

## **POSITION DESCRIPTION**

**PROPOSED JOB TITLE:** Research Technologist 1

**DEPARTMENT:** Surgery – Medical School

**REPORTS TO:** Laboratory Manager

**SUPERVISES DIRECTLY:** None

**JOB SUMMARY:** Under direct supervision, performs standard and moderately complex research procedures following detailed research protocol.

<b>DUTIES AND RESPONSIBILITIES</b>	<b>% OF TIME</b>	<b>ESSENTIAL FUNCTION *(E)</b>
1. Following detailed technical instructions in setting up and conducting standard experiments including preparation of nucleic acids from cultured cell lines and tissue samples, preparation of nuclear extracts, Western, Southern, and Northern blots, electrophoretic mobility shift assays, immunoprecipitations, PCR and RT-PCR, cell cycle analysis, proliferation and apoptosis assays.	80% (#1-3)	E
2. Maintaining cell cultures and preparing media for cell culture.		
3. Maintaining detailed record of results including entering data into computer for further statistical analyses.		
4. Performing scientific literature searches as required.	10%	E
5. Directing or instructing other laboratory personnel or students in research techniques or procedures.	5%	E
6. Performing general laboratory maintenance tasks and taking inventory of laboratory supplies. Ordering routing supplies as necessary.	5%	
7. Performing other duties as assigned.		

\* Refer to page 4 of the “Guidelines for Writing a Competency Based Position Description” for instructions.

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Updated 9/10/2003

## **MINIMUM QUALIFICATIONS:**

### Degrees, Certifications and Licenses:

1. Bachelor's degree in biology or basic science required.

### \*Competencies:

2. Demonstrated laboratory experience in the areas of molecular biology, cell biology, and at least 1 year of laboratory coursework.
3. Ability to apply sterile techniques and applying mathematical computation analysis.
4. Demonstrated ability to carry out laboratory experiments and following detailed instructions as required by research protocol.
5. In depth knowledge of maintaining cell lines and proliferation.
6. Extensive experience in PCR, RT-PCR, and proliferation and apoptosis assays.
7. Ability to work independently and in a team environment.
8. Attention to detail and accurate record keeping.
9. Manual dexterity.
10. Ability to perform protein and DNA computer database searches.

## **PREFERRED QUALIFICATIONS:**

1. Knowledge of library research tools and scientific terminology.
2. Familiarity with Western, Southern, and Northern blotting techniques from laboratory coursework.
3. 1-3 years-prior laboratory experience.
4. Excellent communication, organizational, interpersonal skills.

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