

# David J. Martin

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## EDUCATION

### University of California - San Diego

Biochemistry and Cell Biology, B.S. – *Cum Laude*

La Jolla, CA

June 2018

- Relevant Coursework includes: general & organic chemistry, biochemical techniques, recombinant DNA techniques, microbiology, molecular biology
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## SKILLS AND STRENGTHS

- **Good documentation and safe laboratory practices**—Familiar with chemical and material hazards, Safety Data Sheets, proper handling & storage procedures, GDP, GMP, and testing protocols.
  - **Intrapersonal and communication skills** – Communicate important and sometimes critical information in a healthcare setting to ensure quality patient care is achieved.
  - **Computer skills**—Proficient use of Microsoft Office; Word, Excel and PowerPoint.
  - **Laboratory skills** - pipetting, preparing media, bacterial plating, chromatography, gel electrophoresis, ELISA, PCR, qPCR, DNA extractions in educational and workplace environments.
  - **Multi-tasking**—Preparing, running, and timing automated biochemical assays while performing manual assays in order to maximize the number of specimens tested.
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## WORK HISTORY

### QC Lab Technician

*DiaSorin Molecular*

Cypress, CA

(11/2021)–(01/2023)

- Operated and managed Liason MDX device and software to perform PCR assays.
- Regularly performed serial dilutions of RNA & DNA stock solutions and gBlocks.
- Formulated reaction mixes, primer pairs, and positive control samples daily for qc testing.
- Frequently tested incoming raw materials from biotech companies to ensure they were suitable to use in Diasorin's molecular production department.
- Executed DNA and RNA extractions using the Roche MagNaPure apparatus.
- Accurately documented approved components and raw materials used in molecular testing & performed calculations while maintaining excellent GDP.

### Monitor Technician

*Torrance Memorial Medical Center, 3E & 4E ICU*

Torrance, CA

(08/2020)–(06/2021)

- Carefully scrutinized the cardiac rhythm, blood pressure, and blood oxygen level for up to 48 ICU patients, including Covid-19 patients, ensuring their vitals are within normal range.
- Swiftly conveyed to the nurses any critical changes in EKG rhythms and vital signs to ensure prompt life-saving aid.
- Analyzed, measured, and interpreted EKG strips of patients in four-hour intervals.
- Communicated messages and critical lab results to ICU nurses while performing receptionist duties.

**Serology Laboratory Aide***Antech Diagnostics, Serology Department***Fountain Valley, CA**

(03/2020)–(07/2020)

- Managed and organized several hundred serum and blood samples for the entire serology department.
- Operated delicate Quadraspec BioCD analysis machine and amended issues with the apparatus and mechanism to ensure prompt delivery of results to clients.
- Performed manual ELISAs to detect heartworm antibodies in feline serum samples.
- Navigated Antrim lab software system to locate missing specimens in other departments and release test results.

**Private Tutor***High School Tutoring***Orange County, CA**

(11/2018)–(02/2020)

- Tutored clients in middle school and high school level math, science, and English along with SAT exam preparation.
- Modified select resources to meet student's needs, integrating worksheets to clarify lessons & concepts.
- Aided a student in writing supplementary essays that earned him an acceptance off of the CSULB waitlist.

**High School Teacher and Tutor***Ace Academy, Tutoring center***Cypress, CA**

(08/2018)–(05/2019)

- Developed and taught lesson plans for regular, honors and AP Biology and Chemistry for high school students.
- Tutored dozens of students in a wide array of subjects including language arts, math, history, and physics.
- Supplemented students' schoolwork with additional worksheets and small classrooms lessons.

**Instructional Assistant***UCSD, Biological Sciences Department***La Jolla, CA**

(09/2017)–(06/2018)

- Educated undergraduate students in three different courses throughout the academic year: Ecology and Evolution, Microbiology, and structural biochemistry.
- Taught a discussion section containing thirty students once every week to review and consolidate lecture material.
- Assessed homework assignments, projects, and exams to ensure my students had proficient understanding of the course material.
- Consistently achieved excellent peer reviews from my students at the end of each quarter.

**Laboratory Assistant***Salk Institute for Biological Studies***La Jolla, CA**

(10/2016)–(06/2017)

- Managed and updated a large excel spreadsheet daily, recording every change made or seen in the colony housing approximately 250 mice.
- Maintained the mouse colony by setting breeder units, weaning mice, tagging & tailing, and selecting optimal specimens for lab technicians' experiments.
- Performed PCR using mammalian tissue samples that I attained from tailing lab mice.
- Reduced the time previously taken to record mouse colony inventory and tag & tail mice by half.