

Ping L. Zhang, M.D., Ph.D., FCAP, FASN

Professor, Department of Pathology and Laboratory Medicine
Oakland University William Beaumont School of Medicine

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ADDRESS

Corewell Health William Beaumont University Hospital (East)
Research Institute, Anatomic Pathology Office, Lower Level
3601 West Thirteen Mile Road
Royal Oak, MI 48073

EDUCATION AND TRAINING

- 07/01/98 – 06/30/99 Fellow, Renal Pathology, Department of Pathology
Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA
- 07/01/95 – 06/30/98 Residency, Anatomic Pathology, Department of Pathology
Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA
- 07/01/92 – 06/30/95 Post-Doctoral Fellow, Renal Division
Brigham and Women’s Hospital, Harvard Medical School, Boston, MA
- 01/11/88 – 05/09/92 Doctorate of Philosophy, Ph.D., Department of Physiology and Pharmacology
University of South Dakota, Vermillion, SD
- 09/01/81 – 07/01/86 Doctor of Medicine, M.D., Department of Medicine
Tianjin Medical University, Tianjin, P.R. China

PROFESSIONAL MEMBERSHIPS

- Renal Pathology Society (RPS)
- American Society of Nephrology (ASN)
- United States and Canadian Academy of Pathology (USCAP)
- College of American Pathologists (CAP)
- Michigan Pathology Society (MPS)

PROFESSIONAL, ACADEMIC, ADMINISTRATIVE, CLINICAL, MILITARY POSITIONS

Academic Positions

- 08/2012 – present Lecturer, Tubulointerstitial and Vascular Diseases of Kidneys
Oakland University William Beaumont School of Medicine, Rochester, MI
- 05/2009 – present Professor, Department of Pathology and Laboratory Medicine
Oakland University William Beaumont School of Medicine, Rochester, MI
- 02/2008 – present Lecturer, Renal Pathology and Lung Tumors
Oakland University William Beaumont School of Medicine, Rochester, MI

- 09/1999 – 12/2001 Renal Tumor Pathology and Pathology Labs
Louisiana State University Health Sciences Center, Shreveport, LA
- 07/1999 – 12/2001 Assistant Professor, Department of Pathology
Louisiana State University Health Sciences Center, Shreveport, LA
- 09/1986 – 12/1987 Instructor, Department of Histology and Embryology
Tianjin Second Medical College, Tianjin, China

Visiting Professorships / Lectureships

- 3/2015 Renal Division, Brigham and Women's Hospital, location for the presentation: Harvard Institutes of Medicine, Room 530, on March 23, 2015, 10–11 am. Titled: KIM-1 Morphologic Expression in Human Kidneys.
- 12/2012 Department of Nephrology, Henry Ford Hospital December 2012, 1 pm. Titled: Using kidney injury molecule-1 staining to understand renal diseases.
- 3/2011 Renal Division, Brigham and Women's Hospital, location for the presentation: Harvard Institutes of Medicine, Room 530, on March 11, 2011, 9 –10 am. Titled: Using kidney injury molecule -1 staining to understand renal diseases.
- 9/2008 Nephrology and Transplant Surgery Meeting, St Jones Hospital, September 12, 2008. Entitled: KIM-1: a new star in diagnosing renal injury.
- 3/2008 Research Institute Roundtable Presentation, William Beaumont Hospital, AB West LL, Classroom #2, March 3, 2008. Entitled: Kidney injury molecule 1: mystery and its utility in pathology diagnosis.

