan, Saskatoon, Saskatchewan, Canada
- 12/2003 – 01/2005 Fellow, Department of Laboratory Medicine and Pathobiology, University Health Network, University of Toronto, Toronto, Ontario, Canada
- 07/2002 – 06/2003 Chief Resident, Department of Pathology and Laboratory Medicine, University of Wisconsin Hospital and Clinics, USA
- 07/1999–11/2003 Pathology Resident, Department of Pathology and Laboratory Medicine, University of Wisconsin Hospital and Clinics, USA
- 02/1997 – 06/1999 Research Associate, Department of Medicine, Cardiovascular Research Laboratory, University of Wisconsin, Madison, Wisconsin, USA
- 11/1995 - 02/1997 Instructor, Department of Pathophysiology “José María Vargas” School of Medicine Central University of Venezuela, Caracas-Venezuela.
- 06/1994 - 06/1995 General Physician, Jesus Regetti Outpatient County Clinic, El Hatillo, Venezuela.

Professional Society Memberships

- 2011 – present Member, Pulmonary Pathology Society
- 2007 – present Member, American Society of Nephrology
- 2006 – present Fellow Royal College of Physicians of Canada
- 2003 – present Member, American Transplant Society
- 2003 – present Fellow, College of American Pathologists
- 2003 – present Fellow, American Society of Clinical Pathologists
- 2000 – 2003 Jr. member, College of American Pathologists
- 2000 – 2003 Member, American Society of Clinical Pathologists

Honors and Awards

- 2018** Society of Cardiovascular Pathology Young Investigator’s Award, USCAP, 03/2018 “CD68/CD31 Immunohistochemistry Double Stain Demonstrates Increased Accuracy in Diagnosing Antibody-Mediated Rejection in Cardiac Transplant Patients”
- 2017** Poster of Distinction, American Transplant Congress. Poster “Banff 2013 Classification of Renal Allograft Pathology Is Superior to Banff 2007 in Detecting and Managing Milder and Earlier Cases of Antibody-Mediated Rejection”.
- 2014** Poster of Distinction, World Transplant Congress. Poster “Histopathology of Long

Term Tolerant Kidney Allografts in Rhesus monkeys”

- 2012** Drs. George and Anne Race Distinguished Professor of Pathology, University of Texas Southwestern Medical Center
- 2010** Gold Microscope Award in Anatomic Pathology. In recognition of Residency Education, Department of Laboratory Medicine and Pathology, University of Wisconsin
- 2010** Certificate of Merit at the Society of Thoracic Radiology meeting, poster presentation “Neuroendocrine tumors of the lung: Spectrum of CT changes”, San Diego, California
- 2008** Poster of Distinction "Selenium binding protein 1 is Downregulated in the Vascular Smooth Muscle and Murine Allografts with Chronic Vasculopathy". Poster presentation American Transplant Congress, Toronto, Canada, 2008
- 2008** Award paper "C4d positive Interacinar capillaries correlates with donor-specific antibody mediated rejection in pancreas allografts". XXII International Congress of the Transplantation Society ", Sydney, Australia
- 2008** "Author of one of the most highly scored abstracts" for oral presentation at the XXII International Congress of the Transplantation Society and invitation to publish in the special edition of Transplantation. Title "Histopathology parameters associated with Acute Antibody mediated rejection correlate better with the development of chronic allograft injury compared to parameters associated to acute cellular rejection"
- 2007** America's Top Physician List, 2007, Consumers' Research Council of America
- 2007** "Extremely strong presentation" of the article "Anatomical location and phenotype of naturally occurring and Adaptive T regulatory cells in the long term allografts of primates", American Transplant Congress, 2007, Basic Science Committee
- 2004** Abstract winner, Genes, Proteins and People platform, University Health Network Research Day, University of Toronto, November 1st, 2004. Research article: “Double Negative T-regulatory cells promote allograft tolerance in a murine semi-allogeneic cardiac transplant model”
- 2004** First Prize, Laboratory Medicine and Pathobiology Department Award for the best Poster/Oral presentation, Residents, Clinical and Postdoctoral Fellows, Research Associates and Faculty Research Day, University of Toronto, October 27th, 2004. Research article: “Double Negative T-regulatory cells promote allograft tolerance in a murine semi-allogeneic cardiac transplant model”
- 2004** Federation of Clinical Immunology Societies (FOCIS) New Investigator Travel Award, 4th Annual Conference, Montreal, Canada, July 18-23, 2004. Research article: “Metastable Tolerance in Rhesus Monkey Kidney Allografts Correlates with Peritubular Latent TGFβ⁺ Graft Infiltrating Cells and TGFβ⁺ -dependent DTH Regulation in Peripheral Blood”

- 2003** Sheard Sandford Pathology Resident Award, 2003 American Society of Clinical Pathology Annual Meeting, New Orleans September 17-21, 2003. Research article "TGFβ⁺ 1 mediated immune regulation of renal transplants correlates with infiltrating TGFβ⁺ T regulatory cells in the allografts". Diploma and Leica Microscope DMLS.
- 2003** Young Investigator Award, American Transplant Congress 2003. Research article "TGFβ⁺ -dependent immune regulation during renal allograft acceptance I. Association of latent TGFβ⁺ + CD4⁺ lymphocytic graft infiltrates with a regulated DTH response of Rhesus monkey PBMC to donor antigen".
- 2003** Plenary presentation. American Transplant Congress 2003. Research article "TGFβ⁺ -dependent immune regulation during renal allograft acceptance I. Association of latent TGFβ⁺ + CD4⁺ lymphocytic graft infiltrates with a regulated DTH response of Rhesus monkey PBMC to donor antigen".
- 2002** Sheard Sandford Pathology Resident Award, 2002 American Society of Clinical Pathology/College of American Pathology Annual Meeting, Washington, October 12-15, 2002. Research article "Piceatannol is associated with increased survival and reduced mononuclear cells in renal allografts". Diploma and Leica Microscope DMLS.
- 2002** Top ten research article, XIX International Congress of the Transplantation Society, Miami August 2002. Research article "Prolongation of kidney allograft survival by piceatannol in combination with sub-therapeutic doses of cyclosporine A is associated with reduced mononuclear infiltrates into the transplanted kidney".
- 1998** Honoric Mention. Research article "Prevalence of lipoproteinemias in an oil workers population". XXXI Venezuelan National Cardiology Meeting
- 1998** Honoric Mention. Research article "Evaluation of coronary events probability in a Venezuelan population". XXXI Venezuelan National Cardiology Meeting
- 1997** Merit honor scholarship granted by the Scientific and Humanistic Development Center, Central University of Venezuela.
- 1995** Scholarship granted by the "Gran Mariscal de Ayacucho" Foundation, Venezuela
- 1994** Distinction "Magna Cum Laude" for achieving the highest average grade in the corresponding class of 1994, Faculty of Medicine, Central University of Venezuela.
- 1994** Award: "Dr. Lorenzo Campins y Ballester" to Academic Excellence, Faculty of Medicine, Central University of Venezuela.
- 1993-1994** President, Medical Student Scientific Society, Central University of Venezuela

