

# CURRICULUM VITAE

**Ying Li, M.D., Ph. D.**

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## PERSONAL DATA:

**Associate professor and Director of Hematopathology  
Dept. of Pathology, Immunology and Laboratory Medicine,  
University of Florida College of Medicine.**

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## EDUCATION:

### Bachelor of Medicine

March, 1978 - Jan., 1983  
Henan Medical University, Henan Province, PRC

### Master of Science

Mar., 1983 to Feb., 1986  
Henan Medical University, Henan Province, PRC

### Ph.D. in Pharmacology and Physiology

Sep., 1986 to Mar., 1992  
University of California, San Diego.

## POST-GRADUATE TRAINING AND EMPLOYMENT:

Apr., 1992 to Jun., 1996 Brigham and Women's Hospital, Harvard Medical School. Boston, MA 02115  
Research Fellow at the Department of Medicine

Jul., 1996 to Jun., 2000 Dartmouth-Hitchcock Medical Center, Lebanon, NH 03756  
Resident of Anatomic and Clinical pathology at the Department of Pathology

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| Jul., 2000 to Jun., 2002   | <b><u>University of Washington Medical Center</u></b> , Seattle, WA 98195<br>Hematopathology Fellow at the Department of Laboratory Medicine   |
| Jul., 2002 to August 2007  | <b><u>University of Florida College of Medicine</u></b> , Gainesville, FL 32608<br>Assistant Professor, the Department of Pathology<br>Attending Hematopathologist, the Department of Pathology.   |
| Aug, 2007 to August, 2008  | <b><u>University of Florida College of Medicine</u></b> , Gainesville, FL 32608.<br>Assistant Professor, the Department of Pathology<br>Associate Director of Hematopathology Pathology<br>Medical Director of the Shands Hematopathology Laboratory   |
| August, 2008 to June, 2009 | <b><u>University of Florida College of Medicine</u></b> , Gainesville, FL 32608.<br>Assistant Professor, the Department of Pathology<br>Director of Hematopathology Pathology<br>Medical Director of the Shands Hematopathology Laboratory<br>Director of Hematopathology Fellowship Program |
| July, 2009 to present      | <b><u>University of Florida College of Medicine</u></b> , Gainesville, FL 32608.<br>Associate Professor, the Department of Pathology<br>Director of Hematopathology Pathology<br>Medical Director of the Shands Hematopathology Laboratory<br>Director of Hematopathology Fellowship Program |

**MEDICAL LICENSURE AND CERTIFICATION:**

Medical doctor license in the State of Florida (1/2004 to present)  
 Medical doctor license in the State of Washington (1/2002 to present)  
 ECFMG NO 0-526-203-5, issued on 11/1/1995, valid indefinitely.  
 Board Certified by American Board of Pathology in Hematology (Sep. 2002)  
 Board Certified by American Board of Pathology in anatomic pathology and clinical pathology (Sep. 2000).

**NATIONAL AFFILIATIONS:**

Member of the College of American Pathologists.  
 Member of the American Society of Clinical Pathologist.  
 Member of the United State and Canadian Academy Pathology.

**AWARDS AND HONORS:**

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| 1994-1996 | Bugher Fellowship awarded by American Heart Association/Bugher Foundation |
| 1986-1990 | Fellowship awarded by K. C. Wong Education Foundation, Hong Kong.         |

**GRANT SUPPORT:**

**Grant Support:** PI: Ying Li, NIH. RO1, "**Aptamer-based technology for molecular analysis of leukemia**"  
 2/2008 -2/2012. Name of Funding Agency: NIH. RO1  
 Title of Grant: Aptamer-based technology for molecular analysis of leukemia  
 Role of Nominee: Principal Investigator  
 Effective Date: 5/1/2008 -2/28/2013

My research work is to develop a panel of aptamers as novel molecular probes for molecular profiling of leukemia cells. Using cell-SELEX (Systematic Evolution of Ligands by Exponential enrichment), a group of cell-specific aptamers can be selected and be used to profile tumor cells without even knowing their target molecules. In addition, aptamer probes can be used as tools for identifying new biomarkers expressed by tumor cells. In collaboration with Dr. Weihong Tan in the Department of Chemistry, we began our studies with well-characterized leukemia cell lines to develop the cell-based SELEX methodologies and then used the selected aptamer probes to recognize patients' leukemic cells. In order to translate the basic research studies into clinical practice of leukemia diagnosis, we are using patients' leukemia specimens to develop single stranded DNA aptamer probes that can specifically recognize the patients' leukemia cells. With flow cytometry and tools of imaging analysis, cell-specific aptamers can be valuable probes for molecular diagnosis and classification of tumors, as well as for the evaluation of the effects of drugs on cancer cells, which will subsequently improve the diagnosis and therapy of cancers.