Research Grants

- 3/2016 – 2/2021 Clinical Proteomic Tumor Analysis Consortium (CPTAC) sponsored by the National Cancer Institute. Direct cost: \$ 648,555 for 5 years. PI: George D. Wilson, Ph.D.; Co-investigators: Mitual B. Amin, M.D., and **Ping L. Zhang, M.D., Ph.D.**
- 1/2016 – 12/2016 Beaumont Pilot Rsearch Award, entitled “Urine Protein Panel for Detecting Renal Cell Carcinoma (RCC) Using Mass Spectrometry.” total direct cost: \$ 10,000. PI: Jason M. Hafron, M.D., and Co-investigators: Timothy J. Geddes, BS, George D. Wilson, Ph.D., Amy Banes-Berceli, Ph.D. and **Ping L. Zhang, M.D., Ph.D.**
- 3/2015 – 3/2016 Beaumont Pilot Rsearch Award, entitled “Blood Kidney Injury Molecule-1 for the Detection of Germ Cell Neoplasms,” total direct cost: \$19,933 PI: Jason M. Hafron, M.D., Co-investigators: **Ping L. Zhang, M.D., Ph.D.**, Mitual B. Amin, M.D.
- 1/2014 – 12/2015 Research Award from Pfizer, Inc, PI: **Ping L. Zhang, M.D., Ph.D.**, title "Role of mTOR Inhibition in Treating ANCA Associated Crescentic Glomerulonephritis." Drug (Sirolimus 500 mg)-Only-Grant.
- 8/2009 – 7/2013 Research Award from Pfizer, Inc, PI: **Ping L. Zhang, M.D., Ph.D.** title " Role of Glomerular mTOR/p70S6K in Association with Proteinuria", total direct cost: \$178,098. Co-investigators: Wei Li, M.D., Ph.D. and Robert E. Brown, M.D.
- 6/2010 – 7/2011 Intramural resident research grant, PI: Joseph Mashni, M.D., title "A Urinary Tumor Marker (Kidney Injury Molecule-1) for the Detection of Renal Cell Carcinoma", total direct cost: \$10,000. Co-investigators: Jason M. Hafron, M.D., **Ping L. Zhang, M.D., Ph.D.** and Mitual B. Amin, M.D.

- 1/2006 – 12/2007 Geisinger Intramural Funding, PI: **Ping L. Zhang, M.D., Ph.D.** title “Role of Kidney Injury Molecule-1 in Identify Human Acute Tubular Necrosis,” total direct cost \$43,632.
- 1/2005 – 12/2005 Geisinger Intramural Funding, PI: Santosh Potdar, M.D., Co-investigators: **Ping L. Zhang, M.D., Ph.D.** and Sayeed K. Malek, M.D., title “Role of Blood Biomarkers in Detecting Acute Renal Rejection”, total direct cost: \$30,492.
- 4/2005 Geisinger Auxillary Award, PI: Santosh Potdar, M.D., Co-investigators: **Ping L. Zhang, M.D., Ph.D.** and Sayeed K. Malek, M.D., title “Using Biomarkers to Detect Acute Renal Rejection”, total direct cost: \$14,000.
- 7/2003 – 6/2005 PI: **Ping L. Zhang, M.D., Ph.D.**, Beginning-Grant-in-Aid, American Heart Association, Pennsylvania-Delaware Affiliate, total direct cost \$100,000.
- 7/2002 – 6/2004 PI: **Ping L. Zhang, M.D., Ph.D.**, Multidisciplinary Project, Geisinger Medical Center, Title of the Project: Role of Endoplasmic Reticulum Stress Proteins in Cardiac Ischemia, total direct cost: \$72,900.
- 7/1999 – 6/2000 PI: **Ping L. Zhang, M.D., Ph.D.**, Young Investigator Award, Louisiana State University Medical Center, Title of the Project: Role of ER Chaperones in H9C2 Cardio myocytes, total direct cost \$10,000.