- 1993-1994** President, III Venezuelan Medical Student Scientific Meeting, Central University of Venezuela
- 1993** "José Félix Ribas" Order in its Third Class, Mention: Academic Achievement, Family Ministry, Caracas-Venezuela.
- 1991 & 1992** Award: Mention Academic Achievement, granted by the Academic Vice-Rectorship, Student's Week Commission, Central University of Venezuela
- 1991** Honor Diploma, granted by the Pathology Department, Central University of Venezuela for academic excellence.
- 1990** Award "Dr. José Izquierdo", granted by the Venezuelan Morphology Athenaeum for outstanding achievement on the subjects dictated by the Normal Anatomy Department, Central University of Venezuela.

Grant Activity

Current

- UTSW Department of Pathology Torrealba (PI) 09/01/12–Present
Endowment Fund Drs. George and Anne Race Distinguished Professor of Pathology
"Role of Selenium Binding Protein 1 in Chronic Allograft Injury"
Major Goal: Study the expression of SBP-1 in human chronic kidney allograft rejection
Role: PI 1.44 cal mos (15%) (\$300,000)
- NIH – Precision Medicine FP00009926 11/01/2017 – 12/01/2022
"Chronic Kidney Disease Precision Medicine Project"
Role: Co-investigator Pathology Core (10%)
- NIH-RO1 Fernandez L (PI) – FP00002679 4/1/15-2/29/20
"The Role of Complement Inhibition in Expanded Criteria Kidney Transplantation"
Role: Co-investigator – Pathologist (3% year 1, 5% years 2-4, 3% year 5) \$426,000/year
- NIH-RO1 Deberardinis R (PI) – FP00005895 5/1/16-4/30/21
"Metabolic Regulators of Tumor Cell Growth"
Role: Co-investigator – Pathologist (5%) \$384,670/year
- Radiological Society of North America – Lenkiski R (PI) - FP00007368 \$3,000/current
Role: Consultant - Pathologist
- NIH, R01 Djamali A (PI) 2/1/11-11/30/16
"Nox on chronic allograft injury"
Role: Co-investigator – Pathologist 0.48 cal mos (5%) Years 1-2. \$250,000/year
Consultant Years 3-5
- Precision Biologics Beg (PI) 05/01/13 – 10/30/17
"Anti MUC-5 in colon and pancreas adenocarcinoma"

Role: Co-investigator	Central Pathologist	\$100,000/year
- UTSW Department of Medicine "Molecular and genetic markers in Pulmonary Interstitial Fibrosis" Role: Consultant	Garcia K (PI) Pathologist	Current
- NIH-NCI "PQ1) Epigenetic effect of the premalignant field" Role: Co-Investigator	Terada L (PI) – FP00006772 (5%)	7/1/16-6/30/21 \$395,533/year

Pending

- NIH-SPORE "ASSIST i-SAbR: Exploiting the Synergy of immunotherapy and Stereotactic Ablative" Role: Pathology Core Director	Timmerman R (PI) – FP00007319 (15%)	9/1/16-8/31/21 \$225,093/year
- American Heart Ass. "Cre/lox mutagenesis of TLR4 – effects on murine adaptive FSGS after 5/6 th nephrectomy" Role: Co-investigator	Lu C (PI) – FP00006070 (5%)	1/1/17-12/31/18 \$154,000/year

Major Past Awards

UW-Foundation "Anti-type V Collagen Autoimmunity Atherosclerosis" Role: Co-Investigator	Burlingham (PI) <u>0.6 cal mos</u>	5/1/09-6/30/10 \$65,000
American Society of Nephrology "Oral Antioxidants and the Prevention of Chronic Kidney Allograft Tubulointerstitial Fibrosis" Major Goal: Role of oxygen radicals in chronic allograft fibrosis and strategies for prevention Role: Consultant	Djamali (PI) <u>Pathologist</u>	07/01/08–06/30/10
University of Wisconsin Foundation-MERC "Regenerative Medicine Program-Immunology and Pathology Care" Major Goal: Immunopathology of organ allograft tolerance in humans and animal models Role: Co-Investigator	Burlingham (PI) <u>Pathologist</u>	07/01/05–03/26/09
DOD 144PJ75 "Translating the Hibernation Phenotype to Human Trauma Care" Major Goal: Study the physiologic and histopathologic patterns of hibernating squirrels and	Carey (PI)	05/01/06–04/30/07

their resistance to tissue injury
Role: Co-Investigator 0.6 cal mos (5%) 120,000/year

Canadian Institute of Health Research Tsao (PI) 11/1/04-02/01/2005
CIHR-sponsored Training Program in Molecular Pathology, Department of Laboratory
Medicine and Pathobiology, University of Toronto, Canada
Role: Fellow CAN\$65,000/year

CIHR 777606033 (Canada) Zhang (PI) 05-02 - 04/07
Double negative T-regulatory cells in transplantation tolerance.
Role: Co-investigator 25% effort.

