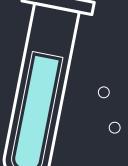
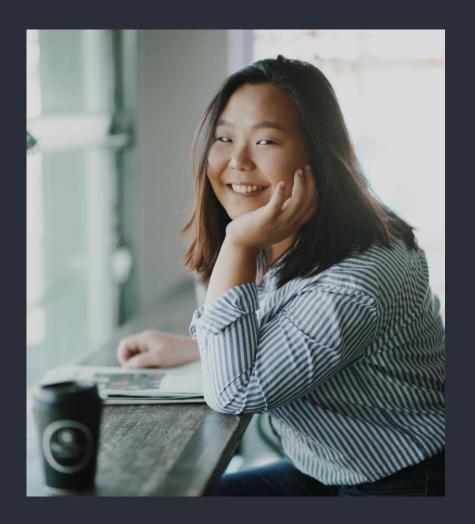


ALIDA BIOSCIENCES... HYELIN CHOI



Research Associate/Associate Scientist Applicant





Hyelin Choi

- Hometown: Albuquerque, NM
- Senior in MCDB at CU Boulder
- Enjoy cooking & drawing

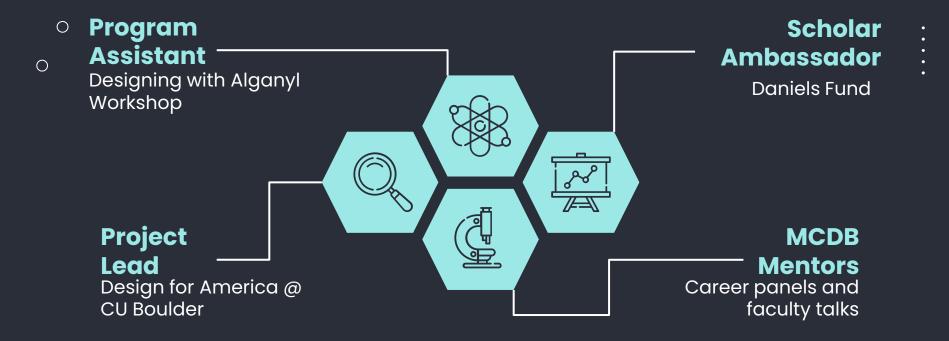




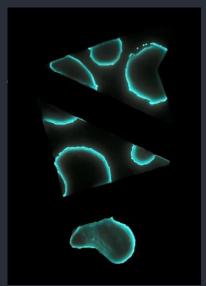
RELEVANT EXPERIENCES

0 2020 **2021 - Present 2021 - Present** 2021 **Lab Technician** at **Teaching Undergraduate** Lab Assistant at **OIT CU Boulder** Researcher **Assistant** for TriCore Research MCDB 1171 Laboratory Boulder, CO Living Matter Lab at CU Boulder Boulder, CO ABQ, NM

