**Lan-Hsin (Jessica) Liu**

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Experienced histotechnologist with many years experience, having worked and trained under professional experimental pathologists at the University of Louisville then spent 4 years in a fast-paced work environment at Baptist Hospital. Seeking to obtain the histotechnologist position where my skills in Immunohistochemistry and histology would benefit the continued success of your organization.

**QUALIFICATIONS SUMMARY**

* Over ten years experience preparing and analyzing histological tissue samples with exceptional troubleshooting and problem-solving skills. Initially trained under experimental pathologist Dr. Michael Tseng at University of Louisville.
* Collecting and organizing patients’ information.
* Extensive knowledge in regards to histotechnology/immunohistochemistry(IHC), tissue culture and its applications. Generating and standardizing protocol for new antibodies.
* Excellent ability to prepare histological slides for paraffin, cryo, and plastic sections.
* Analyzing tissues using fluorescence, light, and electron microscope. Collecting and analyzing data using various software.
* Proven dependability and productivity in an individual or group setting with minimal instruction and supervision.
* Significant contributor to research publications with excellent written and verbal communication skills.

**EDUCATION**

**University of Louisville**, Louisville, Kentucky

* Biology, Bachelor of Science – 2006

**CERTIFICATIONS**

Histotechnologist HTL(ASCP) – Certification #3455

Qualification of IHC (ASCP) – Certification #3455

**WORK EXPERIENCE**

* 2015 – 2018: Histotechnologist, Baptist Health Hospital, Louisville KY
  + Prepare various tissues for processing and embedding both paraffin and cryo.
  + Sectioning paraffin and frozen tissues in a timely matter.
  + Routine H&E, special staining, and immuno staining.
  + Tracking and documenting all patients’ data and information.

Worked in four different departments at University of Louisville, Louisville, KY

* 2013 – 2015: *Technologist II, Pathology Core Lab at Institute of Molecular Cardiology*
  + Prepare paraffin/cryo histological tissues and section histological tissues onto slides in a timely manner
  + Routine H&E, Trichrome staining on paraffin sections
  + Routine [immunofluorescence](http://en.wikipedia.org/wiki/Immunofluorescence) and immunoperoxidase with varies antibodies including standardize protocol for new antibody
  + Fluorescence and confocal imagine for data analysis
  + General lab management
* 2008 – 2013: *Lab technician III, Department of Ophthalmology and Visual Sciences*
  + Microdissection of rodents and swine eyes to obtain tissues/cells of interest Histological preparation of Cryo, paraffin, EM tissues/cells including fixation, dehydration, embedding and sectioning
  + Preparing and maintaining primary cells culture and human cell lines
  + Examination of stained tissues section with light and fluorescent microscopy and analyze data using Image J and Adobe photoshop
  + Preparation of image/data for presentation and poster using Microsoft Powerpoint
  + General lab management including chemical inventory and equipment maintenance
  + Training of students for histological and immunohistological staining
* 2006 – 2008: *Lab technician II, Department of Molecular, Cellular and Craniofacial Biology*
  + Paraffin Sections and IHC staining
  + Gene expression analysis using RT-PCR
  + Protein concentration determination (Lowry or BCA) and analysis of protein expression using ELISA, immunoprecipitation, and western blotting
* 2002 – 2006: *Lab Assistant, Department of Anatomical Sciences and Neurobiology*
  + Gross examination and microdissection to obtain tissues of interest for histological preparation of Cryo, paraffin, EM tissues including perfusion, fixation, dehydration, embedding and sectioning
  + Routine immunofluorescence staining on paraffin and vibratome tissues
  + Data and Image analysis using Microsoft Excel, Adobe Photoshop, Image J, and Zeiss Axiovision software

**ADDITIONAL SKILLS**

* Microsoft Office, Adobe Photoshop, Adobe Illustrator, AxioVision, and Image J Software proficiency
* Fluent in Mandarin Chinese, written and spoken

