**Maria De La Luz Rico**

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| 3600 84th Ave N.  Minneapolis, Minnesota 55443 | Home: 612-250-5913  marricomen@gmail.com |

**Summary**

Diligent research support team member experienced in the areas of biochemistry and organic chemistry. Well-organized in handling all documentation and recordkeeping requirements. Skilled at enhancing research accuracy and precision by carrying out efficient protocols.

**Skills**

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| * Data collection and analysis * Strong interpersonal and written communication skills * Problem-solving and critical thinking abilities * Proficiency in MS Office, GraphPad, MNova, ChemDraw | * Documentation and materials * Ability to maintain quality and safety control standards * Adaptive and collaborative team player * Fluent in Spanish |

**Experience**

**Research Associate** 11/2019 － 09/2020

Bio-Techne Minneapolis, MN

* Collaborated with lab team members to meet quarterly purification batch goals
* Researched and planned for assigned polyclonal purifications in case the batch was known to have issues throughout purification and/or needed special testing outside of normal procedures
* Processed animal bleeds to purify antibodies with at least 90% purity prior to sending to Quality Control
* Utilized bench-top chromatography methods for rabbit antibody purifications
* Managed up to four automated chromatography (FPLC) machines to process goat and sheep bleeds for antibody purification
* Recorded and entered data for each purification into our data management system per standard operating procedures
* Conducted initial purity and identification tests like size exclusion chromatography, gel electrophoresis and enzyme-linked immunosorbent assay (ELISA) prior to sending purification batch to Quality Control
* Participated in company wide fair as Antibody Operations department liaison to raise awareness of what our lab did within the company
* Cross-trained in monoclonal antibody and IgG purifications

**Student Outreach Coordinator** 06/2018 － 11/2019

Minnesota High Tech Association Minneapolis, MN

* Establish and maintain relationships with career center staff, faculty, and student organizations
* Collaborated with external partners to plan and execute workshops and presentations for STEM students
* Oversaw research, planning, execution and implementation of new mid-point intern survey
* Utilize MS Excel to analyze survey results, produce graphs and figures, and quantify intern experience
* Interpret results from intern surveys to optimize recruitment strategies
* Utilize various MS Excel functions, like VLOOKUP, to merge data from different spreadsheets in order to evaluate demographics of student pool
* Implement data validation into MS Excel spreadsheet used for student applications

**Front Desk Receptionist** 02/2018 － 03/2020

The FIRM Minneapolis, MN

* Input customer data using MINDBODY software and make immediate updates to reflect changes
* Draft and maintain incident reports, daily activity logs and other documents requested by management
* Deliver exceptional customer service and support to team and 200+ club members, maximizing productivity and member satisfaction

**Research Assistant** 06/2017 － 12/2017

University Of Minnesota Minneapolis, MN

* Supported principal investigator during research into utilizing photocrosslinking to probe BPTF interactions with small molecule inhibitor ligand
* Achieved 55% yield of small molecule via multi-step synthesis
* Applied high degree of accuracy and precision when preparing documentation of procedures and data gathered
* Successfully implemented solid phase peptide synthesis on small molecule probe and photoactive cross-linker
* Determined molecular structure through analysis of chemical shift, spin multiplicity, integral, and coupling constant utilizing MNova software
* Utilized PrOF-NMR to characterize small molecule probe interaction with BPTF Bromodomain
* Commenced setup of small molecule library screening assay utilizing fluorescence polarization
* Utilized GraphPad Prism to generate Klotz plots and determine equilibrium dissociation constant

**Research Assistant** 05/2016 － 08/2016

Augsburg College Minneapolis, MN

* Obtained >80% yields through optimization of organic synthesis via microwave reactor technology
* Interpreted retention time and intensity count data from GC-MS tests to characterize sample utilizing MNova software
* Prepared tables, graphs, and written reports summarizing research results to present at National Conference

**Bankruptcy Paralegal** 05/2012 － 06/2016

The Law Office Of Iris Ramos Minneapolis, MN

* Consulted with clients and legal professionals to define and document case details
* Prior to firm merge implemented legal practice management and CRM software in firm
* Researched market value of client's assets and input data in schedules to generate petition

**Education and Training**

**Bachelor of Science:** **Augsburg University - Chemistry** 12/2017

**Minneapolis, MN**

* Hispanic Scholarship Fund Scholar, Conrad Sunde Scholar, Honoring Outstanding Latinxs at Augsburg Scholarship Recipient, and LANDO Scholar