

**MARY JONES**  
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An exceptionally talented scientist with more than 13 years of diverse experience in methodology and process development for research studies in the healthcare industry.

A personable professional with excellent creative, analytical, documentation and technical research skills.

## **EXPERIENCE**

**Bates Healthcare Corporation**, Los Angeles, California

2005-2009

### **Research Scientist, Cell Process Development, Immunotherapy Division**

Served as a member of the Cell Process Development Group that developed processes for the production of human therapeutic proteins from hybridomas and animal cells.

- Maintained viable working cultures and adapted new cell lines to serum-free, defined media.
- Designed and optimized media for cell growth and higher therapeutic protein production levels.
- Operated bioreactors (3-150 liters) for process, optimization and scale-up of cells.
- Developed serum-free media and batch processes for monoclonal antibodies for infectious diseases.
- Acted as a consultant to another Bates laboratory and resolved a cell growth process problem.
- Adapted a cell line to serum-free and increased cell production by 300% after unsuccessful attempts by colleagues.
- Trained six new scientists on research techniques, equipment and documentation.
- Supervised two staff with responsibility for project scheduling, assignment planning and resource management.

**National Medical Center**, Los Angeles, California

2001-2005

### **Staff Scientist, Division of Pediatrics, Pharmaceutical Laboratory**

Led the pharmaceutical testing on leukemia cells for a leading cancer research center.

- Developed and conducted tissue culture experimental research for the growth of lymphoblastic leukemia, human choriocarcinoma and human adeno-carcinoma cells.
- Maintained cell lines for tissue culture.
- Performed research on the effects of ten different pharmaceuticals on cell growth rate and cytotoxicity.
- Performed HPLC purification of investigational drugs and determined the degree of substance recovery.
- Performed TCA extraction to measure drug levels in media.
- Performed Thymidylate Synthase (TS) assay for enzyme levels before and after chemotherapy.
- Performed P. Cerevisiae assay on bone marrow aspirate for typing leukemia from white blood cells.

**MARY JONES**

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**CytoScan Experimental Medicine**, Los Angeles, California

1999-2001

**Research Assistant**

Responsible for testing medical lab equipment.

- Designed and conducted experimental procedures to evaluate the safety and efficacy of drugs.
- Performed validation and verification tests on the human-machine interface of medical devices.

**California State University**, Los Angeles, California

1997-1999

**Research Assistant**

Prepared, performed and confirmed the results of hemoglobin laboratory research testing.

**Pasadena City College**, Pasadena, California

1996-1997

**Teacher Assistant**

- Assisted in the instruction of Chemistry classes and served as a substitute teacher.
- Tutored in Chemistry, Biology, Mathematics and Calculus.

**EDUCATION**

**California State University, Los Angeles**, Los Angeles, California

**Bachelor of Science, Biochemistry**

**Pasadena City College**, Pasadena, California

**Associate of Arts, Chemistry**

**COMPUTER SKILLS**

Lotus, WordPerfect, Sigma Plot, Harvard Graphics, Dose-effect analysis, Autosketch, Windows and Windows-based programs, Freelance, Paradox and Slide Write

**RESEARCH TECHNIQUES**

HPLC, column, gas and thin layer chromatographic analysis  
Electron microscopy preparation and fixation  
Infrared and nuclear magnetic resonance spectroscopy  
Paper electrophoresis and ion exchange chromatography  
DNA/RNA Extraction and Slot Blot, Southern & Northern Transfer methodology  
PCR Assay, Nick Translation, End Labeling  
Hybridization and isolation of Plasmid and purification of DNA  
Electrophoresis, peptide mapping, and sequencing affinity chromatography, enzyme functions, lipids chemistry, carbohydrates and nucleic acids