

## Lin Lei

### Work Experience

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|--|---------------------|
| National Human Genome Research Institute (NHGRI), NIH  | Bethesda, MD        |
| Contractor/biochemist  | Nov.2013 --         |
| <ul style="list-style-type: none"><li>• Record and store PBMC samples from patients</li><li>• Extract DNA from blood and/or PBMC samples</li><li>• Pull, clean, quantify and aliquot DNA for sequencing</li><li>• ELISA</li><li>• BIO-Plex</li><li>• RT-PCR</li><li>• DNA stamp</li><li>• Genotype using sequeno</li></ul>   |                     |
| ExonHit Therapeutics   | Gaithersburg, MD    |
| Research Associate   | Dec. 2005—Jul. 2011 |
| <ul style="list-style-type: none"><li>• Record and store blood and tissue samples from customers</li><li>• Extract RNA from blood and tissue samples</li><li>• QC RNA on Agilent Bioanalyzer 2100</li><li>• Synthesis and label cDNA</li><li>• Conduct Affymetrix or Agilent arrays</li><li>• RT-PCR to verify RNA splicing events</li><li>• Primer design</li></ul>   |                     |
| National Human Genome Research Institute (NHGRI), NIH  | Bethesda, MD        |
| Contractor/research assistant  | Sep. 1999—Nov.2005  |
| <ul style="list-style-type: none"><li>• Treat male zebrafish with ENU and look for mutated zebrafish</li><li>• Maintain and keep mutated zebrafish lines</li><li>• Harvest zebrafish or eggs to do in situ hybridization with hematopoietic markers</li><li>• Inject zebrafish under microscope with GFP</li><li>• Extract DNA from zebrafish</li><li>• genotype and sequence zebrafish DNA</li><li>• General lab work such as: PCR, gel running, DNA digest, ligation, etc.</li></ul> |                     |
| Shandong University  | Jinan, China        |
| Chemistry department   | Jul 1995—Jun 1998   |
| Research associate in inorganic chemistry  |                     |

Zaoyang Nurse School

Hubei, China

Teacher

June 1987—June 1995

Lecturing Chemistry, Biochemistry

## Laboratory skills

*Clinical Sample processing:* handling and processing human blood, and tissues from human and animal; RNA extraction from the samples, cDNA synthetic for microarray.

*Molecular Biology:* DNA/RNA extraction, DNA digest, DNA amplification, ligation and subcloning, Northern blotting, Southern Blotting, DNA transfection, PCR/RT-PCR, genotyping and sequencing.

*Lab Documentation:* keeping daily lab work record, writing experimental procedures (GLP) and application notes, updating database for sample banks, phenotype and genotype

## Computer Skills:

Experienced in different operating systems, Windows and MacOS  
Proficient in most Microsoft applications: Word, Excel, Access and PowerPoint  
Skillful in bioinformatics tools such as GeneBank, BLAST

## Education

1997-1998 Chemistry department, Shandong University, Jinan, China

Graduate student in inorganic chemistry

1985—1987 Xiangyang teacher's college, Hubei, China

College student in chemistry

## Publication

Lyons S, Lawson N, **Lei L**, Bennett P, Weinstein B, and Liu PP. A nonsense mutation in zebrafish gata-1 causes the bloodless phenotype in Vlad Tepes. *Proc Natl Acad Sci USA* 99:5454-5459, 2002.

English MA, **Lei L**, Blake T, Wincovitch S, Sood R, and Liu PP. Incomplete splicing, cell division defects, and hematopoietic blockage in dhx8 mutant zebrafish. *Developmental Dynamics*, 241:879-889, 2012.