Clinical Positions

- 11/01/16 – present Associate Director, Department of Anatomic Pathology
Corewell Health William Beaumont University Hospital, Royal Oak, MI
- 02/2008 – present Chief, Nephropathology & Medical Director of Electron Microscopic Laboratory
Corewell Health William Beaumont University Hospital, Royal Oak, MI
- 01/2002 – 01/2008 Director of Renal and Transplant Pathology, Division of Laboratory Medicine
Geisinger Medical Center, Danville, PA
- 01/2002 – 01/2008 Director of Renal & Transplant Pathology, Division of Laboratory Medicine
Geisinger Medical Center, Danville, PA

PUBLICATIONS

- Patel KP and **Zhang PL**: Reduced renal responses to volume expansion on streptozotocin-induced diabetic rats. *Am J Physiol* 257:R672-R679, 1989.
- Patel KP and **Zhang PL**: Attenuated renal responses to atrial natriuretic factor in streptozotocin-induced diabetic rats. *Can J Physiol Pharmacol* 68:425-430, 1990.
- Zhang PL** and Patel KP: Blunted diuretic and natriuretic responses to the central administration of clonidine in streptozotocin-induced diabetic rats. *Diabetes* 40:338-343, 1991.
- Zhang PL**, Patel MB and Patel KP: Renal responses to acute volume expansion and atrial natriuretic factor in streptozotocin-induced diabetic rats. *Diab Rese Clin Prac* 14:37-46, 1991.
- Kauker ML, **Zhang PL**, Zergler DW and Patel KP: Blunting of the renal response to volume expansion by a bradykinin receptor antagonist: influence of denervation. *J Pharmacol Exp Ther* 258(3):866-870, 1991.

Patel MB, **Zhang PL**, Patel AC and Patel KP: Altered pressure-volume relation of right atrium and veno-atrial junction in diabetic rats. *Am J Physiol* 263 (4 Pt 2):H1017-1020, 1992.

Patel KP and **Zhang PL**: Renal responses to acute volume expansion in young spontaneously hypertensive rats. *Clin and Expt Hypertension* 15 (1):91-104, 1993.

Patel KP and **Zhang PL**: The role of renal nerve in the renal responses to acute volume expansion and natriuretic factor during pregnancy in rats. *Proc Soc Expt. Bio Med* 203 (2):150-156, 1993.

Patel KP, **Zhang PL** and Krukoff TL: Alteration in brain hexokinase activity associated with heart failure in rats. *Am J Physiol* 65:R923-R928, 1993.

Zhang PL, Mackenzie HS, Troy JL and Brenner BM: Effects of an atrial natriuretic peptide receptor antagonist on glomerular hyperfiltration in diabetic rats. *J Am Soc Nephrol* 4:1564-1570, 1994.

Zhang PL, Mackenzie HS, Troy JL and Brenner BM: Effects of natriuretic peptide receptor inhibition on remnant kidney function in rats. *Kid International* 46:414-420, 1994.

Zhang PL, Jimenez W, Mackenzie HS, Guo J, Troy JL, Ros J, Angeli P, Arroyo V, and Brenner BM: HS-142-1, A potent antagonist of natriuretic peptides *in vitro* and *in vivo*. *J Am Soc Nephrol* 5:1099-1105, 1994.

Patel KP and **Zhang PL**: reduced renal sympathoinhibition in response to acute volume expansion in diabetic rats. *Am J Physiol* 267:R372-R379, 1994.

Angeli P, Jimenez W, Arroyo V, Mackenzie HS, **Zhang PL**, Claria J, Rivera F, Brenner BM, and Rodes J: Renal effects of natriuretic peptide receptor blockade in cirrhotic rats with ascites. *Hepatology* 20:948-954, 1994.

Patel KP, **Zhang PL** and Mayhan WG: Blunting of renal excretory responses to acute volume expansion by nicotine: role of renal nerves. *J Pharmacol Exp Ther* 274(3):1174-1181, 1995.

Zhang PL, Mackenzie HS, Totsune K, Troy JL and Brenner BM: Renal effects of high-dose natriuretic peptide receptor blockade in rats with congestive heart failure. *Circ Res* 77(6):1240-1245, 1995.

Kuznetsov G, Bush KT, **Zhang PL** and Nigam SK: Perturbations in maturation of secretory proteins and their association with endoplasmic reticulum chaperones in a cell culture model for epithelial ischemia. *Proc Natl Acad Sci* 93:8584-8589, 1996.

