

CURRICULUM VITAE SAMPLE

Xuchen Zhang, MD, PhD
Associate Professor of Pathology
Gastrointestinal/Liver Pathology, Thoracic Pathology
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Education:

M.D. Chengde Medical College 1983/9 – 1988/06
M.S. Beijing University of Chinese Medicine 1991/09 – 1994/06
Ph.D. Peking Union Medical College and Chinese Academy of Medical Science 1997/09 – 2000/02

Career/Academic Appointments:

1988/07-91/08 Anatomic Pathology resident & Pathology Instructor. Department of Pathology, Chengde Medical College, China
1994/07-97/08 Assistant Professor of Pathology (Attending and Lecture), Department of Pathology, Chengde Medical College, China
2000/03-02/06 Postdoctoral Associate. Section of Pulmonary and Critical Care Medicine, Department of Medicine, Yale University School of Medicine. New Haven, CT
2002/07-07/06 Associate Research Scientist, Section of Pulmonary and Critical Care Medicine, Department of Medicine, Yale University School of Medicine, New Haven, CT
2007/07-11/06 Resident, Pathology. Department of Pathology, State University of New York (SUNY) at Downstate Medical Center, College of Medicine. Brooklyn, NY
2010/07-11/06 Chief Resident, Pathology. Department of Pathology, State University of New York (SUNY) at Downstate Medical Center. Brooklyn, NY
2011/07-12/06 Liver/GI Pathology fellow. Department of Pathology, Mount Sinai Medical Center, Mount Sinai School of Medicine. New York, NY
2012/07-16/06 Staff Surgical Pathologist. Laboratory and Pathology Services, VA Connecticut Healthcare System, West Haven, CT
2012/07-present Assistant Professor of Pathology. GI/Liver pathology and Surgical Pathology. Department of Pathology, Yale School of Medicine. New Haven, CT
2017/07-present Associate Professor of Pathology. GI/Liver pathology and Thoracic Pathology. Department of Pathology, Yale School of Medicine. New Haven, CT

Administrative Positions:

2017/10-present Member of Resident Clinical Competency Committee. Department of Pathology, Yale School of Medicine
2017/10-present Office Bearer and webmaster. The GUT-club of Connecticut
2018-2019 Member of Education Committee. Chinese American Pathologists Association (CAPA)
2018-2019 Member of Award Committee. Chinese American Pathologists Association (CAPA)
2017-2018 Department of Pathology 2018 Retreat Committee
2015/05-present GI Pathology fellowship program review committee. Department of Pathology, Yale School of Medicine
2010/06-11/06 Graduate Medical Education Committee, Resident Sub-committee, Downstate Medical Center
2010/06-11/06 Resident Member, Residency Training Committee, Department of Pathology, SUNY Downstate Medical Center
2010/06-11/06 Resident Representative, Department of Pathology, Monthly Faculty meetings. Department of Pathology, SUNY Downstate Medical Center
2010/06-11/06 Resident Member, Residency Training Committee, Department of Pathology, SUNY Downstate Medical Center
2010/06-11/06 Pathology Quality Improvement meetings, University Hospital of Brooklyn, Downstate Medical Center.

Board Certification:

American Board of Pathology, Anatomic and Clinical Pathology, 2011

Professional Honors & Recognition

International/National/Regional

2011: Young Investigator Award, Society of Cardiovascular Pathology
2010: Travel Award, Intersociety Council for Pathology Information
2001: Second Place Winner, New England Respiratory Research Competition & Awards Program

Xuchen Zhang, M.D., Ph.D.

1999: Excellent postgraduate award, Chinese Academy of Medical Sciences & Peking Union Medical College
1997: Third prize. the 3rd National Conference of New Gastroenterology
1996: Second prize. the 2nd National Conference of New Gastroenterology

University

2013: The Averill Liebow Award for Excellence in the Teaching of Pathology Residents, Yale University School of Medicine
2011: Chair's Award for Outstanding Scholarship, SUNY Downstate Medical Center
2011: Outstanding performance. The Residents and Fellows Alumni Society, SUNY Downstate Medical Center
1995: Doctor's Day Award: Outstanding dedication and service. Kings County Hospital Center
1995: Excellent teacher recognition. Chengde Medical College
1991: Excellent teacher recognition. Chengde Medical College

