Li-Jun Yang, M.D.
Professor

Hematopathology
Department of Pathology, Immunology and Laboratory Medicine
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EDUCATION:

3/1978 - 11/1982	**M.D.** Beijing Medical University, Beijing, China Major: Basic Medicine
9/1983 - 07/1986	**M.S.** Beijing Medical University, Beijing, China Major: Endocrinology

POSTGRADUATE RESEARCH AND CLINICAL TRAINING:

Post-graduate:

01/89 - 01/93 **Postdoctoral fellow,** Department of Biochemistry & Biophysics, University of Pennsylvania School of Medicine, Philadelphia

Residency:

07/96 - 06/98 **Pathology Resident,** Anatomic Pathology, Department of Pathology, Albert Einstein College of Medicine, Bronx, New York 14607

07/98 - 06/00 **Pathology Resident**, Clinical Pathology, Department of Pathology & Laboratory Medicine, University of Pennsylvania School of Medicine, Philadelphia, PA, 19104

Fellowships:

07/00 – 06/01 **Hematopathology Fellow**, Department of Pathology, Immunology, & Laboratory Medicine, University of Florida College of Medicine, Gainesville

FACULTY APPOINTMENTS:

07/13 –Date **Professor**, Department of Pathology, Immunology, & Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida

07/06 – 06/13 **Associate Professor (Tenure)**, Department of Pathology, Immunology, & Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida

07/01 – 06/06 **Assistant Professor**, Department of Pathology, Immunology, & Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida

07/96 - 06/99 **Adjunct Assistant Professor**, Department of Biochemistry & Biophysics, University of Pennsylvania School of Medicine, Philadelphia, PA

01/93 - 06/96 **Research Assistant Professor**, Department of Biochemistry & Biophysics, University of Pennsylvania School of Medicine, Philadelphia

09/86 - 10/88 **Instructor,** Department of Cell Biology, Beijing Medical University, Beijing, China

LICENSURE AND CERTIFICATION:

1995	Diplomate, ECFMG
1996	Diplomate, National Board of Medical Examination
1997	Registered Physician, Pennsylvania
2000	Diplomate, American Board of Anatomic and Clinical Pathology
2000	Registered Physician, Florida
2001	Diplomate, American Board of Pathology in Hematology

HONORS AND AWARDS:

2006-12 NIH Peer Review Study sections, JDRF, Multiple myeloma, leukemia research foundation, Lupus Research Institute, National Science Foundation in Singapore and China: ad hoc reviewer

2009-	Honorable professorship in Tianjin Science and Technology University
2009-	Honorable professorship in Shantong University
2009	Exemplary Teacher Award, University of Florida
2003-08	NIH: Clinical scientist mentored research award (K08),
1994-97	American Diabetes Association Research Career Development Award
1992-93	NIH Postdoctoral Research Fellowship
1986-88	Youth Scientific Award, Department of Public Health of China
1983-86	University Scholarship, Beijing Medical University
1978-82	Outstanding Student Award, Beijing Medical University

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

2003 -	American Diabetes Association
2003-	Society for Hematopathology
2003 -	International Society for Stem Cell Research
2001 -	American Society of Hematology
1996 -	American Society of Clinical Pathologists
1996 -	College of American Pathologists
1996 - 98	New York Pathologist Club
1998 - 00	Philadelphia Pathologist Club
1992 -	American Society for Biochemistry & Molecular Biology
1993 - 98	American Diabetes Association
1994 - 97	American Association for Advanced Science
1993 - 97	New York Academy of Science

PUBLICATIONS:

1. Zhang Y, Li R, Meng Y, Li S, Donelan W, Zhao Y, Qi L, Zhang M, Wang X, Cui T*, **Yang LJ***, Tang D* (2014). Irisin Stimulates Browning of White Adipocytes Through Mitogen-Activated Protein Kinase p38 MAP Kinase and ERK MAP Kinase Signaling. *Diabetes* 2014 Feb;63(2):514-25. doi: 10.2337/db13-1106. Epub 2013 October. *Yang, LJ –co-corresponding author