R01 AI44077 Burlingham (PI) 12/1/98-1/31/04
NIH/NIDDK/NIAID
"Kidney Transplantation and Non-Inherited Maternal Antigens"
Major Goal: This award helped to establish the basis for a rational approach to HLA-
matching and selective NIMA mismatching to achieve the goal of clinical kidney
transplantation tolerance.
Role: Co-Investigator Pathologist 250,000/year

SBIR subcontract from Renovar Hamawy (PI) 7/1/03-6/30/05
"Preventing Graft Rejection with Piceatannol"
Major Goal: This project examined if the Syk/Zap blocker piceatannol is useful for preventing
graft rejection in a preclinical non-human primate transplant model.
Role: Co-Investigator Pathologist

ROTRF 603630057 Hamawy (PI) 6/1/01 – 5/31/04.
CsA and FK506 regulate the expression and phosphorylation of the Linker for activation of
T cells (LAT), a molecule critical for T cell activation, function and development.
Role: co-investigator Pathologist \$85,000/year

R43 AI54082 Hamawy (PI) 8/01/02 - 8/01/03.
Preventing graft rejection using piceatannol.
Role: Co-investigator Pathologist

- NIH, SBIR (subcontract from Renovar, Inc.) Hamawy(PI) 2/1/04-7/31/04
Preventing Graft Rejection with Piceatannol
Major Goal: This study investigates whether piceatannol is useful for preventing graft
rejection in a preclinical non-human primate transplant model.
Role: Co-Investigator Pathologist \$32,992

NHLB1 R01 HL56755 Wolff (PI) 7/96 – 06/00
"Alterations in dynamic myofibrillar function in dilated cardiomyopathies"

Role: Co-investigator

Research Associate 75%

250,000/year

Publications

Referred Articles

1. Adams TN, Newton CA, Batra K, Abu-Hijleh M, Barbera T, **Torrealba J**, Glazer CS. Utility of Bronchoalveolar Lavage and Transbronchial Biopsy in Patients with Hypersensitivity Pneumonitis. *Lung*. 2018 Jun 29. doi: 10.1007/s00408-018-0139-1. [Epub ahead of print] PMID: 29959521
2. Richardson TE, Butt YM, **Torrealba JR**, Gokaslan ST. Meningothelial-like Nodules of the Lung Show SSTR2a Immunohistochemical Staining. *Arch Pathol Lab Med*. 2018 Jul;142(7):781-782. doi: 10.5858/arpa.2018-0079-LE.
3. Wang T, Lu R, Kapur P, Jaiswal BS, Hannan R, Zhang Z, Pedrosa I, Luke JJ, Zhang H, Goldstein LD, Yousuf Q, Gu YF, McKenzie T, Joyce A, Kim MS, Wang X, Luo D, Onabolu O, Stevens C, Xie Z, Chen M, Filatenkov A, **Torrealba J**, Luo X, Guo W, He J, Stawiski E, Modrusan Z, Durinck S, Seshagiri S, Brugarolas J. An Empirical Approach Leveraging Tumorgrafts to Dissect the Tumor Microenvironment in Renal Cell Carcinoma Identifies Missing Link to Prognostic Inflammatory Factors. *Cancer Discov*. 2018 Jun 8. pii: CD-17-1246. doi: 10.1158/2159-8290.CD-17-1246. [Epub ahead of print] PMID: 29884728
4. Agashe VV, Jankowska-Gan E, Keller M, Sullivan JA, Haynes LD, Kernien JF, **Torrealba JR**, Roenneburg D, Dart M, Colonna M, Wilkes DS, Burlingham WJ. Leukocyte-Associated Ig-like Receptor 1 Inhibits Th1 Responses but Is Required for Natural and Induced Monocyte-Dependent Th17 Responses. *J Immunol*. 2018 Jul 15;201(2):772-781. Doi 10.4049/jimmunol.1701753. Epub 2018 Jun 8. PMID: 29884698
5. **Torrealba J**, Gattineni J, Hendricks AR. Proliferative Glomerulonephritis with Monoclonal Immunoglobulin G Lambda Deposits: Report of the First Pediatric Case. *Case Rep Nephrol Dial*. 2018 Apr 24;8(1):70-75. doi: 10.1159/000488641. eCollection 2018 Jan-Apr. PMID: 29850460 Free PMC Article
6. Shah PN, Shah KN, Smolen JA, Tagaev JA, **Torrealba J**, Zhou L, Zhang S, Zhang F, Wagers PO, Panzner MJ, Youngs WJ, Wooley KL, Cannon CL. A novel in vitro metric predicts in vivo efficacy of inhaled silver-based antimicrobials in a murine *Pseudomonas aeruginosa* pneumonia model. *Sci Rep*. 2018 Apr 23;8(1):6376.
7. Batra K, Butt YM, Glazer C, Gokaslan T, Burguete D, Glazer C, **Torrealba JR**. Pathology-Radiology Correlation of Idiopathic Interstitial Pneumonias. *Hum Pathol*. 2018; 72: 1-17
8. **Torrealba JR**, Fisher S, Kanne JP, Butt YM, Glazer C, Kershaw C, Burguete D, Gokaslan T, Batra K. Pathology-Radiology Correlation of Common and Uncommon CT Patterns of Organizing Pneumonia. *Hum Pathol*. 2018; 71: 20-40
9. Faubert B, Li KY, Cai L, Hensley CT, Kim J, Zacharias LG, Yang C, Do QN, Doucette S, Burguete D, Li H, Huet G, Yuan Q, Wigal T, Butt Y, Ni M, **Torrealba J**, Oliver D,

