

Maria Marine-Scientist

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SUMMARY

Team-oriented, creative, and technically-experienced marine biology Ph.D. seeking research and development position in the biotech industry.

EDUCATION

Ph.D., Marine Biology

University of California, San Diego (UCSD) – Scripps Institution of Oceanography, 20xx

B. S., Biology with Honors

Pepperdine University – Malibu, California, 19xx

RESEARCH EXPERIENCE

Graduate Research Assistant – UCSD. Molecular Fertilization, 19xx – Present

- Mastered various molecular biology and biochemistry techniques by studying fertilization.

Research Assistant – Abilene Christian University. Molecular Systematics, 19xx

- Organized academic start up molecular lab and created database for chemicals and collections.

Lab Coordinator – Pepperdine University. Natural Science Division, 19xx

- Maintained laboratory supplies for all courses and research laboratories.

Laboratory Technician – Pepperdine University. Molecular Biology, 19xx

- Conducted molecular research on California tree frog photolyase activity.

Field Technician – Smithsonian Institution. Biodiversity of the Guyanas Project, 19xx

- Processed mammalian specimens for expansion of South American mammalian collections.

SELECTED SKILLS & TECHNIQUES

Molecular Biology Techniques:

- RNA and DNA isolation
- polyA⁺ RNA selection
- cDNA synthesis
- cDNA library construction and screening
- 5' and 3' RACE
- PCR, primer construction and cloning
- DNA sequencing
- Northern
- Southern

Protein Biochemistry Techniques:

- protein isolation
- protein gel electrophoresis
- protein expression
- peptide antigen conjugation to KLH
- IgG and IgY purification
- western and dot blotting
- immunoprecipitation
- immunofluorescence
- HPLC

Bioinformatics:

- GenBank searching: BLAST, PSI-BLAST, and PHI-BLAST
- multiple sequence alignments
- tree building using dnaml and PHYLIP
- genome trace archive usage
- protein sequence analysis tools: wide use of Expasy web site

Computer Skills: Word processing, spreadsheets, databases, design, web publishing and HTML.

Leadership: Exceptional communication, organizational, public speaking and mentoring skills.

Language: Bilingual English/Spanish and conversational in Italian.

(Cont'd)

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ADDITIONAL COURSEWORK

- **Physiology** – Marine Biological Laboratory, Woods Hole, Massachusetts, 19xx
- **Comparative Invertebrate Embryology** – University of Washington, Friday Harbor Laboratories, Friday Harbor, Washington, 19xx
- **Biology of Early Development: Embryo Defense Mechanisms** – Stanford University, Hopkins Marine Station, Pacific Grove, California, 19xx
- **Field Marine Science** – Cornell University, Shoals Marine Laboratory, Appledore Island, New Hampshire, 19xx

TEACHING EXPERIENCE

- **Head Teaching Assistant** – Structural Biochemistry, UCSD, 20xx
- **Field Teaching Assistant** – Marine Biology, Abilene Christian University, 19xx
- **Teaching Assistant** – Invertebrate Zoology and Cell Biology, Pepperdine University, 19xx-19xx

HONORS / AWARDS

- *TA Excellence in Teaching Award*, Division of Biological Sciences, UCSD, 20xx
- *American Society for Cell Biology Minorities Affairs Committee Award*, 20xx-20xx
- *NSF Minority Graduate Research Fellowship*, 19xx-20xx
- *NSF Minority Graduate Research Fellowship Mentoring Assistantship*, 19xx
- *Outstanding Senior Researcher*, Pepperdine University, 19xx

PROFESSIONAL SOCIETIES

- American Association for the Advancement of Science
- American Women in Science (AWIS)
- American Association of University Women (AAUW)
- American Society for Cell Biology

VOLUNTEER / LEADERSHIP ACTIVITIES

- **Science Fair Judge:** AWIS judge for junior high school zoology presentations, Greater San Diego Science and Engineering Fair, 20xx
- **Research Mentor:** Introduce science major undergraduates and high school students to research, University of California, San Diego, 20xx–20xx
- **Coordinator/Instructor:** Organized and taught Oceanography Day for Young Native American Scholars, Upward Bound minority students, and senior citizens, 20xx-20xx
- **Founding Member:** Scripps Community Outreach Program for Education (SCOPE) and Scripps Women in Science (SWIS), 20xx and 20xx
- **Career Mentor:** Promoted science and math careers and counseled junior high girls through AAUW, Girl Power, and various San Diego high school career days, 20xx-20xx

CITIZENSHIP: United States of America and Venezuela.

REFERENCES AND PUBLICATIONS: Available upon request.