**Curriculum Vitae**

**Raashed Raziuddin**

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**EDUCATION**

Cornell University at Weill Medicine New York, NY

Ph.D. Pharmacology 2021-Present

Cornell University GPA: 3.732/4.0 Ithaca, NY

B.S. Biological Engineering 2018

**PATENTS & PUBLICATIONS**

Tumor Microenvironment-Targeted PROTAC Nanoparticle Self-Assembly Broadly Predicted By Structural Descriptors

In Submission

Methods and Compositions for Anaerobic Bacterial Fermentation

Application No.WO2020237009A8

**RESEARCH EXPERIENCE**

WEILL CORNELL/MEMORIAL SLOAN KETTERING, NEW YORK, NY *2021-Present*

**Pharmacology Graduate Student**

* Delivering P-selectin targeting nanoparticle-encapsulated PROTACs across the blood brain barrier into brain metastases
* Characterizing intracellular pharmacokinetic differences between nanoparticle and free drugs through LC-MS/MS
* Studying the induction of P-selectin in the tumor microenvironment via IL-6 *trans* signaling
* Characterized an *in vitro* 3D culture system embedded with sensors to detect the development of a hypoxic tumor core
* Conducted chemical radiolabeling and PET/CTbiodistribution studies of senescent pancreatic cancer treatments

EVELO BIOSCIENCES, CAMBRIDGE, MA *2018-2021*

**Fermentation Associate Process Development Engineer**

* Operated anaerobic fermentations at multiple scales of bioreactors: 16 250mL, 4 1L, 4 15L, and 200L bioreactors
* Analyzed changes in metabolism using steady-state chemostat and perfusion experiments and matlab modeling
* Generated point and click graphical interfaces in R Shiny to compile machine-raw data and rapidly generate plots
* Developed and tech transferred a Phase II/III Process for lead microbial clinical candidate EDP1815 in inflammatory indications of psoriasis and atopic dermatitis
* Developed a Phase I Process for lead extracellular vesicle candidate EDP1908 in oncology indications

CORNELL UNIVERSITY, ITHACA, NY *2017-2018*

**DeLisa Lab Undergraduate Researcher**

* Developed intracellular DARPins to target post-translationally modified proteins in the reducing cellular environment
* Focused on developing DARPins for phosphorylated ERK2, a common cancer target
* Characterized engineered DARPins using chromatography, SPR, and ELISAs

CORNELL UNIVERSITY, ITHACA, NY *2016-2017*

**Ke Lab Undergraduate Researcher**

* Engineered a thermostable Type I CRISPR-Cas3 protein assembly system for gene editing in mammalian cells
* Optimized stoichiometric assembly of proteins using site-directed insertion of Shine-Dalgarno and RBS sequences
* Probed metallic cofactors and efficient catalysis using denaturizing Urea-PAGE

CORNELL UNIVERSITY, ITHACA, NY *2015-2016*

**Lucks Lab Undergraduate Researcher**

* Optimized orthogonal sense-antisense RNA pairs for orthogonal control of genetic circuits
* Analyzed single-cell kinetics of genetic activation/inhibition using flow cytometry

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL, WORCESTER, MA *2014-2017*

**Witman Lab Paid Volunteer**

* Isolated, identified, and rescued mutant genes causing flagellar defects in the model alga, *C. reinhardtii*.
* Investigated intraflagellar transport through IF, TE, and TIRF microscopy

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MA *2014*

**Weiss Lab iGEM Member**

* Performed experiments in miRNA gene regulatory mechanisms to diagnose Alzheimer’s-associated cells
* Studied localization of an engineered B-Cell Receptor to the cell membrane using confocal microscopy

**SUMMER EXPERIENCES**

PROSPECT BIO, PALO ALTO, CA *Summer 2017*

**Paid Intern**

* Conducted experiments to identify the best biosensor in a proprietary library for detecting fraud in wine distribution
* Automated high-throughput hardware and software workflows to scan through hundreds of 96-well plate experiments

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL, WORCESTER, MA *Summer 2016*

**Mello Lab Paid Volunteer**

* Probed the contribution of a DNA methyltransferase in epigenetic regulation using RNAi
* Utilized fluorescence microscopy to analyze the maternal transfer of genetic traits in C. elegans

**UNIVERSITY EXPERIENCES**

WEILL CORNELL/MEMORIAL SLOAN KETTERING, NEW YORK, NY *2023*

**Junior Licensing Fellow**

* Facilitating integration of 3rd party AI companies into research and commercialization workflows
* Drafted patent claims, invention assessments, and commercialization strategies of investigator inventions
* Identified boutique dermatology customers and manufacturers for a lymphedema product

WEILL CORNELL/MEMORIAL SLOAN KETTERING/ROCKEFELLER, NEW YORK, NY *Fall 2022*

**Teaching Assistant for Bioventure Entrepreneurship Course**

* Aided graduate students and doctors in developing business plans for patented technologies from Weill Cornell’s, Memorial Sloan Kettering’s, and Rockefeller’s licensing offices
* Personally mentored 3 out of the 5 finalist teams and facilitated their start-up activities beyond the class

CORNELL UNIVERSITY, ITHACA, NY *Fall 2017*

**Teaching Assistant for CHEME 2880: Biomolecular Engineering**

* Setup and developed the chemical engineering department’s first pilot and lab scale bioreactors
* Guided junior chemical engineering students in the transformation and purification of sfGFP in *E. coli*

CORNELL UNIVERSITY, ITHACA, NY *2017-2018*

**Resident Advisor for Ecology House**

* Act as emotional and academic guide to students undergraduate and graduate students
* Developed educational programs to engage the community in social and environmental discussion