2. Zhuang H, Han S, Xu Y, Wang H, Li Y, **Yang LJ***, and Reeves WH* (2014). TLR7/TNFα-mediated bone marrow damage in systemic lupus erythematosus. *Arthritis & Rheumatism* 2014 Jan;66(1):140-51, * co-corresponding authors
3. George Vertes E, Pharm J, Houston C, Brian G, Al-Quran S, Dong H, Wang H, Reeves WH and **Yang LJ (2013).** Breast implant-associated ALK-negative anaplastic large cell lymphoma: Case report and discussion of possible pathogenesis. *International Journal of Clinical Experimental Pathology* 2013;6(8):1631-1642
4. Wang Q, Wang H, Li SW, Yu Sun, Wang X, Donelan W, Chang LJ, Jin S, Terada N, Reeves WH, and **Yang LJ (2013).** Reprogrammed intermediate state of hepatic cells is more susceptible to pancreatic beta cell differentiation. *Journal of Cell Science*. 2013 June 7. 126:3638–3648
5. Han S, Donelan W, Wang H, Reeves W and **Yang LJ (2013**). The Novel Autoantigens in Type 1 Diabetes. Review. *American Journal of Translational Research* 2013 May 24;5(4):379-92
6. Jung HM, Wang H, Rushi S, Patel, BL. Phillips WC, Reinhold DM, Chang LJ, **Yang LJ**, and Chan E (2013). miR-375 regulation of CIP2A controls oral cancer cell proliferation and survival. *Molecular Biology of the Cell*. 2013 Jun;24(11):1638-48. PMCID: PMC3667718
7. Donelan W, Wang H, Li SW, Pittman D, Li Y, Han S, Sun Y, Carter C, Atkinson MA, Reeves WH, Winter WE, and **Yang LJ (2013).** Novel detection of pancreatic and duodenal homeobox 1 autoantibodies (PAA) in human sera using luciferase immunoprecipitation systems (LIPS) assay *International Journal of Clinical Experimental Pathology* 2013;6(6):1202-1210
8. Weinstein JS, Delano MJ, Kelly-Scumpia KM, DC Nacionales DC, Li Y, Lee PY, Scumpia PO, **Yang LJ**, Sobel E, Moldawer LL, and Reeves WH (2013). Maintenance of anti-Sm/RNP autoantibody production by plasma cells residing in ectopic lymphoid tissue and bone marrow memory B cells*. Journal of Immunology*, NIHMSID 448931, 2013 Apr 15;190(8):3916-27.
9. Bichsel C, Neeld D, Hamazaki T, Chang LJ, **Yang LJ**, Terada N, and Jin S (2013). Direct Reprogramming of Fibroblasts to Myocytes via Bacterial Injection of MyoD Protein. *Cellular Reprogramming*, Vol. 15, No. 2, April 2013: 117-125
10. Tang DQ, Lu S, Koya V, Qian K, Sun Y, Wang Q, Wang H, Li SW, Zhang C, Hansen B, Atkinson M, Phillips IM, and **Yang LJ (2013)**. Genetically reprogrammed, liver-derived insulin-producing cells are glucose-responsive, but susceptible to autoimmune destruction in settings of type 1 diabetes, *American Journal of Translational Research March 28 online,* 5(2):184-199
11. Nelson P, Tran TDN, Zhang H, Zolochevska O, Figueiredo M, Feng JM, Gutierrez DL, Xiao R, Yao S, Penn A, **Yang LJ,** and Cheng H (2013). "Transient Receptor Potential Melastatin 4 channel controls calcium signals and dental follicle stem cell differentiation". *Stem Cells* Jan;31(1):167-77.
12. Patel ES, Okada S, Hachey K, **Yang LJ**, Durum SK, Moreb JS, and Chang LJ (2012). Regulation of *in vitro* human T cell development through interleukin-7 deprivation and anti-CD3 stimulation. *BMC Immunology* **13**:46 doi10.1186/1471-2172-13-46
13. Tang DQ, Wang Q,Burkhardt BR, Litherland SA, Atkinson MA, and **Yang LJ (2012).** In vitro generation of functional insulin-producing cells from human bone marrow-derived stem cells, but long-term culture running risk of malignant transformation. *American Journal of Stem Cell* 1(2):114-127 PMCID102568846
14. Xu Y, Lee PY, Li Y, Liu C, Zhuang H, Han S, Nacionales DC, Weinstein J, Mathews CE, Moldawer LL, Li SW, Satoh M, **Yang LJ**, Reeves WH (2012). Pleiotropic IFN-Dependent

and -Independent Effects of IRF5 on the Pathogenesis of Experimental Lupus. *Journal of Immunology* Apr 15;188(8):4113-21. PMCID 3580234

