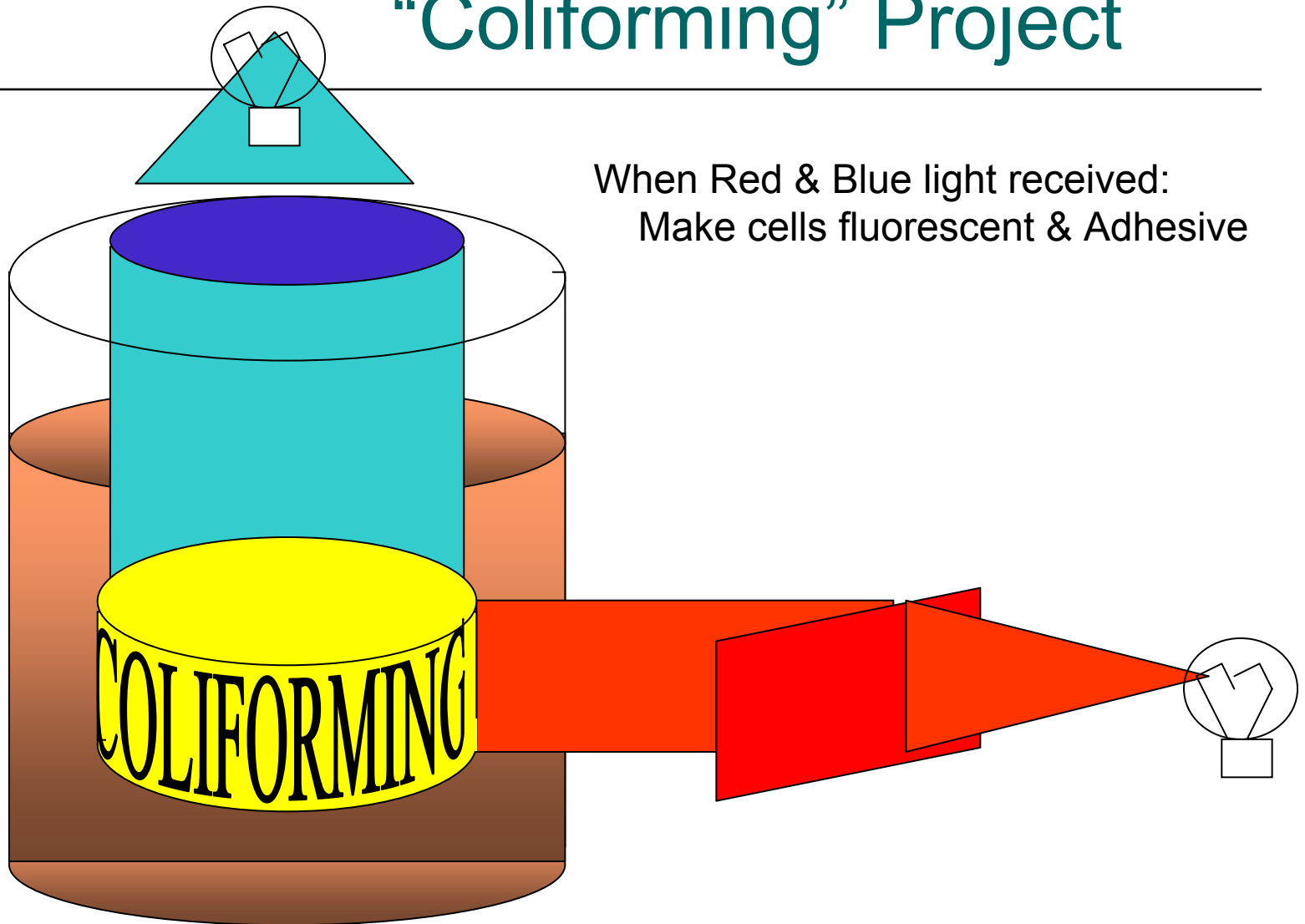


“Coliforming” Project



When Red & Blue light received:
Make cells fluorescent & Adhesive

Project

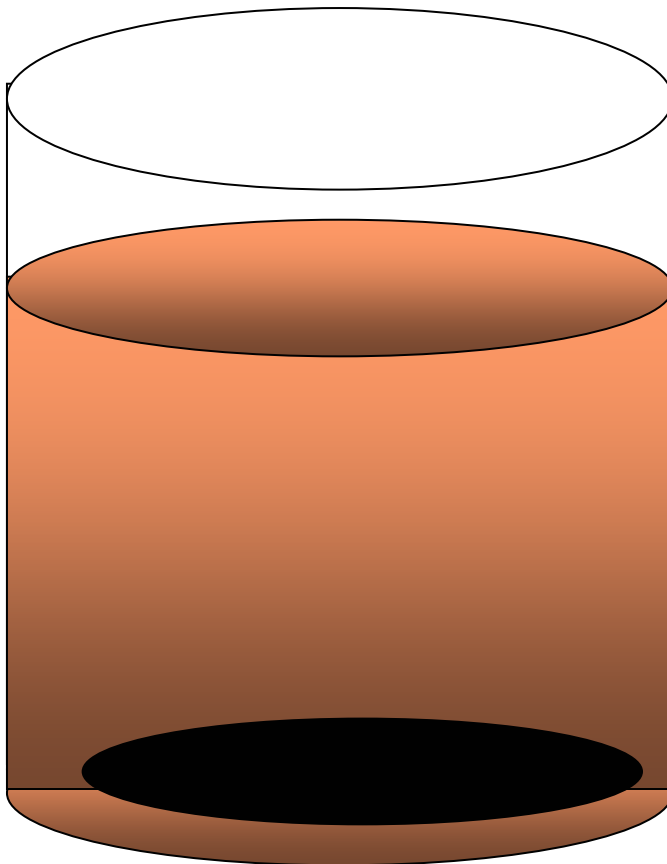
Parts:

- 1) Gas Vesicles (new)

Based on Gvp gene cluster
plasmid provided by

Maura Cannon

(University of Massachusetts, Amherst)