**PUBLICATIONS**

1. [Zhang H, Denhard LA, Zhou H, **Liu LH**, Lan ZJ.](http://www.ncbi.nlm.nih.gov/pubmed/18082624?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum) “*0610009K11Rik, a testis-specific and germ cell nuclear receptor-interacting protein*”. Biochem Biophys Res Commun. 2008; 366(4):898-904.
2. Li Zili, Zhang Heng, Denhard Leslie A., **Liu Lan-Hsin**, Zhou Huaxin, Lan Zi-Jian. “*Reduced white fat mass in adult mice bearing a truncated Patched 1*”. Int J Biol Sci 2008; 4:29-36
3. [Zhou H](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zhou%20H%22%5BAuthor%5D), [**Liu LH**](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Liu%20LH%22%5BAuthor%5D), [Zhang H](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Zhang%20H%22%5BAuthor%5D), [Lei Z](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Lei%20Z%22%5BAuthor%5D), [Lan ZJ](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Lan%20ZJ%22%5BAuthor%5D). “*Expression of zinc finger protein 105 in the testis and its role in male fertility*”. [Mol Reprod Dev.](javascript:AL_get(this,%20'jour',%20'Mol%20Reprod%20Dev.');) 2010 Feb 23
4. Tamiya Shigeo, **Liu LanHsin**, and Kaplan Henry J. “*Epithelial-Mesenchymal Transition and Proliferation of Retinal Pigment Epithelial Cells Initiated upon Loss of Cell-Cell Contact*”. Investigative Ophthalmology and Visual Science. 2010;51:2755-2763.
5. Kazuhiko Umazume, Yoreh Barak, Kevin McDonald, **LanHsin Liu**, Henry J Kaplan, and Shigeo Tamiya. “*Proliferative vitreoretinopathy in the swine - a new model*” IOVS IOVS-12-9768; published ahead of print June 22, 2012, doi:10.1167/iovs.12-9768
6. [Umazume K](http://www.ncbi.nlm.nih.gov/pubmed?term=Umazume%20K%5BAuthor%5D&cauthor=true&cauthor_uid=23341014), [**Liu L**](http://www.ncbi.nlm.nih.gov/pubmed?term=Liu%20L%5BAuthor%5D&cauthor=true&cauthor_uid=23341014), [Scott PA](http://www.ncbi.nlm.nih.gov/pubmed?term=Scott%20PA%5BAuthor%5D&cauthor=true&cauthor_uid=23341014), [de Castro JP](http://www.ncbi.nlm.nih.gov/pubmed?term=de%20Castro%20JP%5BAuthor%5D&cauthor=true&cauthor_uid=23341014), [McDonald K](http://www.ncbi.nlm.nih.gov/pubmed?term=McDonald%20K%5BAuthor%5D&cauthor=true&cauthor_uid=23341014), [Kaplan HJ](http://www.ncbi.nlm.nih.gov/pubmed?term=Kaplan%20HJ%5BAuthor%5D&cauthor=true&cauthor_uid=23341014), [Tamiya S](http://www.ncbi.nlm.nih.gov/pubmed?term=Tamiya%20S%5BAuthor%5D&cauthor=true&cauthor_uid=23341014).“*Inhibition of PVR with a tyrosine kinase inhibitor, dasatinib, in the swine*”. Invest Ophthalmol Vis Sci. 2013 Feb 1:54(2):1150-9. Doi-10.1167/iovs.12-10418
7. KY Science & Engineering Foundation 9th Innovation Entrepreneurship Conference“*Mechanisms involved in scar tissue contraction on the retinal surface.”-*Poster/Presenter

**REFERENCES**

**Dr. Timothy Jones, MD**

**Pathologist at Norton Health Care**

*(502)475-4618*

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**Branda Ice, HT**

**Lab Supervisor**

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**Michael Tseng, Ph.D.**

**Professor**

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**Shigeo Tamiya, PhD**

**Assistant Professor**

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