

PRIYANKA KAPOOR

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EDUCATION

Whitman College, Walla Walla, WA

GPA: 3.990

Bachelor of Arts Pending:

Biochemistry Biophysics and Molecular Biology

Expected Completion May 2019

Thesis Title: "Design, synthesis and evaluation of macrocyclic carfilzomib analogs as inhibitors of the human 20S proteasome"

Pending Completion May 2019

AWARDS

Assistant Commencement and Convocation Marshal

May 2018

- Selected for scholarship and citizenship to honor an outstanding member of the junior class

Top Student in General Chemistry

May 2016

- Awarded for excellence in one's lecture section of General Chemistry

Pearson Achievement Scholarship, Annual

Sept 2015 - Present

- Awarded for academic excellence as an incoming undergraduate

SUMMARY OF QUALIFICATIONS

- Operate and analyze information with Molecular Operating Environment (MOE) software, microplate fluorescence readers, GraphPad Prism, basic R programming, Excel spreadsheets, nuclear magnetic resonance and liquid-chromatography mass spectrometry
- Conduct solid and solution phase peptide synthesis
- Follow through and ensure completion of a task
- Increase productivity and efficiency to achieve goals
- Study data for meaning and solutions
- Model behavior and concepts for others
- Explain difficult ideas and complex topics
- Communicate well with diverse groups
- Develop rapport easily with groups of people

PENDING COURSEWORK

BIOL 331: Synthetic and Cell Biology, *Pending Completion Dec 2018*

BBMB 326: Molecular Biology, *Pending Completion Dec 2018*

BBMB 324: Biophysics, *Pending Completion Dec 2018*

BIOL 371/PSYCH 347: When is science unreliable?, *Pending Completion Dec 2018*

BIOL 205: Genetics Laboratory, *Pending Completion May 2019*

CHEM 401: Chemistry Seminar, *Pending Completion Dec 2018*

RESEARCH EXPERIENCE

Undergraduate Research Student, Götz Lab

May 2017 - Present

Whitman College, Walla Walla, WA

- Completed organic peptide synthesis pathways of tetrapeptide proteasome inhibitors via solution phase and solid phase peptide synthesis
- Determined presence and purity of final compounds by utilizing nuclear magnetic resonance and liquid chromatography-mass spectrometry
- Analyzed the inhibitory potency of final compounds through fluorescent kinetic proteasome assays with a BioTek FLx800 microplate fluorescence reader and GraphPad Prism

- Modeled inhibitors with Molecular Operating Environment software to elucidate binding in the proteasome active site
- Managed an unambiguous laboratory notebook by keeping thorough and accurate notes so research was logged and could be referenced by future students
- Trained new research students with lab procedures by demonstrating reaction techniques and overseeing their initial work and analysis

TEACHING EXPERIENCE

Teaching Assistant, Organic Chemistry II Lab

Sept 2018 - Dec 2018

Whitman College Chemistry Department, Walla Walla, WA

- Supervised 11 lab students to ensure their adherence to appropriate laboratory safety procedures and techniques
- Prompted students to think critically about lab procedures and mechanisms by asking leading questions to further their learning
- Aided students in completing organic reaction procedures by clearly answering questions and monitoring their technique
- Instructed students in completing nuclear magnetic resonance, infrared radiation spectroscopy, and gas chromatography analysis by demonstrating proper protocols

LEADERSHIP EXPERIENCE

Resident Assistant, Jewett Hall

Jan 2017 - Dec 2017

Whitman College Residence Life, Walla Walla, WA

- Maintained the confidentiality of all residents, following FERPA requirements and engaged honestly and with integrity while working with students
- Mediated conflict and distributed section responsibilities using leadership skills to develop a cohesive resident community for 30 students
- Organized and marketed weekly programs utilizing creativity and campus resources to provide residents with opportunities for learning, relaxation, and socialization
- Collaborated with a team of 7 staff members through weekly meetings and cooperative program planning to foster a cohesive residence hall community

Fundraising Chair, Kappa Alpha Theta Sorority

Jan 2018 - May 2018

Whitman College, Walla Walla, WA

- Spearheaded fundraising events for Kappa Alpha Theta's national philanthropy, Court Appointed Special Advocates (CASA) by organizing and delegating tasks
- Communicated with local businesses regarding donations by speaking with managerial staff and providing information about CASA and fundraising events
- Accounted for all funds raised during the primary fundraising event so that CASA representatives could be presented with a final \$14,000 donation

PUBLICATIONS

Manuscript Pending: "Peptidic oxindole macrocycles as inhibitors of the human 20S proteasome"

PRESENTATIONS

Poster and Oral Presentations:

“Synthesis and evaluation of macrocyclic carfilzomib analogs as inhibitors of the human 20S proteasome”

- American Chemical Society national meeting, Orlando, FL; *Pending Completion March 2019*
- Volcano Conference annual meeting, Eatonville, WA; *Pending Completion March 2019*
- Whitman Undergraduate Conference, Walla Walla, WA; *Pending Completion April 2019*

SERVICE

Spring Service Trip: Urban Education, Whitman College

Mar 2016

Portland, OR

- Engaged with multiple nonprofit organizations through meetings and informational sessions to increase knowledge and understanding of urban education
- Volunteered with a variety of urban schools by rehabilitating school gardens and assisting students with assignments to develop a deeper understanding of diverse educational philosophies
- Dissected theories of urban education by thinking critically among peers and brainstorming in order to develop strategies for improvements and impact

Volunteer, Changing Rein Equine Assisted Activities and Therapies

July 2013 - Aug 2016

Graham, WA

- Guided horses and riders with physical support and verbal encouragement in order to maintaining a safe and constructive riding environment
- Developed clear and adaptable communication skills while directing disabled riders to maximize the efficacy of the riders' experience
- Performed weekly schooling and exercising sessions for the horses to improve their behavior, motion, and ability to interact safely with disabled riders

Volunteer, The Storytime Project

Jan 2017 - May 2017

Walla Walla, WA

- Facilitated elementary students' engagement with reading through weekly reading sessions to enhance students' reading skill and interest

ACTIVITIES

Club Tennis

Sept 2015 - May 2016

Walla Walla, WA

Challah for Hunger, Shift Leader

Sept 2016 - May 2017

Walla Walla, WA

- Led weekly bread-making meetings with other club members so that challah could be sold and funds donated to the Blue Mountain Action Council food bank

Kappa Alpha Theta

Sept 2015 - Present

Walla Walla, WA

- Served on the Member Development Committee for one year by attending weekly meetings to discuss and alleviate chapter issues and members' hardships
- Participated actively in philanthropy through campus service projects and leadership in the chapter's philanthropic endeavors to enhance the positive impact of the chapter
- Organized educational events for the chapter to promote member growth, sisterhood, and empowerment

REFERENCES

Dr. Marion Götz, Associate Professor

Department of Chemistry

Whitman College

(509) 527-5957

gotzmg@whitman.edu

Relationship: Professor and research advisor for 2 years

Dr. Daniel M. Vernon, Arthur G. Rempel Professor of Biology, BBMB Program Director

Department of Biology, Biochemistry Biophysics and Molecular Biology program

Whitman College

vernondm@whitman.edu

Relationship: Professor

Dr. Britney Moss, Assistant Professor

Biochemistry Biophysics and Molecular Biology program

Whitman College

(509) 527-5306

mossbl@whitman.edu

Relationship: Professor and academic major advisor for 2 years

Nancy Tavelli, Associate Dean of Students and Director of Residence Life and Housing

Residence Life and Housing

Whitman College

(509) 527-5297

tavelln@whitman.edu

Relationship: Employer