

Lisa Zalepa King, Ph.D.

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RESEARCH AND LAB EXPERIENCE

THE STEADMAN PHILIPPON RESEARCH INSTITUTE

Spine Research Coordinator (2015-present)

- Collect, organize and interpret spine data to write scientific papers and proposals
- IRB preparation and submission
- Database management, collection, interpretation: Console, Navicat, SQL
- ERP preparation and submission
- Research, write and submit papers to scientific journals
- Operation Room shadow on spine procedures

MT. SINAI HOSPITAL, New York, NY

Post-Doctoral Fellow (2014-2015) Department of Neurology

- Conduct mammalian research focused on the mechanism of GnRH hormone
- Utilized a profusion machine treating various cells to compile statistical data
- RNA work included isolation, RT PCR, PCR, flow cytometry training, improvement on existing assay kits, troubleshooting techniques, optimized existing experimental designs and tested new methods
- Conducted mouse husbandry/surgery for pituitary glands for primary cell cultures
- Gained proficiency with mammalian cell culture: primary and LbT2 engineered line
- Robotic experience: Biomek,NXP, ABI 7900 Sequencer, ST Robotics R12, Qiagen BioRobot 9604

BIOCHEMISTRY DEPT., STONY BROOK UNIVERSITY, Stony Brook, NY

Research Associate, Molecular-Cell Biology (2007-2013)

- Designed and conducted biochemical methodologies for thesis including: confocal fluorescent microscopy, cloning, DNA/RNA isolation, PCR/RT-PCR, Western blot, flow cytometry and optimization of various assay kits
- Designed protein fusions, various transient/stable transformation methods, protein express patterns, cell culture and mutational analysis
- Gained experience in bioinformatics, kinase assays, Crystallography screens, Micro Calorimeter binding assay and insect cell culture

COLD SPRING HARBOR LABORATORY, Cold Spring Harbor, NY

Lab Technician I (f/t (2000-2002)

- Provided assistance in Production, Finishing, and Technical Development Depts.
- Specialized in developing innovative sequencing procedures and low volume reactions

MANAGEMENT EXPERIENCE

ALBUM KING, INC., Deer Park, NY

Vice President of Operations (1992-1997)

- Managed day-to-day operations Held HR responsibilities for staff recruitment, training, supervision, and directed sales

EDUCATION

STONY BROOK UNIVERSITY-SUNY, Stony Brook, NY

Doctor of Philosophy, Molecular and Cellular Biology (2013)

Dissertation: "A Plasmodesmal Glycosyltransferase-like Protein" Advisor: Vitaly Citovsky

STONY BROOK UNIVERSITY-SUNY, Stony Brook, NY

Bachelor of Science, Biochemistry (1999)

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PUBLICATIONS

Zalepa-King, L, and Citovsky, V., "A Plasmodesmal Glycosyltransferase-like Protein," PLOS ONE (Feb 2013)

With Krichevsky, A., Zaltsman, A, and Citovsky, V., "Expression of complete metabolic pathways in transgenic plants," *Biotechnology and Genetic Engineering Reviews*, Vol. 28 (2012), 1-14.

With W.R. McCombie et al, "Sequence and analysis of chromosome 5 of the plant *Arabidopsis thaliana*," with The Kazusa DNA Research Institute, CSHL and Washington U. in St. Louis Sequencing Consortium & The European Union Arabidopsis Genome Sequencing Consortium, in *Nature* Vol 408 (14 Dec 00), 823-826.

TEACHING EXPERIENCE

STONY BROOK UNIVERSITY, Stony Brook, NY

Teaching Assistant, Department of Biology (9/05-5/06)

- Developed and taught Biology Lab to classes of 25 undergraduate students
- Delivered PowerPoint lectures and wrote/graded quizzes and examinations
- Organized weekly extra help sessions and supervised laboratory research