15. Bichsel C, Neeld DK, Hamazaks T, Wu D, Chang LJ, **Yang LJ**, Terada N, Jin SG (2011). Bacterial Delivery of Nuclear Proteins into Pluripotent and Differentiated Cells. *PLoS ONE* 6(1): e16465. doi:10.1371/journal.pone.0016465
16. Han SH, Wang Y**,** Wang E, Patel E**,** Okada S**, Yang LJ,** Moreb JS and Chang LJ (2010). Ex vivo development, expansion and in vivo analysis of a novel lineage of dendritic cells from hematopoietic stem cells. *Journal of Immune Based Therapies and Vaccines*. 2010 Nov 24;8:8.
17. Li SW, Sun Y, Donelan W, Yu H, Scian J, Tang DQ, and **Yang LJ** (2010). Expression, Purification, and Characterization of Recombinant Human Pancreatic Duodenal Homeobox-1 Protein in Pichia Pastoris*. Protein Expression and Purification.* 2010 Aug; 72(2):157-61.
18. Li SW, Koya B, Li Y, Donelan W,, Lin P, Reeves WH, **Yang LJ** (2010). Pancreatic duodenal homeobox 1 protein is a novel beta-cell-specific autoantigen for type I diabetes. *Laboratory Investigation.* 90(1):31-9.
19. Donelan W, Koya V, Li SW, and **Yang LJ** (2010) Distinct regulation of HNF1alpha by NKx6.1 in pancreatic beta cells. *Journal of Biological Chemistry* 2010, 285(16):12181-9.
20. Lin G, Wang G, Liu G, **Yang LJ**, Chang L-J, Lue TF, and Lin C-S (2009). Treatment of Type 1 Diabetes with Adipose Tissue-Derived Stem Cells Expressing Pancreatic Duodenal Homeobox 1. *Stem Cells and Development* Dec;18(10):1399-406
21. Pate E, Wang B, Lien L, Wang Y, **Yang LJ**, Moreb JS, and Chang LJ (2009). Diverse T cell differentiation potentials of human fetal thymus, fetal liver, cord blood and adult bone marrow CD34 cells on lentiviral Delta-like 1-modified mouse stromal cells. *Immunology.* 2009 Sep; 128(1 Suppl):e497-505.
22. **Yang LJ** (2008). Commentary. Big Mac Attack: does it play a direct role for monocytes/macrophages in type 1 diabetes? *Diabetes.* 2008 Nov;57(11):2922-3
23. Koya V, Lu S, Sun YP, Purich DL, Atkinson MA, Li SW, **Yang LJ.** Reversal of streptozotocin-induced diabetes in mice by cellular transduction with recombinant pancreatic transcription factor pancreatic duodenal homeobox-1: a novel protein transduction domain-based therapy. *Diabetes.* 2008 Mar; 57(3):757-69.
24. Yang F, Li Y, Braylan R, Hunger SP, **Yang LJ.** Pediatric T-cell post-transplant lymphoproliferative disorder after solid organ transplantation. *Pediatric Blood Cancer.* 2008 Feb;50(2):415-8.
25. Han S, Wang B, Cotter MJ, **Yang LJ,** Zucali J, Moreb JS, Chang LJ. Overcoming immune tolerance against multiple myeloma with lentiviral calnexin-engineered dendritic cells. *Molecular Therapy.* 2008 Feb;16(2):269-79. Epub 2007 Dec 11.
26. Al-Quran SZ, Yang LJ, Magill JM, Braylan RC, Douglas-Nikitin VK. Assessment of bone marrow plasma cell infiltrates in multiple myeloma: the added value of CD138 immunohistochemistry. Hum Pathol. 2007 Dec;38(12):1779-87. Epub 2007 Aug 2
27. **Yang LJ (2007)**. Commentary. "Partners in transdifferentiation" *Laboratory Investigation*
28. **Yang LJ** (2006). Liver Stem Cells Derived Surrogates for Treatment of Type 1 Diabetes. *Autoimmunity Reviews*. July;5(6):409-413
29. Tang DQ, Cao LZ, Li SW, Farag C, Chang LJ & **Yang LJ.** (2006). Role of Pax4 in Pdx1-VP16 mediated liver-to-endocrine pancreas transdifferentiation. *Laboratory Investigation.* Aug;86(8):829-41
30. Tang DQ, Lu S, Sun YP, Rodriguez E, Chou W, Yang C, Cao LZ, Chang LJ, & **Yang LJ** (2006). Reprogramming liver-stem WB cells into functional insulin-producing cells by persistent expression of Pdx1- and Pdx1-VP16 mediated by lentiviral vectors. *Laboratory Investigation*. Jan;86(1):83-93

