

# BAHIRA BIOTECH

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## EDUCATION

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**The University of Texas at Austin**, Austin, TX  
Bachelor of Science in Biochemistry, GPA 3.4

May 2021

## SKILLS

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- **Laboratory Techniques:** Differential Scanning Calorimetry (DSC), Fourier Transform Infrared Spectroscopy (FTIR), X-Ray Powder Diffraction (XRPD), High Performance Liquid Chromatography (HPLC), Gel Electrophoresis, PCR
- **Languages:** Cantonese (Conversational)

## RESEARCH EXPERIENCE

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**Dr. Jane Smith Lab, The University of Texas at Austin**, Austin, TX

August 2019 – Present

*Undergraduate Research Assistant*

- Research interactions that occur between various drugs and polymers in order to improve the solubility and dissolution rate of the drugs (pharmacokinetics)
- Create new compounds through use of a hot-melt extruder to mix drugs and polymers together
- Analyze compounds through methods such as DSC, FTIR, XRPD, and HPLC to determine new physical properties
- Presented research findings monthly at lab meetings

**Bayer Pharmaceuticals**, Whippany, NJ

May 2019 – August 2019

*Intern*

- Interned with Bayer's hematology team to launch a novel severe Hemophilia drug
- Collaborated with national hemophilia organization to promote hemophilia advocacy
- Developed an individual project that was presented to hematology team and Bayer senior management

**Freshman Research Initiative, Epidermal Cell Fate Regulation Stream**, UT Austin

January 2018 – May 2019

*Undergraduate Research Assistant*

- Performed molecular and genetic analysis on two regulatory loci, the Transparent Testa Glabra2 (TTG2) locus and the Glabra2 (GL2) locus, and explored the regulation of plant pigment pathways
- Isolated and identified mutants and genes in pigments such as trichome, testa, and anthocyanin
- Designed research poster and presented research findings at university-wide Undergraduate Research Forum in Spring 2019

## CAMPUS INVOLVEMENT

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**UT University Unions - Events and Entertainment**, Austin, TX

January 2018 – May 2019

*Student Programming Assistant*

- Greeted visitors and maintained an affable and helpful environment
- Answered questions related to events around campus
- Responded to phone calls and emails related to campus events

**American Society of Biochemistry and Molecular Biology** – UT Chapter, Austin, TX

August 2017 – May 2020

*Student Mentor & Fundraising Committee Member*

- Planned fundraising and tabling events on campus to raise \$1000 for society activities
- Mentored an incoming biochemistry freshman to help them acclimate to life on campus

## HONORS AND AWARDS

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- Recipient, Charles C. and Lula May Wilson Endowed Scholarship

May 2018