**PUBLICATIONS:**

1. Garner R, **Li Y**, Gray B, Zori R, Braylan R, Wall J, Hunger SP. Long-term disease control of refractory anaplastic large cell lymphoma with vinblastine. **J Pediatr Hematol Oncol**. 2009 Feb;31(2):145-7.
2. Sefah K, Tang ZW, Shangguan DH, Chen H, Lopez-Colon D, **Li Y**, Parekh P, Martin J, Meng L, Phillips JA, Kim YM, Tan WH. Molecular recognition of acute myeloid leukemia using aptamers. **Leukemia**. 2009 Feb;23(2):235-44. Epub 2009 Jan 8.
3. Grier DD, Al-Quran SZ, Gray B, **Li Y**, Braylan R. Intracranial myeloid sarcoma. **Br J Haematol**. 2008 May 8. [Epub ahead of print]
4. Allan RW, Al-Quran SZ, Li Y, Braylan RC "Chronic lymphoproliferative disorders" In: **Laboratory Hematology Practice**, Drs Kottke-Marchant K, Davis BH ed. 2008.
5. Shangguan D, Cao Z, Meng L, Mallikaratchy P, Sefah K, Wang H, **Li Y**, Tan W. Cell-specific aptamer probes for membrane protein elucidation in cancer cells. **J Proteome Res**. 2008 May; 7(5):2133-9. Epub 2008 Mar 26.
6. Shangguan D, Meng L, Cao ZC, Xiao Z, Fang X, **Li Y**, Cardona D, Witek RP, Liu C, Tan W. Identification of liver cancer-specific aptamers using whole live cells. **Anal Chem**. 2008 Feb 1; 80(3):721-8. Epub 2008 Jan 5.
7. Fan Yang, **Ying Li**, Raul Braylan, Stephen P. Hunger, and Li-Jun Yang. Pediatric T-Cell Post-Transplant Lymphoproliferative Disorder after Solid Organ Transplantation. **Pediatric Blood & Cancer**. **Pediatr Blood Cancer**. 2008 Feb;50(2):415-8.
8. Tang Z, Shangguan D, Wang K, Shi H, Sefah K, Mallikratchy P, Chen HW, **Li Y**, Tan W. Selection of Aptamers for Molecular Recognition and Characterization of Cancer Cells. **Anal Chem**. 2007 Jul 1; 79(13):4900-4907. Epub 2007 May 27.
9. Shangguan D, Cao ZC, **Li Y**, Tan W. Aptamers evolved from cultured cancer cells reveal molecular differences of cancer cells in patient samples. **Clin. Chem**. 2007 Jun; 53(6):1153-5. Epub 2007 Apr 26.
10. **Ying Li**, MD, Raul C. Braylan, MD, and Samer Z. Al-Quran, MD. Flow-Cytometric Assessment of T-Cell Clonality in Clinical Specimens. **LAB MEDICINE** 38 (8):477-482, August 2007
11. Walsh KJ, Al-Quran SZ, **Li Y**, Braylan RC, Lynch JW Jr. Discordant Expression of CD20 by Flow Cytometry and Immunohistochemistry in a Patient Responding to Rituximab: An Unusual Mechanism. **Clin. Lymphoma Myeloma**. 7(4):319-22. 2007

