

Sanica Mehta

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CORE COMPETENCIES

- Lab techniques: PCR, Thin layer chromatography, RFLP, Recombinant DNA technology, Gel electrophoresis, Gene Manipulation in Drosophila, Fractional Distillation
- Statistical Programming Software: R
- Excellent leadership and communication skills - written and oral, business savvy
- Microsoft Office Suite: Word, PowerPoint, Excel

EDUCATION

THE UNIVERSITY OF TEXAS AT AUSTIN

Senior, GPA: 4.00

Major: Biology

DIABLO VALLEY COLLEGE

GPA: 3.93

Major: Biology

Associate of Science (A.S.) in Biology

MAY 2019

Associate of Science (A.S.) in Natural Sciences

MAY 2019

Notable Classes: Cellular Biology, Biochemistry, Biostatistics, Genetics

EXPERIENCE

Kaiser Permanente, Walnut, CA - Shadowing the Oncology/Hematology Dept.

MAY 2019 - AUGUST 2019

- Thoroughly inspected charts to track the progress of the disease and make a treatment plan
- Discussed the balance between quality of life versus quantity for patients pertaining to the treatment of cancers
- Shadowed Doctors Michael Green, Juraj Kavecansky, Tanvir Sattar, and Aram Canin
- Have had over 60+ hours of clinical experience

Diablo Clinical Research, Walnut, CA - Clinical Research Technician

MARCH 2019 - DECEMBER 2019

- Tested artificial pancreas in a clinical trial for Type I Diabetes patients alongside Dr. Mark Christiansen M.D.
- Measured patients blood glucose levels via fingerstick and compared it to the CGM blood glucose value
- Used the amount of carbohydrate intake to calculate the amount of insulin to be delivered
- Reevaluated the basal rate based on the CGM values and the amount of insulin delivered
- Learned patient care for live-in Diabetes patients

Diablo Clinical Research, Walnut, CA - YSI Technician

AUGUST 2018 - DECEMBER 2019

- Worked in a clinical trial for Diabetes patients to test a subcutaneous blood glucose sensor
- Measure glucose levels in blood samples using Yellow Springs Instrument
- Coordinated with coworkers to manage the influx of blood samples
- Conducted blood fractionation on the patients' blood samples
- Discovered the influence of third-party factors on the Endocrine System in regard to insulin production and diabetes

RESEARCH

BIOACTIVE MOLECULES

JANUARY 2020 - MAY 2020

- Used various Organic Chemistry lab techniques to synthesize bioactive Schiff bases
- Analyzed the biological properties of Schiff bases such as anticancer, antimicrobial, and antifungal properties
- Researched the uses of metal ion - Schiff base complexes' capability to enhance the biological activity of Schiff bases

TREATMENT OF TRIGEMINAL NEURALGIA THROUGH CHARLOTTE'S WEB

MAY 2018

- Discussed the premises of Trigeminal Neuralgia.
- Analyzed the mechanisms and current uses of Charlotte's Web cannabidiol
- Considered Charlotte's Web as a new option for medication for Trigeminal Neuralgia patients
- Proposed a potential study that could be conducted to test the medication

SKILLS

- **Communication:** Explained key concepts to a large group of peers
- **Leadership:** Officer at the DECA club and Starbucks
- **Teamwork:** Accomplished smooth operation at Diablo Clinical Research amongst Technicians
- **Analytical / Problem Solving:** Worked under tight deadlines to solve problems
- **Academic Interest:** Biology, Chemistry, Calculus, Physics