

Kailee Zingler
Curriculum Vitae
kaileevzangler@gmail.com
847-749-5580

Research Interests Drug resistant bacteria, chronic gastrointestinal diseases, rare endocrine diseases, infectious disease, and pathogenesis

Research Experience **Student Research Assistant** Antimicrobial Drug Discovery in Biology Department of NMT
January 2015 - May 2016

- Utilizing common microbiology techniques to test potential drug candidates on common and pathogenic bacterial cell lines and summarized data from assays to give drug statistics
- Took care to prepare stock cultures, media, plates, standards and solutions needed for microbiological testing
- Independently in charge of performing routine maintenance in the form of cleaning and calibration of equipment used in the micro lab

Student Research Assistant Medicinal Chemistry in Chemistry Department of NMT
February 2014 - May 2016

- Developed new procedures to conduct metalorganic chemistry for creation of novel pharmaceuticals for anticancer and antibacterial drug discovery
- Place orders and maintain the chemical and consumable material inventory stocks to perform chemical testing
- Acted as supervisor during time as senior member of lab group
- Three publications to follow from two different projects

Student Research Assistant Center for Leadership in Technology Commercialization at NMT
January 2014 - May 2016

- Worked as a manager on a multidisciplinary team to customize plans for patenting, licensing, and selling inventions utilizing market research
- Employed analytical problem solving skills and effective business language to network with patent attorneys and pharmaceutical companies
- One project entering into animal testing and licensing stage

Senior Student Administrative Assistant Joseph R Skeen Library at NMT
August 2012 - February 2014

- Developed new system for filing library circulation records, finances, and timesheets, as well as maintaining the budget
- Managed relationships with publishers, suppliers, colleagues, and support services
- Acted as a communication liaison between management and library staff

Education Bachelors of Science in Biology
New Mexico Institute of Mining and Technology (NMT), Socorro, NM
Graduation Date May 2016
Magna Cum Laude

Awards	<p>New Mexico Tech Honor Roll: May 2013</p> <p>New Mexico Tech Honor Roll: May 2014</p> <p>Student Appreciation Award: April 2015</p> <p>Tech Scholar: May 2015</p> <p>Student Appreciation Award: April 2016</p> <p>David K Shortess Award: May 2016</p>
Patents	1 provisional patent filed
Publications	3 publications pending
Posters	<p>Novel Anticancer Drugs on the Basis of Diversely Functionalized N-Containing Heterocycles: NMT 49ers Poster Competition (Nov 2014)</p> <p>Novel Anticancer Drugs on the Basis of Diversely Functionalized N-Containing Heterocycles: 249th ACS Conference (March 2015)</p> <p>Novel Anticancer Drugs: Student Research Symposium (April 2015)</p> <p>Nocturnin: A Night Acting Protein in Modulated by a High Fat Diet in Rats: Student Research Symposium (April 2016)</p>
Skills	<p>Languages: English and French</p> <p>Job Skills: Effective interpersonal communication, team work, organized, studious, independent, timely, maintenance of quality pyramid, type 60 WPM</p> <p>Skills in Field: Aseptic technique, bacterial cell culture, surveying samples, drug synthesis, drug testing (synergy, PDT, MIC), PCR, western blots, spectroscopy, FDA regulations, SOP editing, gmp, protein purification, cloning plasmids, assays (ATP, glucose, MTT, resazurin), literature searches, quality assurance/control</p> <p>Computer Skills: LaTeX, Github, markdown, html, and proficient in Microsoft Office</p>
Memberships	American Chemical Society (ACS) 2015-present
References	<p>Dr. Snezna Rogelj: snezna@nmt.edu</p> <p>Dr. Liliya Frolova: lilfrolova@gmail.com</p> <p>Dr. Peter Anselmo: anselmo@nmt.edu</p> <p>Sandra Licata: slicata@admin.nmt.edu</p>