

# CHEMISTRY RESUME

## MARY SMITH

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## EDUCATION

### CSU EAST BAY

Bachelor of Science in Chemistry, May 20XX

## RELEVANT COURSEWORK

Structure and Reactivity; Chemistry and Biology in Biotechnology; Organic Monofunctional Compounds; Chemical Separations; Organic Polyfunctional Compounds; Qualitative Organic Analysis; Theory and Practice of Quantitative Chemistry; Synthesis Laboratory; Physical Chemistry I, II, III; Physical Chemistry Laboratory I and II

## RELEVANT SKILLS

- **Purification**  
Flash chromatography, preparative HPLC, scavenger resins, solid phase extraction (SPE)
- **Characterization**  
One and two-dimensional NMR, LC/MS, MS, IR, HPLC
- **Software**  
ISIS/Base, ISIS/Draw, ACD/ChemSketch, ACD/NMR prediction tools, Bruker WinNMR (for processing, analysis), CrossFire Beilstein, SciFinder. Tecan Gemini (pipetting software), Tecan Pegasus (advanced scripting engine), MS Visual Basic 6.0, MS Visual Basic for Application (Excel), MS Windows, Office XP incl. PowerPoint
- **Special Instrumentation**  
CEM Discover, Personal Chemistry Emrys microwave synthesizers; Tecan Genesis RSP; Mettler-Toledo ALLEXis

## EXPERIENCE

### ROCHIE BIOSCIENCE

RESEARCH INTERN, MEDICINAL CHEMISTRY

Palo Alto, CA  
(Summer 20XX)

- Researched the effect and utility of various N-substituents in Suzuki cross-couplings between N-substituted 3-bromoindoles and arylboronic acids
- Separated/Purified products using extraction, recrystallization, liquid chromatography
- Identified products using NMR, LCMS, IR, elemental analysis, melting point

### AFFYMAX, INC.

CHEMISTRY INTERN, CHEMICAL LIBRARIES DIVISION

Palo Alto, CA  
(Summer 20XX)

- Synthesized molecules using liquid and solid phase chemistry
- Separated/Purified products using extraction, prep-HPLC, lyophilization
- Identified products using NMR, LCMS, IR, HPLC
- Submitted compounds for biological testing
- Portion of research was used to apply for a patent/invention disclosure titled "Methods for Localizing and Monitoring Gene Expression" by Affymax

## ACTIVITIES

**ALPHA CHI SIGMA:** Co-president of professional chemistry fraternity



San Francisco State University Career Center

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