Lenkinski RE, Malloy CR, Wachsmann JW, Young JD, Kernstine K, DeBerardinis RJ. Lactate Metabolism in Human Lung Tumors. *Cell*. 2017 Oct 5;171(2):358-371.e9. doi: 10.1016/j.cell.2017.09.019. PMID: 28985563

10. Zens TJ, Danobeitia JS, Chlebeck PJ, Zitur LJ, Odorico S, Brunner K, Coonen J, Capuano S, D'Alessandro AM, Matkowskyj K, Zhong W, **Torrealba J**, Fernandez L. Guidelines for the management of a brain death donor in the rhesus macaque: A translational transplant model. *PLoS One*. 2017 Sep 19;12(9):e0182552. doi: 10.1371/journal.pone.0182552. eCollection 2017. PMID: 28926566
11. Henry G, Malewska A, Mauck R, Gahan J, Hutchinson R, **Torrealba J**, Francis F, Roehrborn C, Strand D. Molecular pathogenesis of human prostate basal cell hyperplasia. *Prostate*. 2017 Aug 10. doi: 10.1002/pros.23394. [Epub ahead of print] PMID: 28795417
12. Filatenkov A, Richardson TE, Daoud E, Johnson-Welch SF, Ramirez DM, **Torrealba J**, Greenberg B, Monson NL, Rajaram V. Persistence of parenchymal and perivascular T-cells in treatment-refractory anti-N-methyl-D-aspartate receptor encephalitis. *Neuroreport*. 2017 Aug 2. doi: 10.1097/WNR.0000000000000851. [Epub ahead of print] PMID: 28777260
13. Ley B, Newton CA, Arnould I, Elicker BM, Henry TS, Vittinghoff E, Golden JA, Jones KD, Batra K, **Torrealba J**, Garcia CK, Wolters PJ. The MUC5B promoter polymorphism and telomere length in patients with chronic hypersensitivity pneumonitis: an observational cohort-control study. *Lancet Respir Med*. 2017 Aug;5(8):639-647. doi: 10.1016/S2213-2600(17)30216-3. Epub 2017 Jun 22. PMID: 28648751
14. Maziad ASA, **Torrealba J**, Seikaly MG, Hassler JR, Hendricks AR. Renal-Limited "Lupus-Like" Nephritis: How Much of a Lupus? *Case Rep Nephrol Dial*. 2017 May 8;7(2):43-48. doi: 10.1159/000475493. eCollection 2017 May-Aug. PMID: 28612005
15. Newton CA, Batra K, **Torrealba J**, Meyer K, Raghu G, Garcia CK. Pleuroparenchymal fibroelastosis associated with telomerase reverse transcriptase mutations. *Eur Respir J*. 2017 May 11;49(5). pii: 1700696. doi: 10.1183/13993003.00696-2017. Print 2017 May. PMID: 28495683
16. Costa DN, Chatzinoff Y, Passoni NM, Kapur P, Roehrborn CG, Xi Y, Rofsky NM, **Torrealba J**, Francis F, Futch C, Hagens P, Notgrass H, Otero-Muinelos S, Pedrosa I, Chopra R. Improved Magnetic Resonance Imaging-Pathology Correlation With Imaging-Derived, 3D-Printed, Patient-Specific Whole-Mount Molds of the Prostate. *Invest Radiol*. 2017 Sep;52(9):507-513. doi: 10.1097/RLI.0000000000000372. PMID: 28379863
17. Otis JP, Pike AC, **Torrealba JR**, Carey HV. Hibernation reduces cellular damage caused by warm hepatic ischemia-reperfusion in ground squirrels. *J Comp Physiol B*. 2017 May;187(4):639-648. doi: 10.1007/s00360-017-1056-y. Epub 2017 Jan 31. PMID: 28144740
18. Franco LH, Nair VR, Scharn CR, Xavier RJ, **Torrealba JR**, Shiloh MU, Levine B. The Ubiquitin Ligase Smurf1 Functions in Selective Autophagy of Mycobacterium

tuberculosis and Anti-tuberculous Host Defense. *Cell Host Microbe*. 2017 Jan 11;21(1):59-72.

19. Vasanth P, Parmley M, **Torrealba J**, Hamdi T. Interstitial Nephritis in a Patient with Inflammatory Bowel Disease. *Case Rep Nephrol*. 2016; 2016:4260365.
20. Newton CA, Batra K, **Torrealba J**, Kozlitina J, Glazer CS, Aravena C, Meyer K, Raghu G, Collard HR, Garcia CK. Telomere-related lung fibrosis is diagnostically heterogeneous but uniformly progressive. *Eur Respir J*. 2016 Dec;48(6):1710-1720.
21. Beg MS, Azad NS, Patel SP, **Torrealba J**, Mavroukakis S, Beatson MA, Wang XP, Arlen PM, Morse MA. A phase 1 dose-escalation study of NEO-102 in patients with refractory colon and pancreatic cancer. *Cancer Chemother Pharmacol*. 2016 Sep;78(3):577-84.
22. Hensley CT, Faubert B, Yuan Q, Lev-Cohain N, Jin E, Kim J, Jiang L, Ko B, Skelton R, Loudat L, Wodzak M, Klimko C, McMillan E, Butt Y, Ni M, Oliver D, **Torrealba J**, Malloy CR, Kernstine K, Lenkinski RE, DeBerardinis RJ. Metabolic Heterogeneity in Human Lung Tumors. *Cell*. 2016 Feb 11;164(4):681-94.
23. Georgescu MM, Pinho Mda C, Richardson TE, **Torrealba J**, Buja LM, Milewicz DM, Raisanen JM, Burns DK. The defining pathology of the new clinical and histopathologic entity ACTA2-related cerebrovascular disease. *Acta Neuropathol Commun*. 2015 Dec 4;3(1):81.
24. Keith Meyer · Jennifer Bierach · Jeffrey Kanne · **Jose Torrealba** · Nilto De Oliveira. Acute fibrinous and organising pneumonia following lung transplantation is associated with severe allograft dysfunction and poor outcome. *Pneu*, 2015, 6/648
25. Jason N. Rosenbaum, MD^{1#}; Yasmeen M. Butt, MD^{2#}; Karen A. Johnson, MD¹; Keith Meyer, MD³; Kiran Batra, MD⁴; Jeffrey P. Kanne, MD⁵; **José R Torrealba**, MD^{2*} Pleuroparenchymal fibroelastosis (PPFE): A Pattern of Chronic Lung Injury. *Human Pathology*, 2015 Jan;46(1):137-46
26. Glab RC1, Gunderson M2, **Torrealba J**, Bauer B4, Dailey SH5. Elucidation of soft tissue flap histologic margins within a canine vocal fold. *Histol Histopathol*. 2014 Jul 15. [Epub ahead of print]
27. Batra K, Wadhwa V, **Torrealba J**, Suhny A, Glazer C. Sjogren Syndrome and Emphysema. *Clinical Pulmonary Medicine* 01/2014; 21(4):193-195.