Patel KP, **Zhang PL** and Carmines PK: Neural influences on renal responses to acute volume expansion in rats with heart failure. *Am J Physiol* 271:H1441-H1448, 1996.

Patel KP, **Zhang PL**, Zeigler DW and Kauker ML: Renal response to volume expansion in streptozotocin-induced diabetic rats: influence of calcium channel blockade. *Diab Rese Clin Prac* 35:69-74, 1997.

Rosen S, **Zhang PL**, and Herrin J: Acute renal failure with limited histological abnormality: "acute tubular necrosis". *Pathol Case Rev* 3(4):199-203, 1998.

Bush KT, Sathish KG, **Zhang PL** and Nigam SK: Pretreatment with inducers of endoplasmic reticulum chaperones protects epithelial cells subjected to ATP depletion. *Am J Physiol* 277 (Renal Physiol 46):F211-F218, 1999.

Maranchie JK, Bouyounes BT, **Zhang PL**, O'Donnell MA, Summerhayes LC and DeWolft WC. Clinical and Pathological Characteristics of Micropapillary Transitional Cell Carcinoma: A Highly Aggressive Variant. *J Urol* 163:748-751, 2000.

- Zhang PL**, Rosen S, Herrera GA. An unusual appearing metanephric adenoma: features distinguishing it from other small blue cell tumors in the adult kidney. *Pathol Case Rev* 5(2):106-110, 2000.
- Zhang PL**, Bublely G, Upton M, Morgentaler A, Dewolf WC and Rosen S. Pathologic features of occult prostatic carcinoma in hypogonadal men. *Pros J* 2(2):74-79, 2000.
- Zhang PL**, Peters CA and Rosen S. Ureteropelvic junction obstruction: morphological and clinical studies. *Pedi Nephrol* 2000;14:820-826.
- Veeramachneni R, **Zhang PL**, Herrera GA. Benign myoepithelioma of the lung: Report of a case and review of the literature. *Archives of Pathology and Laboratory Medicine* 125:1494-1496, 2001
- Zhang PL**, Rosen S., Veeramachaneni R, Kao J, DeWolf WC, Bublely G. The Association between Prostate Cancer and Serum Testosterone Levels. *The Prostate* 53:179-182, 2002.
- Kao J, Upton M, **Zhang PL**, Rosen S. Individual prostate biopsy core embedding facilitates maximal tissue representation. *J Urol* 168-496-499, 2002.
- Sun W, **Zhang PL**, Herrera GA. P53 protein and Ki-67 overexpression in urothelial dysplasia of bladder. *Applied Immunohistochemistry & Molecular Morphology* 10(4): 327-331, 2002.
- Teng J, **Zhang PL**, Russell WJ, Zheng LP, Herrera GA. Role of blocking secretory pathway in overproduced extracellular matrix proteins in human mesangial cells exposed to glomerulopathic light chains. *Nephron* 94:28-38, 2003.
- Brown RE, Bostrom B, **Zhang PL**. Morphoproteomics and Bortezomib/Dexathasone-induced response in relapsed acute lymphoblastic leukemia. *Ann Clin Lab Sci* 34(2):203-205, 2004.
- Zhang PL**, Malek SK, Prichard JW, Lin F, Tahya TM, Schwartzman MS, Latsha RP, Skaletsky M, Norfolk ER, Brown RE, Hartle JE, Potdar S. Monocyte mediated acute renal rejection after combined treatment with preoperative campath-1H (Alemtuzumab) and postoperative immunosuppression. *Ann Clin Lab Sci* 34(2):209-213, 2004.
- Zhang PL**, Lun M, Siegelmann-Danieli N, Blasick TM, Brown RE. Pamidronate Resistance and Associated Low Ras Levels in Breast Cancer Cells: A Role for Combinatorial Therapy. *Ann Clin Lab Sci* 34(3):263-270, 2004.
- Brown RE, Lun M, Prichard JW, Blasick TM, **Zhang PL**. Morphoproteomic and Pharmacoproteomic Correlates in Hormone-Receptor-Negative Breast Carcinoma Cell Lines. *Ann Clin Lab Sci* 34(3):251-262, 2004.
- McLaren BK, **Zhang PL**, Herrera GA. P53 protein is a reliable marker in identification of renal tubular injury. *Appl Immunohistochem Mol Morphol* 12(3):225-229, 2004.
- Zhang PL**, Lun M, Teng J, Huang J, Blasick TB, Yin L, GA Herrera, and JY Cheung. Preinduced molecular chaperones in the endoplasmic reticulum protect cardiomyocytes from lethal injury. *Ann Clin Lab Sci* 34(4):449-457, 2004.
- Zhang PL**, Pellitteri PK, Law A, Gilroy PA, Wood GC, Kennedy TL, Blasick TM, Lun M, Schuerch C, Brown RE. Overexpression of phosphorylated nuclear factor-kappaB (p-NF-κB) in tonsillar squamous cell carcinoma and high-grade dysplasia is Associated with Poor Prognosis. *Modern Pathology* 18:924-932, 2005.
- Zhang PL**, Malek SK, Prichard JW, Lin F, Tahya TM, Schwartzman MS, Latsha RP, Norfolk ER, Blasick TM, Lun M, Brown RE, Hartle JE, Potdar S. Acute renal rejection predominated by monocytes is a severe form of rejection in human recipients with or without Campath-1H (Alemtuzumab) Induction Therapy. *Am J Transplantation* 5:604-607, 2005.