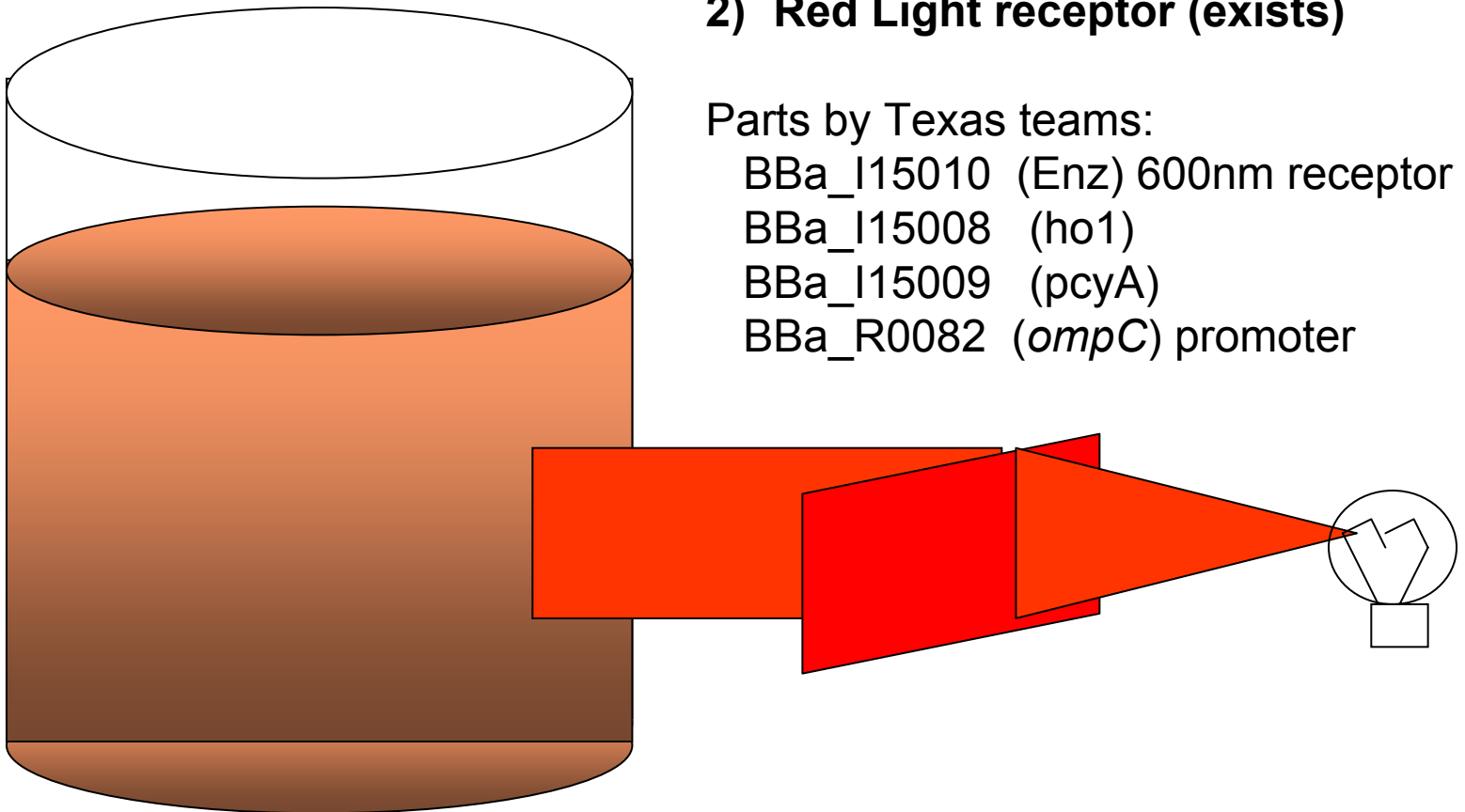
Project

Parts:

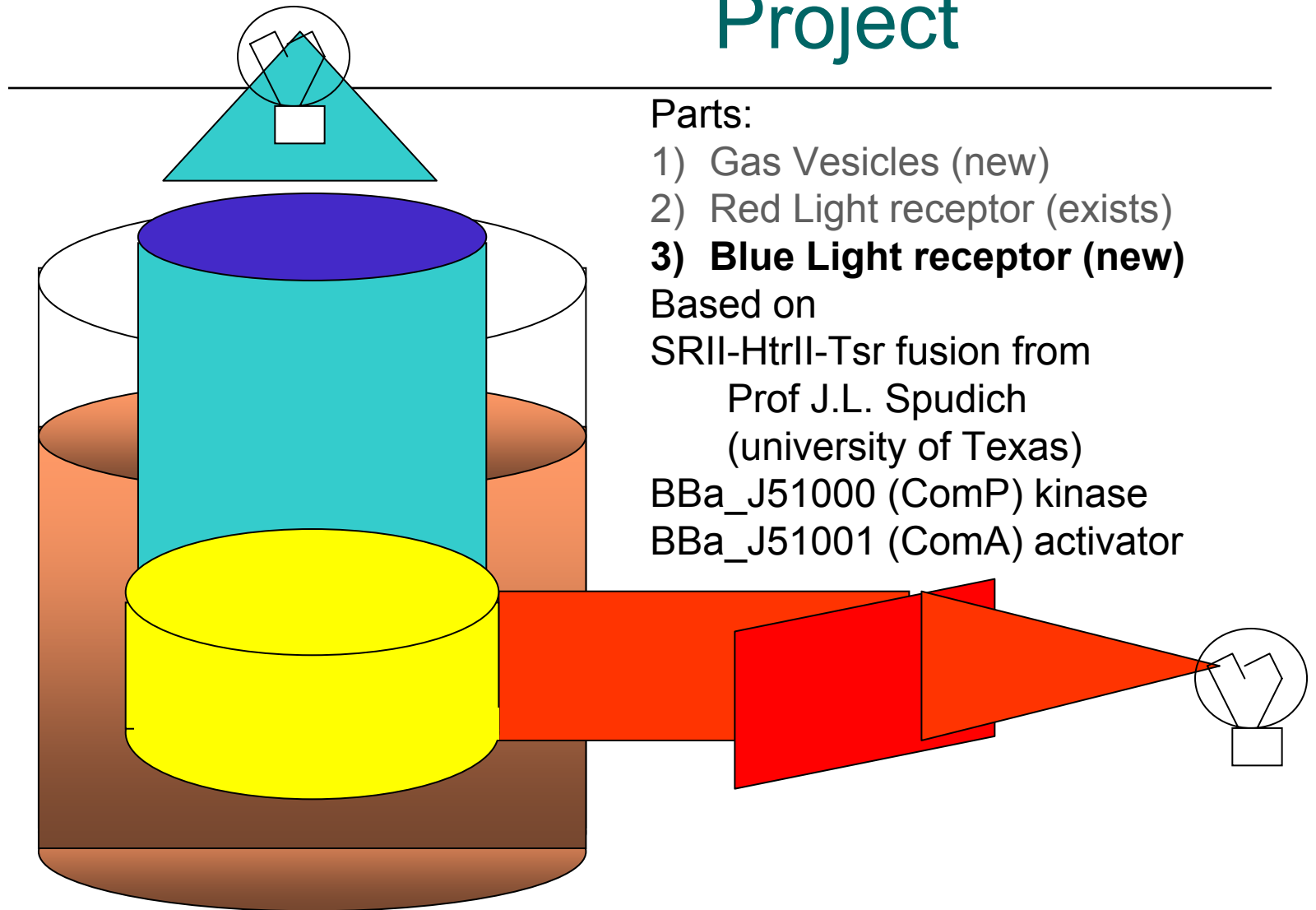
- 1) Gas Vesicles (new)
- 2) Red Light receptor (exists)**