28. Obadina ET, **Torrealba J**, Kanne JP. Acute pulmonary injury: high-resolution CT and histopathological spectrum. *Br J Radiol*. 2013 Jul;86(1027):20120614.
29. Niederhaus SV, Levenson GE, Lorentzen DF, Robillard DJ, Sollinger HW, Pirsch JD, **Torrealba JR**, Odorico JS. Acute cellular and antibody-mediated rejection of the pancreas allograft: incidence, risk factors and outcomes. *Am J Transplant*. 2013 Nov;13(11):2945-55. doi: 10.1111/ajt.12443. Epub 2013 Sep 19.
30. Saurer EM, Jewell CM, Roenneburg DA, Bechler SL, **Torrealba JR**, Hacker TA, Lynn DM. Polyelectrolyte multilayers promote stent-mediated delivery of DNA to vascular tissue. *Biomacromolecules*. 2013 May 13;14(5):1696-704. doi: 10.1021/bm4005222. Epub 2013 May 2.
31. Djamali A, Muth BL, Ellis TM, Mohamed M, Fernandez LA, Miller KM, Bellingham JM, Odorico JS, Mezrich JD, Pirsch JD, D'Alessandro TM, Vidyasagar V, Hofmann RM, **Torrealba JR**, Kaufman DB, Foley DP. Increased C4d in post-reperfusion biopsies and increased donor specific antibodies at one-week post transplant are risk factors for acute rejection in mild to moderately sensitized kidney transplant recipients. *Kidney Int*. 2013 Jun;83(6):1185-92. doi: 10.1038/ki.2013.44. Epub 2013 Feb 27.
32. Pauly SK, Fechner JH, Zhang X, **Torrealba J**, Bradfield CA, Mezrich JD. The Aryl Hydrocarbon Receptor Influences Transplant Outcomes in Response to Environmental Signals. *Toxicol Environ Chem*. 2012;94(6):1175-1187. Epub 2012 Jun 20. PMID: 23002321 [PubMed]
33. Vidyasagar A, Reese SR, Hafez O, Huang LJ, Swain WF, Jacobson LM, Torrealba JR, Chammas PE, Wilson NA, Djamali A. Tubular expression of heat-shock protein 27 inhibits fibrogenesis in obstructive nephropathy. *Kidney Int*. 2012 Sep 12. doi: 10.1038/ki.2012.336. [Epub ahead of print] PMID: 22971995 [PubMed - as supplied by publisher]
34. Djamali A, Reese S, Hafez O, Vidyasagar A, Jacobson L, Swain W, Kolehmainen C, Huang L, Wilson NA, Torrealba JR. Nox2 is a mediator of chronic CsA nephrotoxicity. *Am J Transplant*. 2012 Aug;12(8):1997-2007. doi: 10.1111/j.1600-6143.2012.04081.x. Epub 2012 May 8. PMID: 22568654 [PubMed - in process]
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Non-Refereed Articles - Chapters in Books

1. **Jose R. Torrealba** and Milagros D. Samaniego. The Kidney Transplant Biopsy. In *Kidney Transplantation: A Guide to the Care of Kidney Transplant Recipients*, p. 169-190. McKay and Steinberg, editors. Springer, New York. ISBN: 978-1-4419-1689-1, 2010. (C: 80%; M: 0%; D:80%; A: 80%; W:100%)
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Abstracts (96 Abstracts presented in National and International Scientific Meetings. Listed are the most current 18 Abstracts)

1. Jared Hassler, MD¹, Venkatesh K Ariyamuthu, MD², Allen Hendricks, MD¹, Bekir Tanriover, MD² and Jose R Torrealba, MD¹. Banff 2013 Classification of Renal Allograft Pathology is Superior to Banff 2007 in Detecting and Managing Milder and Earlier Cases of Antibody-Mediated Rejection. American Transplant Congress, 2017
2. Yasmeen M Butt, MD¹, Tunc Gokaslan, MD¹, Vaidehi Kaza, MD², Fernando Torres, MD² and Jose R Torrealba, MD¹. C4d Immunohistochemistry in Lung Allograft Interstitial Capillaries Lacks Linear Correlation with Donor Specific Antibodies, yet it is still Diagnostically Relevant. American Transplant Congress, 2017