31. Xiong, C, Xie CQ, Zhang, L, Zhang, J, Xu, K, Fu, M, Thompson, WE, **Yang LJ**, & Chen, YE. (2005). Derivation of adipocytes from human embryonic stem cells. *Stem Cell and Development.* Dec;14(6):671-675
32. Chen X, Tang DQ, Xie CQ, Zhang L, Xu, KF, Thompson WE, Chou W, Chang LJ [#], Yang **LJ**[#], and Chen YE [#] (2005). Stable, high-efficiency expression of transgenes and small Interfering RNAs in human embryonic stem cells using lentiviral *vectors. Stem Cells and Development in press* [#] *shared senior authorship.*
33. Cao LZ, Tang DQ, Li SW, Horb MA and **Yang LJ.** (2004). External factors are necessary for Pdx-1 transfected hepatic cells to transdifferentiate into functional pancreatic endocrine insulin-producing cells. *Diabetes* 53 (12): 3168-78.
34. Yuan C and **Yang LJ**. (2004). Unusual loss of CD103 in a subset of cells in a case of Hairy Cell Leukemia. *Clinical Cases in Flow Cytometry*.
35. Tang DQ, Cao LZ, Burkhardt BR, Xia CQ, Litherland SA, Atkinson MA, and **Yang LJ**. (2004). *In Vivo* and *In Vitro* Characterization of Insulin-Producing Cells Obtained from Murine Bone Marrow. *Diabetes.* 53(7):1721-32
36. Yuan C, DouglasV, Luchetta G, Ahrens K, Braylan R and **Yang LJ.** (2004). Drag5-based cell cycle analysis of cell subpopulations discriminated by surface antigens and light scatter in hematopoietic tissue. *Flow Cytometry*, 58B:47-52
37. Li SW, Tang DQ, Ahrens KP, She J.X, Braylan RC, **Yang LJ.** (2003) All-trans-retinoic acid induces CD52 expression in acute promyelocytic leukemia. *Blood.* 101(5):1977-80.
38. **Yang LJ***, Zhao HS, Li SW, and She, JX (2003). Gene expression patterns of retinoid acid-induced granulocytic differentiation of acute promyelocytic leukemic cells. *Journal of Molecular Diagnostics.* 5(4):212-221. * *First and corresponding author*.
39. **Yang LJ***, Li SW, Hatch H, Ahrens K, Petersen BE & Peck AB (2002). In vitro trans-differentiation of adult hepatic stem cells into pancreatic endocrine hormone-producing cells. *Proceedings of National Academy Science* 99: 8078-8083 * *First and corresponding author*.
40. Maloney J, **Yang LJ**, Li QY, and Williamson JR. (1999) Activation of ERK by calcium store depletion in rat liver epithelial cells. *American Journal of Physiology,* 276 (Cell Physiology 45): C221-C230
41. **Yang LJ**, Guo Y, Maloney JA, & Williamson JR. (1999). Angiotensin II regulation of extracellular signal-regulated protein kinase in rat liver epithelial WB cells. *Biochemical Pharmacology,* Vol. 57, pp.425-432
42. Guo YL, Kang B, **Yang LJ** and Williamson JR. (1999) Tumor necrosis factor- alpha and ceramide induce cell death through different mechanisms in rat mesangial cells. *American Journal of Physiology,* 276 (Renal Physiology 45): F390-F397
43. Maloney JA, **Yang LJ**, Williamson JR. (1998) Differential translocation of protein kinase C isozymes by phorbol ester, EGF and angiotensin II in rat liver WB cells. *American Journal of Physiology,* 274. C947 – 956
44. Pei ZD, Maloney J, **Yang LJ**, and Williamson JR. (1997). A new function for phospholipase C-r1: Coupling to the adaptor protein GRB2. *Archives of Biochemistry and Biophysics* 345, 1. 103-110
45. Pei ZD, **Yang LJ**, and Williamson JR. (1996) Phospholipase C-r1 binds to actin-cytoskeleton via its C-terminal SH2 domain *in vitro*. *Biochemical and Biophysical Research Communication*, 228, 802-806
46. **Yang LJ,** Rhee SG, and Williamson JR. (1994). Epidermal growth factor- induced activation and translocation of phospholipase C-r to the cytoskeleton in rat hepatocytes. *Journal of Biological Chemistry* 269: 7156-7162

