



**Randal Maile**

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## WORK EXPERIENCE

**Web:** **Web Designer / Developer** **5/2007-current**  
**Dept. of Cell Biology and Neuroscience - Dr. Karine Le Roch**  
**University of California at Riverside**

- Implemented an Internet presence management plan for Dr. Le Roch's laboratory.
- Reviewed source material, created technical copy, followed Best Practice methods, and implemented the final build out following web standards.
- Established a working web solution replete with laboratory data management tools, a laboratory protocol space and blog capabilities for idea and news sharing.
- Currently implementing content management (Adobe Contribute) functionality with an eye on improving the lab's web presence by keeping content fresh.

**Educational:** **Interactive Media / Curriculum Development Consultant** **8/2007-current**  
**Kearny High Educational Complex – SIB – Leslie Horowitz**  
**Scripps Institute of Oceanography Collaboration**  
**San Diego, CA**

- Established project goals to define an educational website: create a portal to explore phytoplankton research in particular and marine biology as a whole for high school students and educators.
- Served as a consultant for curriculum writing and edited technical copy.
- Created sitemap and wireframes based on agreed upon Information Architecture concepts.
- Established critical tools and technical specifications that foster dynamic content and interactivity.
- Designed copy concepts showcasing different graphic styles.

**Scientific:** **Sr. Research / Collaborations Associate** **1/2005-4/2007**  
**Lead Discovery – Dr. Achim Brinker**  
**Genomics Institute of the Novartis Research Foundation, San Diego, CA**

- Coordinated and implemented strategies for screening pharmaceutical compounds for therapeutic benefit: success in obtaining broad range of promising drug candidates.
- Organized planning materials, evaluated technical methods, and delegated actions across multi-disciplinary groups.
- Evaluated fluorescent technical methods, delegated action plans across multi-disciplinary research groups and conducted experiments to create novel drug tests.
- Facilitated outside technical collaborations: hosted effective technical communication and brokered resource commitments.

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**Sr. Research Associate III** **9/2001-5/2004**  
**Research and Development – Dr. John Trawick, Ph.D.**  
**Elitra Pharmaceuticals, San Diego, CA**

- Developed a *Candida albicans* fitness assay for use in testing synthetic and natural extract compounds.
- Adapted the assay for 384-well high throughput capacity.
- Combined PCR based essential gene cloning, plasmid engineering, genomic database search and retrieval to generate gram-positive bacterial strains for drug screening.
- Organized large data sets and created a database for efficient access of company proprietary information: biologics, drug screening tools, protocols, bacterial strain, genetic information

**Research Associate** **12/1997-2/2001**  
**Biochip Group – Robert Caldwell, M.S.**  
**Genencor Intl., Palo Alto, CA**

- Developed microarray gene expression applications and automated analysis methods:
- Analyzed gene expression data using GeneSpring\_ software.
- Trained functional genomics team members on the GeneChip\_ Instrument System.
- Developed assays for quantifying specific mRNA targets using real time RT-PCR LightCycler and
- ABI Prism\_ 7700 Sequence Detection System instrumentation and software.

**Graduate Student** **8/1994-1/1997**  
**Howard Hughes Medical Institute – Professor Gerald M. Rubin, Ph.D.**  
**University of California at Berkeley**

- Designed novel tissue-specific expression screens in *Drosophila melanogaster*:
- Created P-element transgenic *Drosophila* strains utilizing embryological microinjection techniques.
- Generated fusion proteins, isolated polyclonal antiserum, and stained retinal tissues to detect protein localization
- Studied Nur77 mediated apoptosis in anti-CD3 antibody stimulated thymocytes and T-cell hybridomas using tissue culture methods, cell staining and flow cytometry techniques.

**Research Associate** **5/1992-8/1994**  
**National Cancer Institute – Dr. Louis Staudt, M.D., Ph.D.**  
**National Institutes of Health, Bethesda, MD**

- Implemented a high throughput automated sequencing project using ABI sequencers: mined data from subtracted cDNA libraries enriched for human lymphoid-restricted genes.
- Organized and ran a weekly journal club.
- Trained and coordinated a team of summer interns involved in the ABI\_ automated sequencing project.

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## **EDUCATION Professional Certificate in Photography**

2005-current  
UCSD Extension (in progress)

## **Masters in Molecular and Cell Biology**

1997  
University of California at Berkeley

## **Continuing Education in Molecular Immunology**

1992-1993  
George Washington University  
Washington, D.C.

## **Bachelors in Biochemistry and Cell Biology**

1992  
University of California at San Diego  
Minors: Economics and Music

## **HONORS UC Regents Fellowship - Molecular and Cell Biology - UC Berkeley.**

**Special Recognition – UC Berkeley Teaching Assistant**

**NIH – NCI Fellowship**

## **SELECTED PUBLICATIONS**

- Transport capabilities encoded within the *Bacillus subtilis* genome. Saier MH Jr, Goldman SR, Maile RR, Moreno MS, Weyler W, Yang N, Paulsen IT. *J Mol Microbiol Biotechnol.* (2002), 4(1):37-67.
- Correlation between *Bacillus subtilis* ScoC phenotype and gene expression using microarrays for transcriptome analysis. Caldwell R, Sapolsky R, Weyler W, Maile RR, Causey SC, Ferrari E. *Journal of Bacteriology.* (2001), 182(24):7329-40.
- P element insertion-dependent gene activation in the *Drosophila* eye. Hay B, Maile R and Rubin GM. *Proc. Nat. Acad. Sci.* (1997), 94:5195-5200.
- Rapid identification of novel human lymphoid-restricted genes by automated DNA sequencing of subtracted cDNA libraries. Staudt LM, Dent A, Ma C, Allman D, Powell J, Maile R, Scherle P, Behrens T. *Current Topics in Microbiology and Immunology.* (1995), 194:155-61.

## **WEB DESIGN / DEVELOPMENT SKILLS**

- Daily / Expert use of Adobe Creative Suite 3 Web Premium tools: Photoshop, Illustrator, Fireworks, Dreamweaver, Flash, Bridge, and Camera RAW.
- Expert knowledge of standards-based (X)HTML and CSS.
- Introductory knowledge of Javascript and DOM based Javascript Frameworks (Prototype and Mootools) and associated scripting libraries.
- Daily use of blogging tools and development: WordPress administration skills and theme manipulation.

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## COMMUNICATION/ORGANIZATIONAL SKILLS

- Demonstrated track record of forming and managing collaborations both within organizations and across disciplines and fields.
- Demonstrated experience in writing/editing peer reviewed NIH research grants: coordinated editorial efforts with outside consultants.
- Proven track record of publishing scientific articles in peer review journals: storyboarding, graphic figure processing, Information Architecture analysis, draft writing and editing.
- Proven track record of public speaking in the context of scientific talks: academic, corporate and research conference settings.

## RELATED COMPUTER SKILLS

- Expert knowledge of Windows and OS X platforms.
- Daily use of Microsoft Office applications.
- Extensive use of Powerpoint for preparing seminar talks.
- Working knowledge of FileMaker Pro and Access database applications.
- Working knowledge of commercial bioinformatics software.
- Statistical analysis of gene expression data using Affymetrix Microarray Suite 4.0.
- Working knowledge of Primer Express primer design software for real-time PCR applications.
- Working knowledge of Lasergene, VectorNTI Suite, and Clone Manager 6.
- Extensive use of public domain and proprietary genomic databases and search tools (SubtiList, BSORF, FlyBase, Genbank, dbEST, BLAST, Entrez, PathoSeq, LifeTools bioanalysis software).