3. Elena Daoud, MD¹, Yasmeen M Butt, MD¹, Fernando Torres, MD² and Torrealba R Jose, MD¹. HLA, ANA, and ANCA Negative Vasculitis in Lung Transplantation Due to Overexpression of α 1 Collagen V. American Transplant Congress, 2017
4. Y. Butt, J Torrealba. A rare case of Cushing Syndrome Caused by ACTH-producing Pulmonary Carcinoid Tumor. Am J Clin Pathol 144 (Supp 2):A276, September 2015
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6. Jose Torrealba. Kiran Batra. Mimics of interstitial lung disease. Thoracic imaging, Jan 2015, annual meeting of the Society of Thoracic Radiology
7. Yasmeen M Butt, MD; Jared Hassler, MD; Jose Torrealba, MD. Histologic Patterns of C4d Associated With Acute Antibody Mediated Rejection of the Lung Allograft. Am J of Transplantation, May 2015 Y Butt, J Torrealba.
8. Yasmeen M. Butt, MD¹ (yasmeen.butt@phhs.org); Jason N. Rosenbaum, MD³; Karen A. Johnson, MD³; Kiran Batra, MD²; Jeffrey P Kanne, MD⁴; Jose R. Torrealba, MD.¹ Pleuroparenchymal Fibroelastosis: A Report of the First 2 Cases Diagnosed at Autopsy (Poster No. 144). Archives of Pathology, Vol. 138, Issue 9 (September 2014)
9. Jared Hassler, MD¹ (jared.hassler@phhs.org); Yasmeen Butt, MD¹; Drew Roenneburg, Bsc²; Jose R. Torrealba, MD. TGF β and Foxp3. Regulatory Cells in the Long-Term Tolerant Kidney Allografts in Rhesus Monkeys (Poster No. 54) Archives of Pathology, Vol. 138, Issue 9 (September 2014)
10. Jose Torrealba, MD¹, Drew Roenneburg², William Burlingham² and Stuart Knechtle³. ¹Pathology, University of Texas Southwestern Medical Center, Dallas, TX, United States; ²Surgery, University of Wisconsin, Madison, WI, United States and ³Surgery, Emory University, Atlanta, GA, United States. Histopathology of Long Term Tolerant Kidney Allografts in Rhesus monkeys. Transplantation, June 2014
11. Jose Torrealba, MD¹, Drew Roenneburg² and Arjang Djamali, MD³. ¹Pathology, University of Texas Southwestern, Dallas, TX, United States; ²Surgery, University of Wisconsin, Madison, WI, United States and ³Medicine, University of Wisconsin, Madison, WI, United States. Chronic Allograft Vasculopathy: An Entity Related to the Downregulation of Selenium Binding Protein 1. Transplantation, June 2014
12. Jose Torrealba, MD¹, Weixiong Zhong, MD, PhD¹, Shannon Reese, BS¹, Aparna Vidyasagar, BS¹, Millie Samaniego, MD¹, Hans Sollinger, MD, PhD¹ and Arjang Djamali, MD¹. ¹Medicine, Surgery and Pathology, UW SMPH, Madison, WI. Selenium supplementation may prevent kidney fibrogenesis independent from its effect on Selenium Binding Protein-1. American Journal of Transplantation, May 2012
13. Deferasirox-Induced Acute Kidney Injury and Fanconi's Syndrome. Mohsen Eiramah, Murphy Noreen, Hemender Vats, Zong Weixiong, Torrealba Jose and Chan Micah. ASN Kidney Week 2012 Annual Meeting, November 1-4, San Diego, California.

Poster presentation.

14. Pre and Post-Transplant Histopathologic Parameters Associated with Kidney Allograft Outcomes. *Jose R. Torrealba, Silke Niederhaus, Molly Gurney, Drew Roenneberg, John Pirsch, Hans Sollinger, Milagros Samaniego, Arjang Djamali. Pathology and Laboratory Medicine, University of Wisconsin, Madison, WI; Surgery, University of Wisconsin, Madison, WI; Medicine, University of Michigan, Ann Arbor, MI; Medicine, University of Wisconsin, Madison, WI; Pathology, W.M. VA Medical Center, Madison, WI. American Journal of Transplantation, May 2011*
15. Pancreas Antibody Mediated Rejection: Correlation of Donor Specific Antibodies and C4d Staining of the Allograft. *Silke V. Niederhaus, Jon S. Odorico, Glen E. Levenson, Delores J. Robillard, Janet M. Bellingham, Yolanda T. Becker, Hans W. Sollinger, John D. Pirsch, Jose R. Torrealba. Department of Surgery, University of Wisconsin, Madison, WI; Department of Surgery, University of Chicago, Chicago, IL; Department of Pathology, University of Wisconsin, Madison, WI. American Journal of Transplantation, May 2011*
16. Long-Term Outcomes of the Four Most Common Primary Glomerular Diseases Following Transplantation. *Shaikh T. Sumaira, John Pirsch, Jose Torrealba, Maha Mohamed, Vijay Vidyasagar, Glen Levenson, Brenda Muth, Arjang Djamali. Department of Medicine and Surgery, University of Wisconsin Hospital and Clinics, Madison, WI. American Journal of Transplantation, May 2011*
17. Incidence of and Risk Factors for Antibody Mediated Rejection of the Pancreas Allograft. *Silke V. Niederhaus, Glen E. Levenson, Delores J. Robillard, Yolanda T. Becker, Janet M. Bellingham, John D. Pirsch, Hans W. Sollinger, Jose R. Torrealba, Jon S. Odorico. Department of Surgery, University of Wisconsin, Madison, WI; Department of Surgery, University of Chicago, Chicago, IL; Department of Pathology, University of Wisconsin, Madison, WI. American Journal of Transplantation, May 2011*
18. Molly Gurney, Nikole Neidlinger, Arjang Djamali, Jon Odorico, John Pirsch, Anthony M. D'Alessandro, Hans W Sollinger, Jose Torrealba. Pathology, University of Wisconsin and VA W Middleton VA Hospital, Madison, WI; Surgery, University of Wisconsin, Madison, WI; Medicine, University of Wisconsin, Madison, WI. Donor small vessel disease and interstitial fibrosis correlate with short term kidney allograft dysfunction. *Transplantation, August 2010*

Invited Presentations

Local

1. **Jose R. Torrealba.** Special Techniques for Kidney Pathology. Invited speaker for the Updates in Histology Seminar. Annual Current Issues in Surgical Pathology, Medical City Dallas Hospital, Dallas, Texas, March 2014