Grant/Clinical Trials History:

Current Grants

Agency: NIH/NCI
I.D.# R01CA206465
Title: "HIV and Aging Mechanisms for Hepatocellular Cancer"
P.I.: Amy Justice, M.D.
Role: Co-Investigator
Percent effort: 5%
Direct costs per year: \$2,099,626
Project period: 04/01/16 – 03/31/21

Agency: Department of Veterans Affairs
I.D.# Merit Grant
Title: "MIF-mediated Mechanisms in Emphysema"
P.I. Patty. J. Lee, M.D.
Role: Co-Investigator
Percent effort: 5%
Total costs for project period: \$650,000
Project period: 10/01/2016 to 09/30/2020

Agency: NIH
Title: "A Novel Druggable Epigenetic Vulnerability Pathway in HCC"
P.I. Narendra Wajapeyee, PhD
Role: Co-Investigator
Percent effort: 1%
Total costs for project period: \$880,801
Project period: 4/01/18-03/31/23

Past Grants

Agency: American Heart Association
I.D.# 0635596T
Title: "Role of HO-1 and STAT3 in Oxidant-Induced Lung Injury"

Xuchen Zhang, M.D., Ph.D.

- 2017: Hot Topics in Esophageal Pathology, Eosinophilic Esophagitis - Is there any evidence that biopsies of endoscopically normal mucosa are cost effective in the diagnosis of EoE?, 14th World OESO Conference. 9/3/2017. Geneva, Switzerland
- 2017: Hepatocellular Carcinoma in cirrhotic and non-cirrhotic livers. Laennec Liver Pathology Society Meeting, 6/22/2017. Bali, Indonesia
- 2017: Liver Neoplasms: Diagnostic Approach for General Surgical pathologists. CAPA online education program. 6/17/2017
- 2016: Liver transplantation -the Role of pathologists. 04/01/2016. University of Florida, FL
- 2015: Pancreatic carcinoma and benign mimics. SUNY College of Medicine at Downstate Med. Ctr., Brooklyn, NY
- 2015: Lymphocytic esophagitis. 13th World OESO Conference. 09/03/2015. Monaco, Monaco
- 2011: Heme Oxygenase-1 protects ischemia-

34. Medical student pathology lab teaching. SUNY Downstate Med. Ctr. 2007-2011

Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated with Yale:

International/National

1. 2018: The International Workshop on HIV and Hepatitis Observational Databases (IWHOD). Park LS, Justice AC, Lo Re V III, Mehta R, Carbonari DM, Torgersen J, D'Addeo K, Mitchell-Richards K, **Zhang X**, Taddei T. Tissue Collection to Examine HIV and HCV Mechanisms for Hepatocellular Carcinoma. March 22–24, 2018 Fuengirola, Spain
2. 2018: USCAP Annual Meeting. Back to the Future: Network Analysis on Autopsy Generated Data Identifies Changes in Disease Patterns over 18 Years. Paulson NJ, Colunga M, **Zhang X**, Costa J, Celli . March 19, 2018. Vancouver, Canada
3. 2018: USCAP Annual Meeting. Perineal Carcinoma Cuniculatum: Histology Review of 38 Cases. Zhang D, Gonzalez RS, Feely M, Lee H, Umrau K, Allende D, Karamchandani D, Zaleski MP, Lin J, Westerhoff M, **Zhang X**, Alpert L, Lai J, Liu X. March 19, 2018. Vancouver, Canada
4. 2018: USCAP Annual Meeting. Immunohistochemical and Molecular Findings in Cholangiolocellular Carcinoma are Similar to Well- Differentiated Intrahepatic Cholangiocarcinoma. Balitzer D, Joseph N, Ferrell L, Jain D, **Zhang X**, Shafizadeh N, Kakar S. March 19, 2018. Vancouver, Canada
5. 2018: USCAP Annual Meeting. Immunopathologic Characterization of Immunotherapy Induced Colitis, with a Comparison to Inflammatory Bowel Disease: Phenotypic Differences May Reflect Drug Mechanisms and Disease Duration. Lo YC, **Zhang X**, Robert ME. March 20, 2018. Vancouver, Canada
6. 2018: USCAP Annual Meeting. Clinical Outcome of Perineal Carcinoma Cuniculatum in a Cohort of 38 Cases. Zhang D, Gonzalez RS, Feely M, Lee H, Umrau K, Allende D, Karamchandani D, Zaleski MP, Lin J, Westerhoff M, **Zhang X**, Alpert L, Lai J, Liu X. March 20, 2018. Vancouver, Canada
7. 2018: USCAP Annual Meeting. Steatohepatic Hepatocellular Carcinoma: background liver disease and histology (1725) Benedict M, Mazer BL, Jain A, Celli C, Taddei T, Cha C, Jain D, **Zhang X**. March 20, 2018. Vancouver, Canada
8. 2018: The annual Conference on Retroviruses and Opportunistic Infections (CROI). Torgersen J, Park L, Taddei T, Carbonari DM, Kallan MJ, Mitchell-Richards K, **Zhang X**, D'Addeo K, Mehta R, Kidwai-Khan F, Justice AC, Lo Re V III. Presentation and outcome of biopsy-proven hepatocellular carcinoma by HIV status. March 4–7, 2018 Boston, Massachusetts
9. 2017: The 68th Annual Meeting of the American Association for the Study of Liver Diseases: The Liver Meeting 2017. Torgersen J, Carbonari DM, Kallan MJ, Mitchell-Richards K, **Zhang X**, D'Addeo KC, Mehta R, Park LS, Kidwai-Khan F, Taddei T, Justice A, Lo Re V 3rd. Clinicopathological characteristics of hepatocellular carcinoma by HIV and chronic HCV status. Oct. 24-27, 2017 Washington, DC, USA
10. 2017: 16th International Conference on Malignancies in HIV/AIDS. Torgersen J, Carbonari DM, Kallan M, Mitchell-Richards K, **Zhang X**, D'Addeo K, Mehta R, Park L, Kidwai-Khan F, Taddei T, Justice AC, Lo Re V III. Advanced stage of hepatocellular carcinoma is less common among HCV infected in Both HIV-infected and uninfected US veterans. October 23-24, 2017 Bethesda, Maryland, USA
11. 2017: CAP Annual Meeting. Shervinrad M, Charifa A, Salem RR, **Zhang X**. Giant duodenal lipoma as a rare cause of intussusception, vomiting, anorexia, and unintentional weight loss mimicking malignancy. Washington, DC Oct. 8-11, 2017 Washington, DC, USA
12. 2017: American Thoracic Society (ATS) Annual International Conference. Korde A, **Zhang X**, Takyar SS. Giant microrna-1 levels determine the type of inflammatory remodeling in chronic rhinosinusitis. May 19-24, 2017 Washington, DC, USA
13. 2017: American Thoracic Society (ATS) Annual International Conference. Chen Z, Oh S, Fang P, Zhang F, Mei Z, Wang Y, Li Q, Homer RJ, **Zhang X**, Zheng Z, Zhu Z. SHP-1 is a critical regulator of epithelial-mesenchymal transition (EMT) in pulmonary fibrosis. May 19-24, Washington, DC, USA
14. 2017: American Thoracic Society (ATS) Annual International Conference. Hwangbo C, Shan P, Zhang Y, **Zhang X**, Lee PJ. Tlr4-mediated epigenetic and senescence mechanisms in COPD. May 19-24, Washington, DC, USA
15. 2017: American Thoracic Society (ATS) Annual International Conference. Shan P, **Zhang X**, Zhang Y, Lee PJ. Endothelial Tlr4 is sufficient against Tlr4 deficiency induced pulmonary emphysema through Stc1. May 19-24, Washington, DC, USA
16. 2017: USCAP Annual Meeting. Vyas M, Celli R, **Zhang X**. Tumor buds and micropapillae in colorectal carcinoma demonstrate similarities in biological behavior and may represent two ends of the same spectrum. March 4-8, 2017. San Antonio, TX USA
17. 2017: USCAP Annual Meeting. Wu X, Celli R, Jain D, **Zhang X**. Gastrointestinal (GI) histopathologic manifestations in patients with common variable immunodeficiency (CVID). March 4-8, 2017. San Antonio, TX USA
18. 2017: USCAP Annual Meeting. Patel N, Celli R, Jain D, **Zhang X**. Histologic Features in Colorectal Sessile-Shaped Malignant Polyps with Nodal Metastasis. March 4-8, 2017. San Antonio, TX USA
19. 2017: USCAP Annual Meeting. Zhou X, Naini B, Garcia-Tsao G, **Zhang X**, Wang HL. PD-1 Inhibitor Nivolumab Induced Liver Injury: Report of 3 Cases with Biopsy Findings. March 4-8, 2017. San Antonio, TX USA
20. 2016: The 67th Annual Meeting of the American Association for the Study of Liver Diseases: The Liver Meeting 2016. Vilarinho S, **Zhang X**, Mistry P. Individual exome analysis in diagnosis and management of idiopathic adult liver disease. Nov. 11-15, 2016. Boston, MA USA