Lun M, **Zhang PL**, Siegelmann-Danieli N, Blasick TM, Brown RE. Intracellular Inhibitory Effects of Velcade Correlate with Morphoproteomic Expression of Phosphorylated-Nuclear Factor- κ B and p53 in Breast Cancer Lines. *Ann Clin Lab Sci* 35:15-24, 2005.

Zhang PL, Tahya TM, Prichard JW, John H. Shaw IV, Hartle JE, Lin F, Schwartzman MS, IgM type of membranous glomerulopathy in a diabetic patient. *Ann Clin Lab Sci* 35(2):113-224, 2005.

Lun M, **Zhang PL**, Pellitteri PK, Law A, Kennedy TL, Blasick TM, Brown Nuclear factor- κ B pathway as a therapeutic target in head and neck squamous cell carcinoma: pharmaceutical and molecular validation in human cell lines using Velcade and siRNA/NF- κ B. *Ann Clin Lab Sci* 35:251-258, 2005.

Schwartzman MS, **Zhang PL**, Potdar S, Malek SK, Norfolk ER, Hartle JE, Weicker CA, Yahya TM, Shaw JH. Transplantation and 6-month follow-up of renal transplantation from a donor with systemic lupus erythematosus and lupus nephritis. *Am J Transplant* 5: 1772-1776, 2005.

Brown RE, **Zhang PL**, Lun M, Zhu Shaobo, Pellitteri PK, Law A, Wood GC, Kennedy TL. Morphoproteomic and pharmacoproteomic rationale for mTOR effectors as therapeutic targets in head and neck squamous cell carcinoma. *Ann Clin Lab Sci* 36(3):273-282, 2006.

Liu B; Yang Y; Dai J; Medzhitov R; Freudenberg MA; **Zhang PL**; Li Z. TLR4 upregulation at protein or gene level is pathogenic for lupus-like autoimmune disease. *J Immuno* 177 (10): 6880-6888, 2006.

Lin F, **Zhang PL**, Yang XJ, Prichard JW, Lun M, Brown RE. Morphoproteomic and molecular concomitants of an overexpressed and activated mTOR pathways in renal cell carcinomas. *Ann Clin Lab Sci* 36 (3):283-293, 2006.

Zhang PL, Prichard JW, Lin F, Shultz SK, Malek SK, Shaw JH, Hartle JE. Chronic active thrombotic microangiopathy in native and transplanted kidneys. *Ann Clin Lab Sci* 36 (3): 319-325, 2006.