12. Shangguan D, **Li Y**, Tang Z, Cao ZC, Chen HW, Mallikaratchy P, Sefah K, Yang CJ, Tan W. Aptamers evolved from live cells as effective molecular probes for cancer study. **Proc. Natl. Acad. Sci. U S A.** 103(32):11838-43, 2006
13. S J. Kussick, J. Fromm, A. Rossini, **Y. Li**, A. Chang, T. H. Norwood and BL. Wood. "Four-color flow cytometry shows strong concordance with bone marrow morphology and cytogenetics in the workup of myelodysplasia" **American J. of Clinical Pathology** 124(2):170-81. 2005
14. Weihong Tan, Zehui, Cao, Dihua Shangguan, **Ying Li**, Zhiwen Tang, Prabodhika Mallikratchy and Hui Chen. Cancer cell proteomics using molecular aptamers, in **Drug Discovery Handbook**, Ed. Shayne Cox Gad, Wiley-Interscience, 2005, p. 73-86.
15. Li Tan, **Ying Li**, Kemin Wang, Leonid Moroz, Timothy Drake, Alina Munteanu, Chaoyong Yang, Karen Martinez and Weihong Tan, "Molecular Beacons for Bioanalytical Applications". **The Analyst**, , 130: 1002-1005, 2005
16. Chang CC, Lorek J, Sabath DE, Li Y, Chitambar CR, Logan B, Kampalath B, Cleveland RP. "Expression of MUM1/IRF4 Correlates with Clinical Outcome in Patients with B-cell Chronic Lymphocytic Leukemia". **Blood.** 100(13):4671-5, 2002.
17. Rosen WJ, **Li Y**. "Sudoriferous cyst of the orbit." *Ophthal Plast Reconstr Surg.* 17(1):73-5, 2001.
18. K. J. Yeo; C. A. Storm; **Y. Li**; J. E. Jayne; T. Brough; K. S. Quinn-Hall and T. F. Fitzmaurice. "Performance of the enhanced Abbott AxSYM cardiac troponin I reagent in patients with heterophilic antibodies." **Clinica Chimica Acta**, vol. 292, pp13-23, 2000.
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20. M. P. Panchenko, K. Saxena, **Y. Li**, S. Charneski, P. Sternweis, T. F. Smith, A. G. Gilman, T. Kozasa, and E. J. Neer, "The sides of the G protein beta 1 and gamma 2 subunit propeller structure contain regions for phospholipase C beta 2 activation," **Journal of Biological Chemistry**, vol. 273, pp.28298, 1998.
21. **Y. Li**, S. Charneski, T. F. Smith, E. J. Neer, **A. G. Gilman**, and T. Kozasa, "Mapping a surface of G protein beta subunit: overlap of sites for PLC beta2 and PLC beta3 activation," **Journal of Biological Chemistry**, vol. 273, pp. 16248, 1998.
22. **Y. Li**, U. Mende, C. Lewis, and E. J. Neer, "Maintenance of cellular levels of G-proteins: different efficiencies of alpha s and alpha o synthesis in GH3 cells," **Biochemical Journal**, vol. 318, pp. 1071-7, 1996.
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24. S. Camp, S. Bon, **Y. Li**, D. K. Getman, A. G. Engel, J. Massoulie, and P. Taylor, "Patients with congenital myasthenia associated with end-plate acetylcholinesterase deficiency show normal sequence, mRNA splicing, and assembly of catalytic subunits," **Journal of Clinical Investigation**, vol. 95, pp. 333-40, 1995.
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26. Z. Radic, R. Duran, D. C. Vellom, **Y. Li**, C. Cervenansky, and P. Taylor, "Site of fasciculin interaction with acetylcholinesterase," **Journal of Biological Chemistry**, vol. 269, pp. 11233-9, 1994
27. **Y. Li**, S. Camp, and P. Taylor, "Tissue-specific expression and alternative mRNA processing of the mammalian acetylcholinesterase gene," **Journal of Biological Chemistry**, vol. 268, pp. 5790-7, 1993.
28. D. C. Vellom, Z. Radic, **Y. Li**, N. A. Pickering, S. Camp, and P. Taylor, "Amino acid residues controlling acetylcholinesterase and butyrylcholinesterase specificity," **Biochemistry**, vol. 32, pp. 12-7, 1993.
29. P. Taylor, **Y. Li**, S. Camp, T. L. Rachinsky, T. Ekstrom, D. Getman, M. E. Fuentes, D. C. Vellom, and Z. Radic, "Structure and regulation of expression of the acetylcholinesterase gene," **Chemico-Biological Interactions**, vol. 87, pp. 199-207, 1993.
30. **Y. Li**, S. Camp, T. L. Rachinsky, C. Bongiorno, and P. Taylor, "Promoter elements and transcriptional control of the mouse acetylcholinesterase gene," **Journal of Biological Chemistry**, vol. 268, pp. 3563-72, 1993.

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32. T. L. Rachinsky, S. Camp, **Y. Li**, T. J. Ekstrom, M. Newton, and P. Taylor, "Molecular cloning of mouse acetylcholinesterase: tissue distribution of alternatively spliced mRNA species," *Neuron*, vol. 5, pp. 317-27, 1990.
33. S. N. Abramson, **Y. Li**, P. Culver, and P. Taylor, "An analog of lophotoxin reacts covalently with Tyr190 in the alpha-subunit of the nicotinic acetylcholine receptor," *Journal of Biological Chemistry*, vol. 264, pp. 12666-72, 1989.
34. S. N. Abramson, P. Culver, T. Kline, **Y. Li**, P. Guest, L. Gutman, and P. Taylor, "Lophotoxin and related coral toxins covalently label the alpha-subunit of the nicotinic acetylcholine receptor," *Journal of Biological Chemistry*, vol. 263, pp. 18568-73, 1988.