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21. 2016: IDWeek 2016 Annual meeting. Azar MM, Assi A, Ogbuagu O, Perper D, **Zhang X**, Hage C, Wheat LJ and Malinis. Histoplasmosis in a non-endemic area: an often unrecognized disease. OCT 26-30, 2016. New Orleans, LA USA
22. 2016: CAP Annual Meeting. Charifa A, MD; Cho M, **Zhang X**. Cat-scratch disease: a rare cause of hypodense liver mass lesion in a kidney transplant recipient. OCT 15-18, 2016. Las Vegas, NV USA
23. 2016: ASCO Annual Meeting. Gettinger SN, **Zhang X**, Homer R, Possick J, Wurtz A, Goldberg SB, Chiang AC, Herbst RS, Rubinowitz A. Pneumonitis in non-small cell lung cancer (NSCLC) patients treated with programmed death 1 (PD1) axis inhibitors. June 3-7, 2016. Chicago, IL USA
24. 2016: American Roentgen Ray Society Annual Meeting. Jiang F, Cho M, Henderson K, Pollak J, **Zhang X**, Weinreb J. Imaging manifestations of hereditary hemorrhagic telangiectasia in the Liver. April 17-22, 2016. Los Angeles, CA USA
25. 2016: USCAP Annual Meeting. Vyas M, Wong S, **Zhang X**. Intestinal metaplasia of appendiceal endometriosis is not uncommon and may mimic appendiceal mucinous neoplasm. March 12-18, 2016. Seattle, WA USA
26. 2016: USCAP Annual Meeting. Patel N, Vyas M, Cho M, Celli R, Hu B, Yan X, Jain D, **Zhang X**. Clinicopathologic features of tumor infiltrating neutrophils in MSI-H colorectal carcinoma. March 12-18, 2016. Seattle, WA USA
27. 2016: USCAP Annual Meeting. Vyas M, Patel N, Cho M, Wajapeyee N, Jain D, **Zhang X**. Glucose metabolic reprogramming and cell proliferation arrest in micropapillary colorectal carcinomas. March 12-18, 2016. Seattle, WA USA
28. 2016: USCAP Annual Meeting. Abi Raad R, Barbieri AL, **Zhang X**, Harigopal M, Baldassarri R, Levi AW, Fernandez SV, Kowalski D, Adeniran A, Cai G. Can the Ki-67 index evaluated on fine needle aspiration cellblock material reliably grade pancreatic neuroendocrine tumors? March 12-18, 2016. Seattle, WA USA
29. 2015: CAP Annual Meeting. Vyas M, **Zhang X**, Jain D and West BA. Gastric polyps with an unusual serrated morphology in a family with familial adenomatosis. Oct. 4-7, 2015. Nashville, TN USA
30. 2015: American Thoracic Society (ATS) Annual International Conference. Shan P, **Zhang X**, Zhang Y, Lee PJ. Endothelial TLR4 expression confers TLR4 deficiency resistance to hyperoxia induced lung injury. Endothelial TLR4 expression confers TLR4 deficiency resistance to hyperoxia induced lung injury. May 15-20, 2015. Denver, CO, USA
31. 2015: USCAP Annual Meeting. Vyas M, Patel N, Nagarajan A, Wajapeyee N, Jain D and **Zhang X**. Hypoxia induced HIF-1a expression promotes angiogenesis, tumor budding cell survival and cell proliferation arrest in high-grade tumor budding colorectal carcinomas. March 21-27, 2015. Boston, MA USA
32. 2014: American Thoracic Society (ATS) Annual International Conference. **Zhang X**, Shan P, Homer R, Zhang Y, Petrache I, Mannam P, Lee PJ. Mitochondrial fission mediates Cathepsin E-induced pulmonary emphysema. May 16-21, 2014. San Diego, CA, USA