Zhang PL, Malek SK, Hartle JE, Potdar S. Campath-1H (Alemtuzumab) induction therapy changes CD52 expression in inflammatory cells in acute renal transplant rejection in humans. In: *Kidney Transplantation: New Research*. Edited by Judith Fox, Nova Science Publishers, Inc, Hauppauge, NY. 2006; page 85-103.

Lin F, **Zhang PL**, Yang ZJ, Shi J, Blasick TM, Han WK, Want H, Shen SS, The BT, Bonventre JV. Human kidney injury molecule-1 (hKIM-1): A useful immunohistochemical marker for diagnosing renal cell carcinoma and ovarian clear cell carcinoma. *Am J Surg Pathol* 31(3):371-381, 2007.

Zhang PL, Quiery AT, Blasick TM, Brown RE. Morphoproteomic expression of H-ras (p21ras) correlates with serum monoclonal immunoglobulin reduction in patients with multiple myeloma following pamidronate treatment. *Ann Clin Lab Sci* 37(1):34-38, 2007.

Zhang PL, Malek SK, Blasick TM, Pennington JR, Masker KK, Lun M, Potdar S. C4d positivity is more often associated with acute cellular rejection in renal transplant biopsies following campath-1H induction. *Ann Clin Lab Sci* 37(2):121-126, 2007.

Zhang PL, Pennington JR, Prichard JW, Blasick TM, Brown AM, Potdar S. CD52 Antigen may be a therapeutic target for eosinophilic rhinosinusitis. *Ann Clin Lab Sci* 37(2):148-151, 2007.

Sundaram S, Mainali R, Norfolk ER, Shaw JH, **Zhang PL**. Fibrillary glomerulopathy secondary to light chain deposition disease in a patient with monoclonal gammopathy. *Ann Clin Lab Sci* 37(4):370-374, 2007.

Brown RE, Zotalis GZ, **Zhang PL**, Zhao BH. Morphoproteomic confirmation of a constitutively activated mTOR pathway in high grade prostatic intraepithelial neoplasia and prostatic cancer. *Int J Clin Pathol* 1:333-342, 2008.

Zhang PL, Rothblum LI, Han WK, Blasick TM, Potdar S, Bonventre JB. Kidney injury molecule-1 expression in proximal tubules of renal transplant biopsies is a quantitative measure of proximal tubular cell injury. *Kidney Int* 73:608-614,2008.

Zhang PL, Lun M, Schworer CM, Blasick TM, Masker KK, Jones JB, Carey DJ. Heat shock protein expression is highly sensitive to ischemia-reperfusion injury in rat kidneys. *Ann Clin Lab Sci* 38:57-63, 2008.

Sundaram S, Brown RE, **Zhang PL**. An unusual type of colonic neuromuscular disorder with extensive vacuolization. *Ann Clin Lab Sci* 38(2):143-148, 2008.

Nepal M, Mainali R, Schworer CM, Difilippo W, **Zhang PL**, Schultz MF. Nephrotic Range Proteinuria: Rare Manifestation of Scleroderma Renal Crisis. *Ann Clin Lab Sci* 38(2): 163-167, 2008.

Lin F, Shi J, Liu H, Zhang J, **Zhang PL**, Wang HL, Yang XJ, Schuerch C. Immunohistochemical detection of the von Hippel-Lindau gene product (pVHL) in human tissues and tumors: a useful marker for metastatic renal cell carcinoma and clear cell carcinoma of the ovary and uterus. *Am J Clin Pathol* 129 (4); 592-605, 2008.

Nepal M, Bock GH, Sehic AM, Schultz MF, **Zhang PL**. Kidney injury molecule-1 expression identifies proximal tubular injury in urate nephropathy. *Ann Clin Lab Sci* 38(3): 210-214, 2008.

Zhang PL, Wilkerson ML, Schworer CM. C4d staining is a valuable marker in identifying chronic graft-versus-host disease in colonic biopsies following bone marrow transplantation. *Bone Marrow Transplant* 42; 209-211, 2008.

