

## CALIFORNIA STATE SCIENCE FAIR 2013 PROJECT SUMMARY

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Name(s)	Project Number
Keoni K. Gandall	
	J1300
Project Title	
Engineering Pink Salt	
Objectives/Goals Abstract	
Create an open Halobacteria plasmid with do-it-yourself (DIY) methods	
Methods/Materials	
Materials Stroing	
E. coli K12 ER2267. Halobacteria NRC-1	
Plasmids-	
poreen, pbelobacii, pocia, poca/ + insen,	
Chemicals / media	
DMSO, LB agar, Agarose, ethidium bromide, Bromophenol Blue/Xylene Cyar	nol Gel Loading Buffer,
Distilled water, Epsom Salt, PEG 3350 (miralax), LB broth, Halobacteria broth, Ampicillin, chloramphenicol, CaCl	, Halobacteria agar,
Gycerol,	
Tools Electrophoresis how Transilluminator, Power supply, loops, Bunsen burner, pi	nettes water bath
centrifuge, PCR machine, Vortex, refrigerator, freezer,	peties, water bath,
glasses,	
Expandables	
Inoculating loops (plastic), petri dishes, PCR tubes, Centrifuge tubes, Culture tu	ibes, gloves, masks,
Results	, <u>, , , , , , , , , , , , , , , , , , </u>
All polymerase reactions were verified by electrophoresis. The projects DNA comparison of the project of the pr	ould not be because of
Conclusions/Discussion	i colollies were observed.
All of the Polymerase chain reactions worked. The actual DNA could not be ver	rified because of minimal
amount of it.	
However, a streak colony was observed on one of the transformed plates. Since	it was small, and salt
Summary Statement	· · · · · · · · · · · · · · · · · · ·
Creating a shuttle vector for genetically modifying the thrid domain of life, Arc	haea.
Help Received	
Went to LA biohackers for help with ethidium bromide, verification of PCR. Us	sed my own
Everything else I did	ny ran 8 regulations.

Ap2/13