33. 2014: USCAP Annual Meeting. Oin J, **Zhang X**, Gupta R. Increased expression of enhancer of zeste homolog 2 (EZH2) in high grade neuroendocrine tumors in the gastrointestinal tract. Mar. 1-7, 2014. San Diego, CA, USA
34. 2013: The 64th Annual Meeting of the American Association for the Study of Liver Diseases: The Liver Meeting. Zhu H, **Zhang X**, Parikh F, Wu H, Theise ND, Ward SC, Thung SN, Schiano TD, Fiel MI. Matrix Metalloproteinase-9 is highly expressed in fibrosis regression from long-standing alcohol abstinence as compared to recent sobriety in patients undergoing liver transplantation. Nov. 1-5, 2013 Washington, DC
35. 2013: USCAP Annual Meeting. **Zhang X**, Schiano TD, Thung SN, Ward SC, Fiel MI. Aberrant von Willebrand Factor expression of sinusoidal endothelial cells in nodular regenerative hyperplasia and obliterative portal venopathy. Mar. 2-8, 2013. Baltimore, MD, USA
36. 2012: USCAP Annual Meeting. **Zhang X**, Schiano TD, Thung SN, Ward SC, Fiel MI. Aberrant von Willebrand Factor expression of sinusoidal endothelial cells and quiescence of hepatic stellate cells help in the diagnosis of hepatportal sclerosis. Mar. 17-22, 2012. Vancouver, Canada
37. 2011: USCAP Annual Meeting. **Zhang X**, Xie Q, Tan D, Lee PJ, Lacbawan FL, Libien J. Oxidative stress and ERK1/2 MAP Kinase mediate cardiomyocyte injury in transthyretin cardiac amyloidosis. Feb. 26 - Mar. 4, 2011. San Antonio, TX, USA
38. 2010: CAP Annual Meeting. **Zhang X**, Wang Z, Axiotis CA. Testicular hamartomata in complete androgen insensitivity syndrome. Sep. 26-29, 2010. Chicago, IL, USA
39. 2009: Society for Hematopathology/ European Association for Haematopathology Workshop. **Zhang X**, Gottesman SR, Axiotis CA, Pulakhandam P, Gupta R. Plasmablastic lymphoma (PBL) vs. Plasma cell leukemia with plasmablastic features. Cleveland, Ohio, USA
40. 2009: American Society of Clinical Pathology Annual Meeting. **Zhang X**, Gottesman SR, Wang H, Axiotis CA, Pulakhandam P, Gupta R. Plasmablastic lymphoma versus Plasma cell leukemia with plasmablastic features: A diagnostic dilemma. Oct. 28 - Nov. 1, 2009, Chicago, IL, USA
41. 2009: CAP Annual Meeting. **Zhang X**, Ouyang J, Axiotis CA. Bone marrow infiltration of non-Hodgkin lymphoma. Oct. 11-14, 2009. Washington DC, USA
42. 2009: CAP Annual Meeting. Ouyang J, **Zhang X**, Axiotis CA. Langerhans cell histiocytosis: E-cadherin and Cyclin D1. Oct. 11-14, 2009. Washington DC, USA
43. 2008: CAP Annual Meeting. **Zhang X**, Schneller J, Nicastrì AD. Brenner tumor with low malignant potential: the utility of p63. Oct. 11-14, 2008. San Diego, CA, USA
44. 2005: American Thoracic Society (ATS) Annual International Conference. **Zhang X**, Shan P, Otterbein LE, Abraham N, Fu XY, Lee PJ. Heme Oxygenase-1 RNA interference confers susceptibility and endothelial stat3 is required for the protective effect of HO-1 in hyperoxic lung injury. May 20-25, 2005. San Diego, CA, USA
45. 2005: American Thoracic Society (ATS) Annual International Conference. Qureshi ST, **Zhang X**, Aberg E, Medzhitov RM, Lee PJ. Inducible Transgenic expression of activated Toll-like receptor 4 upregulates BclxL and Bcl-2 and is associated with protection against hyperoxic lung injury. May 20-25, 2005. San Diego, CA, USA