2. **Jose R. Torrealba.** Pathologist Night Out Conference, May 10, 2011. Update on Adenocarcinoma of the Lung. Sponsored by the University of Wisconsin, Madison; and Meriter Hospital, Madison, Wisconsin
3. **Jose R Torrealba.** Immunopathology of solid organ transplantation. University of Wisconsin, Madison, Wisconsin, April 2011. Lecturer Pathology 704, University of Wisconsin, Madison, Wisconsin
4. **Jose R. Torrealba.** Pathologist Night Out Conference, April 12, 2011. Non-neoplastic Lung Diseases. Sponsored by the University of Wisconsin, Madison; and Meriter Hospital, Madison, Wisconsin
5. **Jose R Torrealba.** Antibody-mediated rejection of non-renal intra-abdominal organs. Guest speaker to the Department of Surgery noon conference. University of Wisconsin, Madison, Wisconsin, April 6, 2009. Sponsored by the Division of Transplantation, University of Wisconsin.
6. **Jose R Torrealba.** Kidney Allograft Pathology: Banff and Beyond. Guest speaker to the , Department of Surgery noon conference. University of Wisconsin, Madison, Wisconsin, October 6, 2008. Sponsored by the Division of Transplantation, University of Wisconsin.
7. **Jose R Torrealba.** Renal transplant pathology update - chronic active antibody and cellular rejection. Invited speaker to Kidney Grand Rounds, University of Wisconsin-Madison, School of Medicine and Public Health, Nephrology Section. Madison, Wisconsin, USA April 20, 2008.
8. **Jose R Torrealba.** Transforming Growth Factor β 1 and the Immunopathologic Assessment of Transplantation Tolerance. Guest speaker, Department of Pathology and Laboratory Medicine, University of Wisconsin, Madison, Wisconsin, April 16, 2004.
9. **Jose R Torrealba.** Transforming Growth Factor β 1 and the Immunopathologic Assessment of Transplantation Tolerance. Guest speaker, Department of Surgery, University of Wisconsin, Madison, Wisconsin, March 1st, 2004. Sponsored by Roche and the Division of Transplantation, University of Wisconsin.

National/International

1. **Jose R. Torrealba.** Guest speaker, 3-day course of Native and Transplant Renal Pathology, Hospital del Mar, Barcelona, Spain, 07/10 to 07/12 2018
2. **Jose R. Torrealba.** Is Banff 2013 classification of renal allograft pathology superior to 2007 Banff in detecting and managing cases of antibody- mediated rejection? Oral Presentation. 2018 International Congress of the Transplantation Society. Madrid, Spain, July 2nd, 2018

3. **Jose R. Torrealba.** Invited Speaker to the Midday Didactic: Acute and Chronic Antibody Mediated Rejection in Lung Transplant: Alloimmunity and Autoimmunity. Antibody-Mediated Rejection in the Lung Transplant. Overview, Incidence, Treatment and Outcome - The UTSW Experience, June 3, 2018
4. **Jose R. Torrealba.** Transplant Pathology for the General Pathologist. Invited speaker for the 30th Annual Current Issues in Surgical Pathology, UTSW Medical Center, Dallas, Texas, May 2014
5. **Jose R. Torrealba.** Interstitial Lung Disease, an update. Invited speaker for the 29th Annual Current Issues in Surgical Pathology, UTSW Medical Center, Dallas, Texas, May 2013
6. **Jose R. Torrealba.** Pancreas antibody-mediated rejection: the Wisconsin experience. Invited speaker, Sunrise symposium in Pancreas Antibody-mediated rejection. Boston, June 2012
7. **Jose R. Torrealba.** Pathology of animal models of intestinal adenocarcinoma. Invited presenter for Jackson Laboratories/National Cancer Institute, Bar Harbor, Maine, September, 2010
8. **Jose R. Torrealba.** Pathology of the kidney allograft. Invited speaker for Bristol-Meyer kidney transplant training course, New Jersey, September, 2009
9. **Jose R. Torrealba.** Antibody mediated-rejection of pancreas allografts: Wisconsin experience. Invited speaker to the 10th Banff Conference of Allograft Pathology. University of Alberta, Canada (August 12, 2009)
10. **Jose R. Torrealba.** Antibody-mediated rejection of non-renal intra-abdominal organs. Invited speaker for the American Society of Transplantation Winter Symposium, Banff, Alberta, Canada, March 5, 2009
11. **Jose R Torrealba.** Kidney Transplant Pathology in Highly sensitized patients: Banff and Beyond. Invited speaker to Transplant Course: The Management of the High Risk Kidney Transplant Recipients: The State of the Art. National Kidney Foundation Spring 09 Clinical Meetings, Nashville, TN, USA, March 25-29, 2009
12. **Jose R. Torrealba.** Antibody-mediated rejection of non-renal intra-abdominal organs. Invited speaker, Saskatoon Health Region, HLA Laboratory, University of Saskatchewan, Saskatoon , Canada, March 2, 2009
13. **Jose R. Torrealba.** Pathology of Diffuse Parenchyma Lung Diseases Invited speaker for the Teleconference program, American Society of Clinical Pathology teleconference, November 2008. (Audience: Surgical Pathologists, Pathology Residents, Physician Assistants and Medical Students)
14. **Jose R. Torrealba.** Selenium binding protein-1 in chronic allograft rejection. Invited speaker for the PepCon BIT Life Sciences' 1st Annual Protein and Peptide Conference, Session 2 Breakthrough in Major disease proteomics and system

biology, Shenzhen, China, April 23, 2008

15. **Jose R Torrealba.** TA, IF: the ABC of Transplant Pathology. Invited speaker to Transplant Course: Transplantation Trends in the 21st Century, National Kidney Foundation Spring 08 Clinical Meetings, Dallas, Texas, USA April 2, 2008.
16. **Jose R Torrealba.** Transplantation Tolerance and Transforming Growth Factor β 1 in a non-human primate model of renal allografts. Guest speaker, Department of Pathology, University of Saskatchewan, Saskatoon, Saskatchewan, Canada, July, 2005.
17. **Jose R Torrealba,** M. Katayama, J Schultz, S Kusaka, E Jankowska-Gan E, J Fechner, T Oberley, M Hamawy, S Knechtle, W. Burlingham. TGF β -dependent immune regulation during renal allograft acceptance I. Association of latent TGF β + CD4+ lymphocytic graft infiltrates with a regulated DTH response of Rhesus monkey PBMC to donor antigen. Plenary presentation, American Transplant Congress 2003, Washington, May 2003. Article winner of the 2003 Young Investigator Award.
18. **Jose R Torrealba.** Human Fetal Troponin T reduces maximal ATPase activity in vitro. Guest Speaker, Teaching Medical Center "La Trinidad", Caracas, Venezuela, April 2000.