VOLUNTEER WORK



BIODESIGN RESEARCH

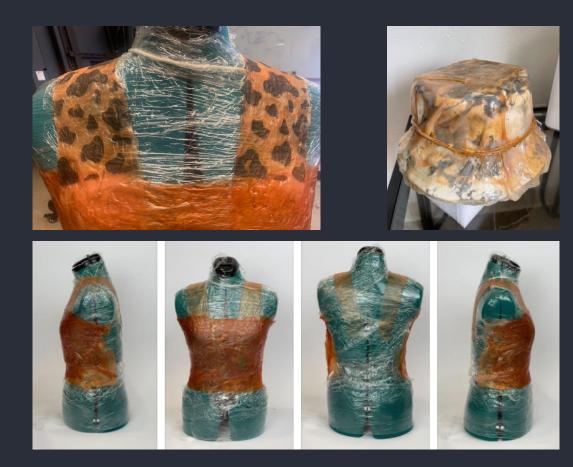








Albiivirbio fischeri



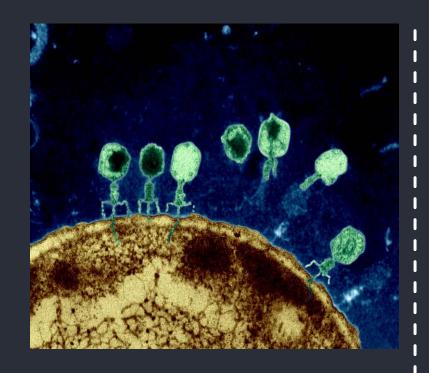
RESEARCH

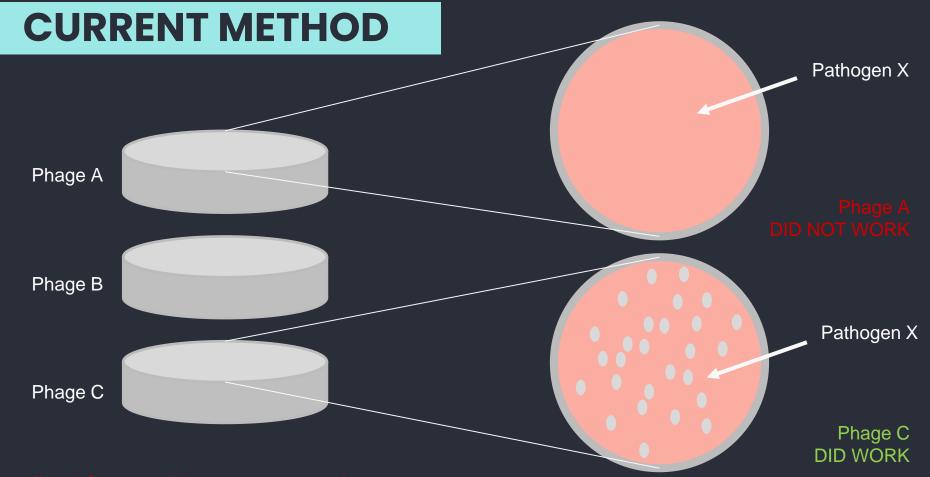
Living Matter Lab @ CU Boulder

ENRICHSEQ

Finding Therapeutic Phages using Enrichment

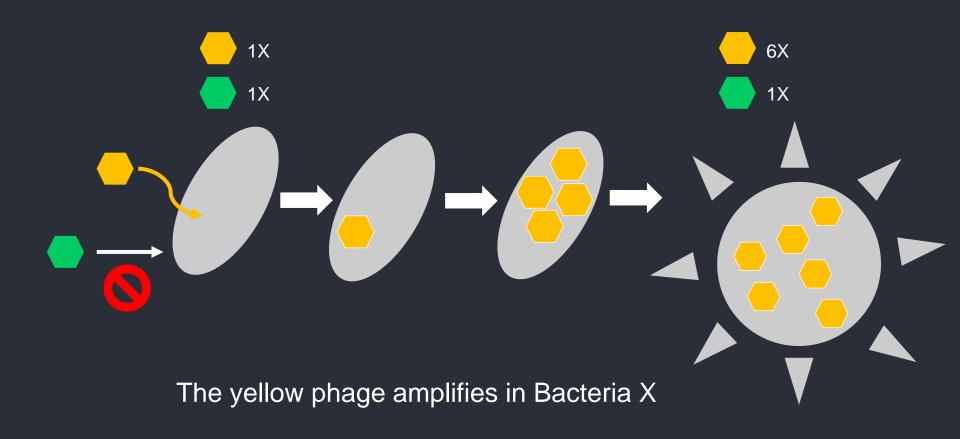
- Based on Dedrick et al 2019 antibiotic resistance
- Computation method to create efficient alternative to 1 by 1 phage testing
- Theory most virulent phages aggressively overgrow with target bacteria