Zenali MJ, **Zhang PL**, Bendel AE, Brown RE. Morphoproteomic confirmation of constitutively activated mTOR, ERK, and NF-kappaB pathways in Ewing family of tumor. *Ann Clin Lab Sci* 39(2): 160-166, 2009.

Schröppel B, Krüger B, Walsh L, Yeung M, Harris S, Garrison K, Himmelfarb J, Lerner SM, Bromberg JS, **Zhang PL**, Bonventre JV, Wang Z, Farris AB, Colvin RB, Murphy BT, Vella JP. Tubular expression of KIM-1 does not predict delayed function after transplantation. *J Am Soc Nephrol* 2010;21(3):536-42.

Wiesend WN, Parasuraman R, Li W, Farinola MA, Rooney MT, Hicks SK, Sanarapungavan D, Cohn SR, Reddy GH, Rocher LL, Dumler F, Lin D, **Zhang PL**. Adjuvant role of p53 immunostaining in detecting BK viral infection in renal allograft biopsies. *Ann Clin Lab Sci* 40 (4): 324-329, 2010.

Desai HS, Parasuraman RK, Samarapungavan D, Rooney MT, Cohn SR, Reddy GH, Rocher LL, Dumler F, **Zhang PL**. Glomerulitis during acute cellular rejection may be a surrogate marker of vasculitis in renal allografts - better index for diagnosis of vasculitis. *Transplant Proc* 43, 1629-1633, 2011.

Parasuraman, R., **Zhang, PL**, Samarapungavan D., Pothugunta K., Reddy G, Rocher L., Dumler F, Raofi V, Cohn S., and Kofron A. Primary nonfunction of renal allograft secondary to acute oxalate nephropathy. *Case Reports Transplant* 2012 (doi: 10.1155/2011/876906, 4 pages).

Hayek S, Parasuraman RK, Harsha S, Desai H, Samarapungavan D, Li W, Stacy C, Wolforth SC, Reddy GH, Cohn SR, Rocher LL, Dumler F, Rooney MT, **Zhang PL**. Primary cilia metaplasia in renal transplant biopsies with acute tubular injury. *Ultrastructural Pathology* 2013;37(3): 159 – 163.

Schwartz JD, Dumler F, Hafron JM, Wilson GD, Wolforth SC, Rooney MT, Li W, **Zhang PL**. CD133 staining detects acute kidney injury and differentiates clear cell papillary renal cell carcinoma from other renal tumors. *ISRN Biomarkers*, Volume 2013, Article ID 353598, Page 1 – 8.

Li W, **Zhang PL**. Up regulated mTOR pathway indicates progressive disease in both native and transplant kidneys. *Ann Clin Lab Sci* 43 (4): 337-347, 2013.

Parasuraman R, **Zhang PL**, Samarapungavan D, Rocher L, Koffron A, Severe necrotizing adenovirus tubulointerstitial nephritis in a kidney transplant recipient. *Case Reports Transplant* volume 2013 (doi: 10.1155/2013/969186, 5 pages).

Zhang PL, Mashni JW, Sabbisetti VS, Schworer CM, Wilson GD, Wolforth, SC, Kernen KM, Seifman BD, Amin MB, Geddes TJ, Lin F, Bonventre JV, Hafron JM, Urine kidney injury molecule 1: a potential non-invasive biomarker for patients with renal cell carcinoma. *Int Urol Nephrol* DOI 10.1007/s11255-013-0522-z.

Johnson RK, Samarapungavan D, Parasuraman RK, Maine G, Rooney MT, Wolforth SC, Reddy GH, Cohn SR, Dumler F, Rocher LL, Li W, **Zhang PL**. Acute tubular injury is an important component in type 1 acute antibody-mediated rejection *Transplant Proc* 45(9): 3262-3268, 2013.