Educational Activities

Classroom Teaching

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| 2012 - present | Renal Pathology, Course Director: Lecturer (3 hours) and small Group Instructor, Medical School, University of Texas Southwestern Medical Center, Dallas, Texas, School of Medicine (Audience: Medical Students) |
| 2012 - present | Renal Pathology, Course Director: Lecturer (2 hours) and Small Group Instructor, University of Texas Southwestern Medical Center, Dallas, Texas, School of Medicine (Audience: Nephrology Fellows and Staff) |
| 2009 - 2012 | Integrated Renal System: Lecturer (2 hours) and Small Group Instructor, University of Wisconsin, School of Medicine and Public Health.(Audience: Medical Students) |
| 2009 - 2011 | Integrated Respiratory System. Coordinator Respiratory Pathology, Lecturer (4 hours) and Small Group Instructor, University of Wisconsin, School of Medicine and Public Health. (Audience: Medical Students) |
| 2009 - 2011 | Integrated Cardiovascular System. Small Group Instructor, University of Wisconsin, School of Medicine and Public Health .(Audience: Medical Students) |
| 2009 - 2011 | Foundations of Medicine. Small Group and Laboratory Instructor, |

- University of Wisconsin, School of Medicine and Public Health
.(Audience: Medical Students)
- 2006 – 2009 Pathology 704 - Respiratory Pathology Unit coordinator University of Wisconsin, School of Medicine and Public Health .(Audience: Medical Students)
- 2006 – 2009 Pathology 703 and 704, Medical Students, Small Group Instructor for General Pathology, and Pathology of Cardiovascular, Respiratory, Renal and Gastrointestinal Systems, University of Wisconsin, School of Medicine and Public Health .(Audience: Medical Students)
- 1/2001 – 2003 Sophomore Medical Students, Pathology 703. Instructor, Department of Pathology, University of Wisconsin .(Audience: Medical Students)
- 11/1995 – 2/1997 Junior Medical Students, Pathophysiology. Lecturer and Instructor, Faculty of Medicine, Central University of Venezuela.(Audience: Medical Students)
- 9/1992 – 6/1994 Junior Medical Students, Pathophysiology. Instructor, Faculty of Medicine, Central University of Venezuela (Audience: Medical Students)

Service Activities

National/International

- 2014-present Scientific reviewer for the Journal Transplantations Reviews
- 2014-present Scientific reviewer for the Journal Pediatric Nephrology
- 2013-present Scientific reviewer for the Journal Lung
- 2011-2012 Director “Post-Sophomore Fellowship” in Pathology, Department of Pathology and Laboratory Medicine, University of Wisconsin, Madison, Wisconsin
- 04/2011- present Editorial Board, Human Pathology, Elsevier
- 2011 - present Scientific reviewer for the International Journal of Transplantation
- 04/2011 - present Editorial Board, International Scholarly Research Network Immunology Journal
- 02/2011 - present Editorial Board, World Journal of Transplantation
- 2005-2011 Director “Angevine Fellowship” in Pathology for Medical Students,

Department of Pathology and Laboratory Medicine, University of Wisconsin, Madison, Wisconsin

- 2010-2012 Abstract Review Committee, American Transplant Congress, area: "Kidney immunosuppression – desensitization"
- 2010 Member of the Kidney Transplant BIFQUIT (Banff Initiative For Quality Assurance in Transplantation) group, a clinical trial to determine valuable patterns of C4d and BK virus in kidney allografts
- 09/2010 - present Panel of Pathologists for the review of animal models of colon cancer, Jackson Laboratories and National Cancer Institute
- 2009-present Scientific reviewer for Transplant Research and Risk Management Journal
- 2009-present Member of the Pancreas Transplant Biopsy reproducibility study, Banff Pancreas Pathology Study Group
- 2009-present Managing Editor, Journal of the Pancreas
- 2009-2010 Abstract Review Committee, American Transplant Congress, area: "Kidney immunosuppression – desensitization"
- 2008-present Member of the Reuters Insight Community of Experts
- 2008-2009 Abstract Review Committee, American Transplant Congress, area: "Kidney immunosuppression - desensitization"
- 2008 Abstract Review Committee Member, American Society of Nephrology Renal Week 2008 in "Transplantation Tolerance, Animal Models and Humans"
- 2007-present Scientific reviewer for Human Immunology
- 2007-2008 Member of the Banff-07 Committee of Experts to evaluate the pancreas allograft pathology criteria. Publication: "Banff Schema for Grading Pancreas Allograft Rejection: Working Proposal by a Multi-Disciplinary International Consensus Panel". Am J Transplant. 2008: 8 1-13
- 2007-2008 Abstract Review Committee, American Transplant Congress, area: "Kidney immunosuppression - desensitization"
- 2006-present Scientific reviewer for the American Journal of Transplantation
- 2006-2009 Consultant, Histocompatibility Laboratory, Saskatoon Health Region, Saskatchewan, Canada
- 2006 - present Grant Reviewer for COLCIENCIAS, the National Scientific Institute of Colombia

2003 - 2005

Laboratory Inspector for the College of American Pathology (CAP)