46. 2005: American Thoracic Society (ATS) Annual International Conference.

Reviewer

2010-present: Journal of Clinical Pathology, American Journal of Clinical Pathology, Modern Pathology, World Journal of Gastrointestinal Pathophysiology, Journal of Clinical and Translational Hepatology, Expert Opinion on Drug Safety, Drug Design, Development and Therapy, International Journal of Molecular Sciences, World Journal of Gastroenterology, Journal of Cancer Research and Treatment, American Journal of Microbiological Research, Annals of Hepatology, SAGE Open Medicine, World Journal of Hepatology, Clin Med Insights Circ Respir Pulm Med, American Journal of Medical Case Reports, Journal of Clinical Gastroenterology, Journal of Intercultural Ethnopharmacology, American Journal of Cancer Prevention, Journal of COPD, Clinical Cancer Drugs, PLOS ONE, World Journal of Translational Medicine, World Journal of Gastrointestinal Oncology, Expert Review of Gastroenterology & Hepatology, World Journal of Gastrointestinal Endoscopy, Qatar Medical Journal, Journal of Molecular and Genetic Medicine, Sahel Medical Journal, International Journal of Urology, North American Journal of Medicine and Science, Journal of Histochemistry & Cytochemistry, Clinical Medicine Insights: Gastroenterology, Arch Gynecol Obstet, Pathology- Research and Practice, World Journal of Gastrointestinal Pharmacology and Therapeutics, Biomedical Research, World Journal of Gastrointestinal Surgery, Journal of Gastroenterology and Digestive Disease, International Journal of Cancer Research and Development, Journal of Medical Oncology and Therapeutics, BMC Cancer, Internal Journal of Surgical Pathology, Oncotarget, Annals of Pancreatic Disorders and Treatment, European Medical Journal

Bibliography:

Peer-Reviewed Original Research

- Hemmerich A, Shaara M, Burbridge R, Guya CD, McCalla SJ, Cardona DM, **Zhang X**, Lai J, Zhang X. Metastatic Renal Cell Carcinoma as Solitary Subcentimeter Polypoid Gastric Mucosal Lesions: Clinicopathologic Analysis of Five Cases. *Gastroenterol Res*. 2018;11(1):25-30
- Charifa A, **Zhang X**. Morphologic and Immunohistochemical Characteristics of Anorectal Melanoma. *International Journal of Surgical Pathology*. 2018 May 1:1066896918773177. doi: 10.1177/1066896918773177. [Epub ahead of print]
- Azar MM, **Zhang X**, Assi R, Hage C, Wheat LJ, Malinis MF. Clinical and epidemiological characterization of histoplasmosis cases in a nonendemic area, Connecticut, United States. *Med Mycol*. 2017 Dec 8. [Epub ahead of print]
- Vyas M, Wong S and **Zhang X**. Intestinal metaplasia of appendiceal endometriosis is not uncommon and may mimic appendiceal mucinous neoplasm. *Pathol Res Pract*. 2017;213(1):39-44
- Zhang X, Zhu H, Yang X, Adsay VN, zjain D. Post-obstructive cyst formation in pancreas and cystic acinar transformation: Are they same? *Pathol Res Pract*. 2017;213(8):997-1001
- Gong J, Belinsky G, Sagheer U, **Zhang X**, Grippo PJ, Chung C. Pigment Epithelium-derived Factor (PEDF) Blocks Wnt3a Protein-induced Autophagy in Pancreatic Intraepithelial Neoplasms. *J Biol Chem*. 2016;291(42):22074-22085.
- Vyas M, Patel N, Nagarajan A, Wajapeyee N, Jain D and **Zhang X**. Hypoxia induced HIF-1a expression promotes angiogenesis, tumor budding cell survival and cell proliferation arrest in high-grade tumor budding colorectal carcinomas. *Int J Clin Exp pathol*. 2016;9(12):13047-13055
- Takyar S, Zhang Y, Haslip M, Jin L, Shan P, **Zhang X**, Lee PJ. An endothelial TLR4-VEGFR2 pathway mediates lung protection against oxidant-induced injury. *FASEB J*. 2016;30(3):1317-27
- Zhang Y, Shan P, Srivastava A, Jiang G, **Zhang X**, and Lee PJ. An endothelial Hsp70-TLR4 axis limits Nox3 expression and protects against oxidant injury in lungs. *Antioxid Redox Signal*. 2016; 24(17): 991-1012
- Protiva P, Gong J, Sreekumar B, Torres R, **Zhang X**, Belinsky GS, Cornwell M, Crawford SE, Iwakiri Y, Chung C. Pigment Epithelium-Derived Factor (PEDF) Inhibits Wnt/ β -catenin Signaling in the Liver. *Cell Mol Gastroenterol Hepatol*. 2015;1(5):535-549
- Gamm UA, Huang BK, Syed M, **Zhang X**, Bhandari V, Choma MA. Quantifying hyperoxia-mediated damage to mammalian respiratory cilia-driven fluid flow using particle tracking velocimetry-optical coherence tomography. *Journal of Biomedical Optics*. 2015; 20(8):0805051-4
- **Zhang X**, Shan P, Homer R, Zhang Y, Petrache I, Mannam P, Lee PJ. Cathepsin E causes pulmonary emphysema via mitochondrial fission. *Am J Pathol*, 2014; 184(10): 2730-41
- Bao L, Chandra PK, Moroz K, **Zhang X**, Thung SN, Wu T, Dash S. Impaired autophagy response in human hepatocellular carcinoma. *Exp Mol Pathol*. 2013; 96(2):149-154.
- Zhang Y, **Zhang X**, Shan P, Hunt CR, Pandita TK, Lee PJ. A Protective Hsp70-TLR4 Pathway in Lethal Oxidant Lung Injury. *J Immunol*. 2013;191(3):1393-403
- Mannam P, **Zhang X**, Shan P, Zhang Y, Shinn AS, Zhang Y, Lee PJ. Endothelial MKK3 Is a Critical Mediator of Lethal Murine Endotoxemia and Acute Lung Injury. *J Immunol*. 2013;190(3):1264-75.
- **Zhang X**, Gupta R, Nicastrì AD. Bladder adenocarcinoma following gastrocystoplasty. *J Pediatr Urol*. 2010, 6(5):525-527
- Chin BY, Jiang G, Wegiel B, Wang HJ, Macdonald T, **Zhang X**, Gallo D, Cszimadia E, Bach FH, Lee PJ, Otterbein LE.