Parasuraman R, Wolforth SC, Wendy N, Wiesend WN, Dumler F, Rooney MT, Li W, **Zhang PL**. Polyclonal Free Light Chain Deposition can be Associated with Acute and Chronic Renal Injury. *Am J Nephrol* 38 (6); 465 - 474, 2013.

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Zhang PL and Hafron JM. Progenitor/stem cells in renal regeneration and mass lesions. *Int Urol Nephrol* DOI 10.1007/s11255-014-0821-z, 2014.

Zeng X, Hossain D, Bostwick DG, Herrera GA, Ballester B, **Zhang PL**. Urinary β 2 Microglobulin is a sensitive indicator for renal tubular injury. *SAJ Case Reports*. Volume 1(1): 1-6, 2014.

Ward ND, Cosner DE, Lamb CA, Li W, Macknis JK, Rooney MT, **Zhang PL**. Diffuse pulmonary hemorrhage / hemosiderosis and neutrophil margination may be features of anti-neutrophil cytoplasmic autoantibody (ANCA) associated microscopic polyangiitis. *Case Reports in Pathology*, Article ID 286030, 5 pages, 2014.

Zeng X, Hossain D, Bostwick DG, Herrera GA, **Zhang PL**. Correlation of urinary β 2-microglobulin with kidney injury molecule-1 staining In-renal biopsy. *J Biomarkers*, Article ID 492838, 7 pages, 2014.

Cosner D, Zeng X, **Zhang PL**. Proximal tubular injury in medullary rays is an early sign of acute tacrolimus nephrotoxicity. *J Transplant*, Article ID 142521, 6 pages, 2015 (PMID: 26199736).

Garg L, Gupta S, Swami A, **Zhang PL** Levamisole/cocaine induced systemic vasculitis and immune complex glomerulonephritis. *Case Reports in Nephrology*. Volume 2015, Article ID 372413, 5 pages.

Kumar T, Fennell T, **Zhang PL**. Eighteen-months may be a reliable storage period for direct immunofluorescent slides of renal biopsies at room temperature. *J Clin Nephrol Ren Care*. 2015, 1:1-5.

Wang Y, Doshi M, Khan S, Li W, **Zhang PL** Utility of Iron Staining in Identifying the Cause of Renal Allograft Dysfunction in Patients with Sickle Cell Disease. *Case Reports in Transplant*. Volume 2015, Article ID 528792, 5 pages (PMID: 26697257).

Thibodeau BJ, Fortier LE, Geddes TJ, Pruetz BL, Ahmed S, Banes-Berceli A, **Zhang PL**, Wilson GD, Hafron JM. Characterization of clear cell renal cell carcinoma by gene expression profiling. *Urologic Oncology: Seminars and Original Investigations* 34(2016)168.e1-168.e9.

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Zhang KJ, Parikh SR, Sigelmann-Danieli N, Hafron JM, Liu JL, Schwartz JD, Amin MB, Qu ZH, **Zhang PL**. Diagnostic Values of a progenitor cell marker CD133 expression in various types of adenocarcinomas. *J Mol Biomark Diagn* 2016, 7:5 DOI: 10.4172/2155-9929.1000299.

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Zhang PL, Kanaan HD. Book Review for Silva's Diagnostic Renal Pathology, Second Edition, Edited by Xin Jin (Joseph) Zhou, Zoltan G. Laszik, Tibor Nadasdy, Vivette D. D'Agati. Cambridge University Press. 2017. 671 pages. ISBN-13: 978-1316613986. ISBN-10: 1316613984. *Am J Surg Pathol* June 2017.

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Toushan M, Atodaria A, Lynch SD, Kanaan HD, Yu L, Amin MB, Tahhan M, **Zhang PL**, Kellerman PS, Swami A. Bilateral Testicular Infarction from IgA Vasculitis of the Spermatic Cords. *Case Reports in Nephrology* Volume 2017, Article ID 9437965, 5 pages. <https://doi.org/10.1155/2017/9437965> (PMID: 29359055).

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