

# MARY LYON

Mount Holyoke College 1997 Blanchard Student Center South Hadley, MA 01075 (413) 555-1221  
mlyon@mtholyoke.edu

## EDUCATION

**Mount Holyoke College**, South Hadley, MA

Candidate for Bachelor of Arts degree, *Magna Cum Laude*, May 1998

Major: Biochemistry

GPA: 3.86 / 4.00

**International Baccalaureate Diploma**, United World College of the Atlantic, Wales, UK, May 1994

## AWARDS AND HONORS

**Internship Program Scholarship**, Summer 1997

**Louisa Stone Stephenson Prize** for excellence in Chemistry, May 1997

**Upperclass Academic Advisor in Biochemistry**, May 1997

**Sarah Williston Scholar** (top 15% of sophomore class), October 1996

**Federal Republic of Germany Book Award**, May 1996

**Abby Howe Turner Award** for excellence in Biological Sciences, May 1995

## RELEVANT COURSEWORK

Protein Biochemistry and Function

Advanced Molecular Biology

Immunology

Cell Biology

Genetics

Plant and Animal Physiology

Organic Chemistry I and II

Physical Organic Chemistry

Fundamentals of Chemistry

Chemical Thermodynamics

Physics: Force, Motion and Energy

Calculus II

## EXPERIENCE

**Independent Study in Biochemistry**, Mount Holyoke College, Fall 1996 - present

Conducting in-depth research on the role of promoter clearance in bacterial transcription initiation towards completion of senior honors thesis to be presented at the Annual Undergraduate Science Symposium.

**Tutor and Grader**, Chemistry and Biochemistry Departments, Mount Holyoke College, February 1997 - present

Grade homework assignments and laboratory reports, tutor students in organic chemistry and biochemistry.

**Research Intern**, Foundation for Cardiac Surgery Development, Zabrze, Poland, Summer 1997

Worked in various research divisions of the Foundation's Research Center, learning about the multiple steps involved in research and development of artificial heart and biological heart valves. Performed routine diagnostic tests in a clinical genetics laboratory.

**Research Intern**, University of Texas M.D. Anderson Cancer Center Research Division, Smithville, TX, Summer 1996

Worked in skin carcinogenesis laboratory on linkage analysis of susceptibility to tumor promotion by TPA in Mice. Extensively used PCR and PAGE. Presented results at Student Science Symposium.

## SKILLS

**Laboratory Procedures:** molecular cloning, Polymerase Chain Reaction (PCR), *in vitro* transcription, agarose and polyacrylamide gel electrophoresis, Sanger dideoxy sequencing, CsCl gradient centrifugation, restriction enzyme digestion, Southern blotting, fluorescence and phase-contrast microscopy, spectrophotometry, molecular sieve chromatography, NMR, FTIR, adiabatic bomb calorimetry

**Equipment:** NMR Spectrometer (IBM 270mhz), IR Spectrophotometer, Mattson FTIR Spectrophotometer. Sorvall refrigerated centrifuge, fluorescent and light microscopes, various electrophoresis units

**Computer:** Microsoft Office (Word, Excel, PowerPoint), Lotus, Statview, Cricket Graph, MacSpartan, Chem Draw, Word Perfect, HTML

**Languages:** fluent in Polish and English, conversational German, basic Spanish and Russian

## PUBLICATIONS

Angel JM, Beltran L, Minda K, Rupp T, DiGiovanni J, **Association of a murine chromosome 9 locus (Psl1) with susceptibility to mouse skin tumor promotion by TPA.** *Molecular Carcinogenesis* 1997 Oct; 20(2): 162-167

## ACTIVITIES

**International Club**, Mount Holyoke College, Fall 1994 - present. Senator to Student Government Association.

**Journal of the Women's College Art Coalition, Editorial Board**, September 1997 - present.

**Chemistry Club**, Mount Holyoke College, Spring 1997 - present.

**Brackenridge Hospital - Children's Hospital of Austin**, Austin, TX, Summer 1996.

Volunteer at the pediatric oncology ward.

**Concert Choir and Glee Club**, Mount Holyoke College, 1995/1996