Problem: ad hoc 1 v 1 testing

THEORY MECHANISM



EnrichSeq Process

1st Add Phage

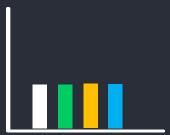


2nd Add Bacteria



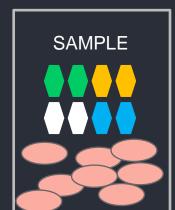
3rd Sequence

- t = 0
- t = final

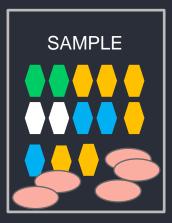


SAMPLE

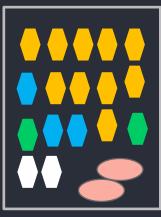












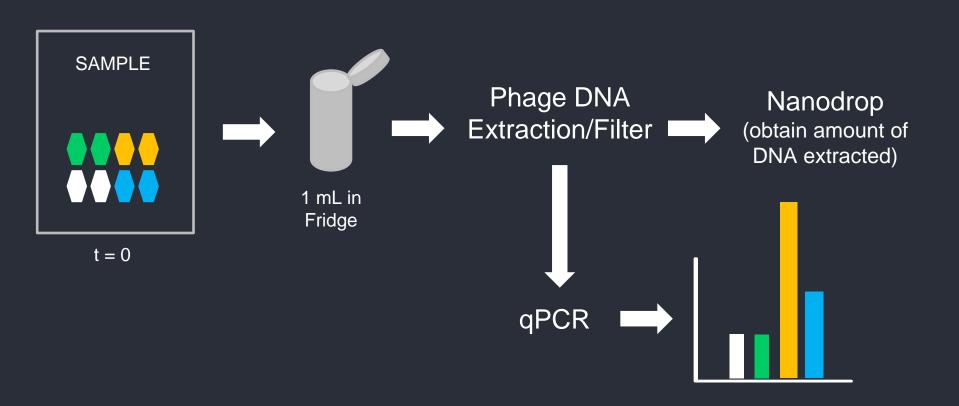
t = 0

t = 1

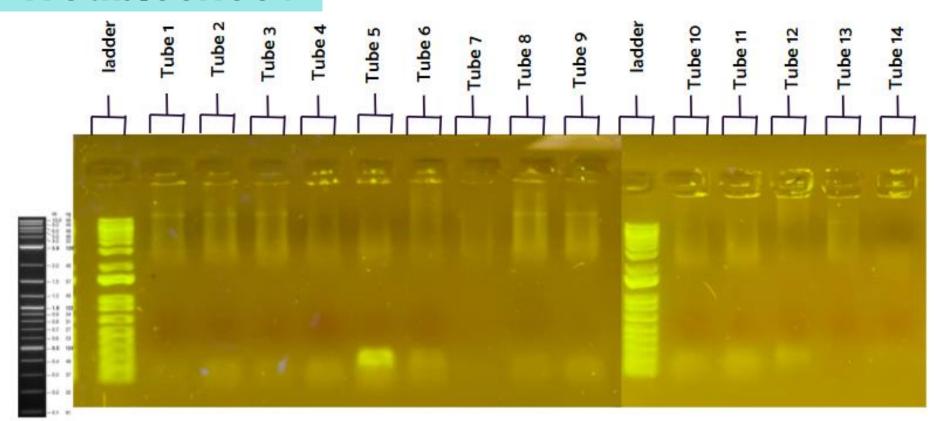
t = 2

t = FINAL

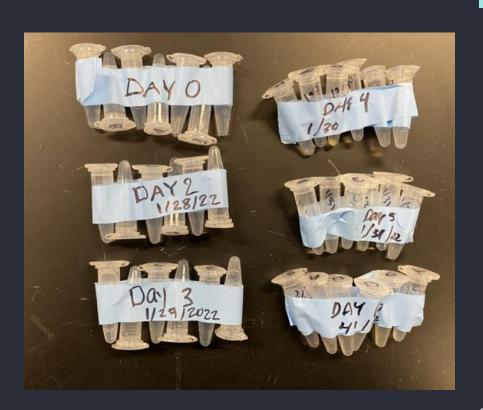
Validation & Iteration



Troubleshoot

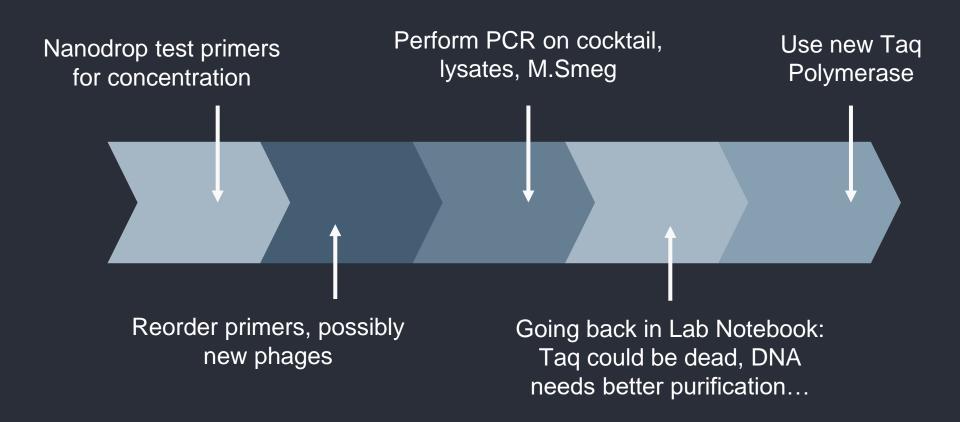


Caveats



- No access to qPCR
- No consistent pos/neg controls
- No consistent M.Smeg
- Gel streaks/ unreliable results
- Human errors from two different researchers
- Time restriction due to week commitment for each enrichment

EnrichSeq Troubleshoot





QUESTIONS?