47. Baffy G, **Yang LJ,** Manning DR. and Williamson JR. (1994) G-protein coupling to the thrombin receptors in Chinese hamster lung fibroblasts. *Journal of Biological Chemistry* 269:8483-8487
48. Baffy G, **Yang LJ**, Wolf BA, and Williamson JR. (1993) G-protein specificity in signaling pathways that mobilize calcium in the insulin-secreting - TC3 cells. *Diabetes*. 42: 1878-1882
49. **Yang LJ**, Camoratto AM, Baffy G, Raj S, Manning DR, and Williamson JR. (1993) Epidermal growth factor-mediated signaling of Gi-protein to activation of phospholipases in cultured rat hepatocytes. *Journal of Biological Chemistry* 268:3739-3746
50. Baffy G, **Yang LJ**, Michalopoulos GK and Williamson JR. (1992) Hepatocytes growth factor induces calcium mobilization and inositol phosphate production in rat hepatocytes. *Journal of Cellular Physiology* 153: 332-339
51. Hansen, CA, **Yang LJ**, and Williamson JR. (1991). Mechanisms of receptor- mediated Ca2+ signaling in rat hepatocytes. *Journal of Biological Chemistry*. 266:18573-18579
52. **Yang LJ**, Baffy G, Rhee SG, Manning D, Hansen CA and Williamson JR. (1991). Pertussis toxin-sensitive Gi-protein involvement in epidermal growth factor-induced activation of phospholipase C-r in rat hepatocytes. *Journal of Biological Chemistry* 266:22451-22458

Book Chapters:

- Williamson, JR and **Yang LJ.** (1991) Mechanism of receptor-mediated Ca2+ entry into rat hepatocytes. In: Regulation of Hepatic Function, Munksgard Int. Publ., vol. 30: 276-289.
- **Yang LJ**, Baffy G., Rhee SG and Williamson JR (1991) Epidermal growth factor mediated signal transduction in rat hepatocytes. In: Biological Signal Transduction (K.Wirtz, Editor) Springer Verlag, New York, pp 511-525.
- Peck AB, Petersen B, Ramiya V and **Yang LJ** (2006). The many faces of adult stem cell-derived, in vitro-generated insulin-producing islet-like cells for the treatment of type 1 diabetes. In: Progress in Stem Cell Research Ed: Markino M. Nova Science Publishers, Inc., NY, 2006
- Zhuang H, M Kosboth, J Sipos, M Satoh, **Yang LJ,** and WH Reeves (2009). Autoimmunity. Chapter 6, *In* Introduction to Clinical Immunology, J Zabriskie, Ed., Cambridge University Press, pp. 91-118 (2009).
- Reeves WH, Y Xu, H Zhuang, Y Li, and **Yang LJ** (2011). Chapter 13: "Origins of antinuclear antibodies". In text book of "Systemic lupus erythematosus (SLE), 5th Edition, RG Lahita, G Tsokos, J Buyon, and T Koike, Editors, Academic Press, London, pp. 213-233 (2011).
- Suhong Han, William Donelan, Westley Reeves, and **Li-Jun Yang** (2011), Chapter 19 "Autoantigen-Specific Immunotherapy" in "Type 1 Diabetes / Book 1", ISBN 978-953-307-362-0, InTech -Open Access Publisher, pp. 425-452 (2011)