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- Hypoxia-inducible factor 1{alpha} stabilization by carbon monoxide results in cytoprotective preconditioning. *PNAS*, 2007; 104(12): 5109 – 5114
- Siner JM, Jiang G, Cohen ZI, Shan P, **Zhang X**, Lee CG, Elias JA, and Lee PJ. VEGF-induced Heme Oxygenase-1 confers cytoprotection from lethal hyperoxia in vivo. *FASEB J*, 2007, 21(7):1422-32
 - **Zhang X**, Shan P, Cohn L, Lee PJ. Toll-like receptor 4 deficiency causes pulmonary emphysema. *J Clin Invest*, 2006, 116(11):3050-9
 - Bhandari V, Choo-Wing R, Lee CG, Zhu Z, Nedrelew JH, Chupp GL, **Zhang X**, Matthay MA, Ware LB, Homer RJ, Lee PJ, Geick A, de Fougères AR. Elias JA, Hyperoxia causes angiopoietin-2-mediated acute lung injury and necrotic cell death. *Nat Med*, 2006; 12(11):1286-93
 - **Zhang X**, Shan P, Jiang G, Zhang SM, Otterbein LE, Fu XY, Lee PJ. Endothelial STAT3 is essential for the protective effects of HO-1 during lethal hyperoxic lung injury. *FASEB J*, 2006, 20(12):2156-8
 - Qureshi ST, **Zhang X**, Aberg E, Bousette N, Giaid A, Shan P, Medzhitov RM, Lee PJ. Inducible activation of TLR4 confers resistance to hyperoxia-induced pulmonary apoptosis. *J Immunol*. 2006;176(8):4950-8 (**co-first author**)
 - Cho SJ, Kang MJ, Homer RJ, Kang HR, **Zhang X**, Lee PJ, Elias JA, Lee CG. Role of early growth response-1 (Egr-1) in interleukin-13-induced inflammation and remodeling. *J Biol Chem*. 2006; 281(12):8161-8
 - Lee PJ, **Zhang X**, Shan P, Ma B, Lee CG, Homer RJ, Zhu Z, Rincon M, Mossman BT, Elias JA. ERK1/2 mitogen-Activated protein kinase selectively mediates IL-13-induced lung inflammation and remodeling *in vivo*. *J Clin Invest*, 2006, 116(1):163-73
 - **Zhang X**, Shan P, Qureshi S, Homer R, Medzhitov R, Noble PW, Lee PJ. Cutting edge: TLR4 deficiency confers susceptibility to lethal oxidant lung injury. *J Immunol*. 2005, 175(8):4834-8
 - **Zhang X**, Shan P, Alam J, Fu XY, Lee PJ. Carbon monoxide differentially modulates STAT1 and STAT3 and inhibits apoptosis via a phosphatidylinositol 3-kinase/Akt and p38 kinase-dependent STAT3 pathway during anoxia-reoxygenation injury. *J Biol Chem*. 2005, 280(10):8714-21
 - Scott JR, Gray DK, Bihari A, Badhwar A, **Zhang X**, Shan P, Lee PJ, Chakrabarti S, Harris KA, Potter RF. Heme oxygenase modulates small intestine leukocyte adhesion following hindlimb ischemia/reperfusion by regulating the expression of intercellular adhesion molecule-1. *Crit Care Med*. 2005, 33(11):2563-70
 - **Zhang X**, Shan P, Jiang D, Noble PW, Abraham NG, Kappas A, Lee PJ. Small interfering RNA targeting heme oxygenase-1 enhances ischemia-reperfusion-induced lung apoptosis. *J Biol Chem*. 2004, 279(11):10677-84
 - **Zhang X**, Shan P, Sasidhar M, Chupp GL, Flavell RA, Choi AM, Lee PJ. Reactive oxygen species and extracellular signal-regulated kinase 1/2 mitogen-activated protein kinase mediate hyperoxia-induced cell death in lung epithelium. *Am J Respir Cell Mol Biol*. 2003, 28(3):305-15
 - **Zhang X**, Shan P, Otterbein LE, Alam J, Flavell RA, Davis RJ, Choi AM, Lee PJ. Carbon monoxide inhibition of apoptosis during ischemia-reperfusion lung injury is dependent on the p38 mitogen-activated protein kinase pathway and involves caspase 3. *J Biol Chem*. 2003, 278(2):1248-58
 - **Zhang X**, Shan P, Alam J, Davis RJ, Flavell RA, Lee PJ. Carbon monoxide modulates Fas/Fas ligand, caspases, and Bcl-2 family proteins via the p38alpha mitogen-activated protein kinase pathway during ischemia-reperfusion lung injury. *J Biol Chem*. 2003, 278(24):22061-70
 - Song R, Kubo M, Morse D, Zhou Z, **Zhang X**, Dauber JH, Fabisiak J, Alber SM, Watkins SC, Zuckerbraun BS, Otterbein LE, Ning W, Oury TD, Lee PJ, McCurry KR, Choi AM. Carbon monoxide induces cytoprotection in rat orthotopic lung transplantation via anti-inflammatory and anti-apoptotic effects. *Am J Pathol*, 2003, 163(1):231-42
 - McCarter SD, Scott JR, Lee PJ, **Zhang X**, Choi AM, McLean CA, Badhwar A, Dungey AA, Bihari A, Harris KA, Potter RF. Cotransfection of heme oxygenase-1 prevents the acute inflammation elicited by a second adenovirus. *Gene Ther*. 2003, 10(19):1629-35
 - Yang JX, Lu XF, **Zhang X**, Dai X, Pu YM. Effects of Xiaopi Granules on changes of gastric mucosal CEA and rasP21 in rats with gastric dysplasia. *Chinese J of Medicine and Pharmacology*, 2003, 18 (5):282-285
 - Nie RG, McCarter SD, Harris KA, Lee PJ, **Zhang X**, Bihari A, Gray D, Wunder C, Brock RW, Potter RF. The Role of Endogenous Heme Oxygenase in the Initiation of Liver Injury Following Limb Ischemia/Reperfusion. *J Hepatology*, 2002, 36(5): 624-630
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