Parts by Texas teams:

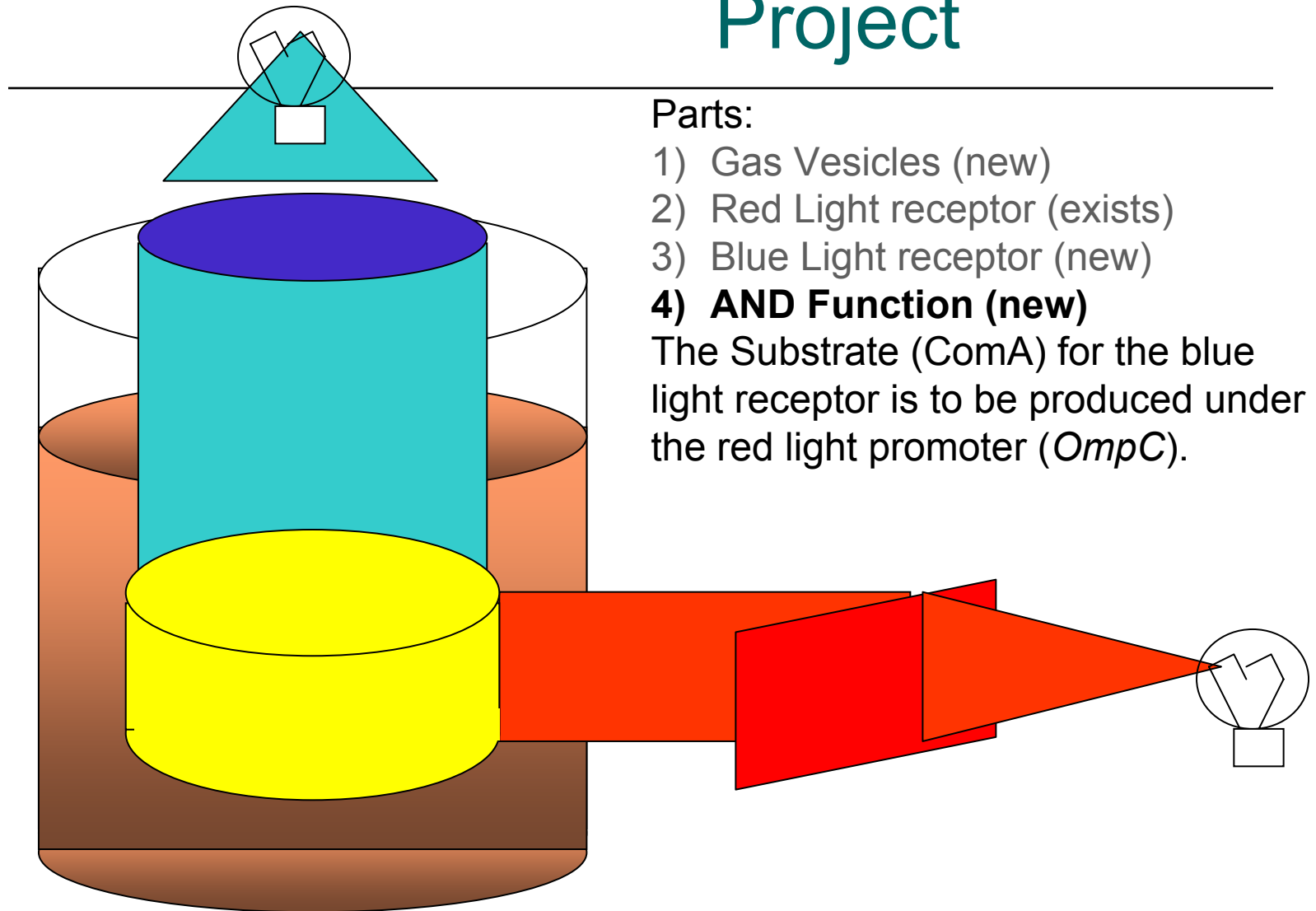
- BBa_I15010 (Enz) 600nm receptor
- BBa_I15008 (ho1)
- BBa_I15009 (pcyA)
- BBa_R0082 (*ompC*) promoter



Project



Project



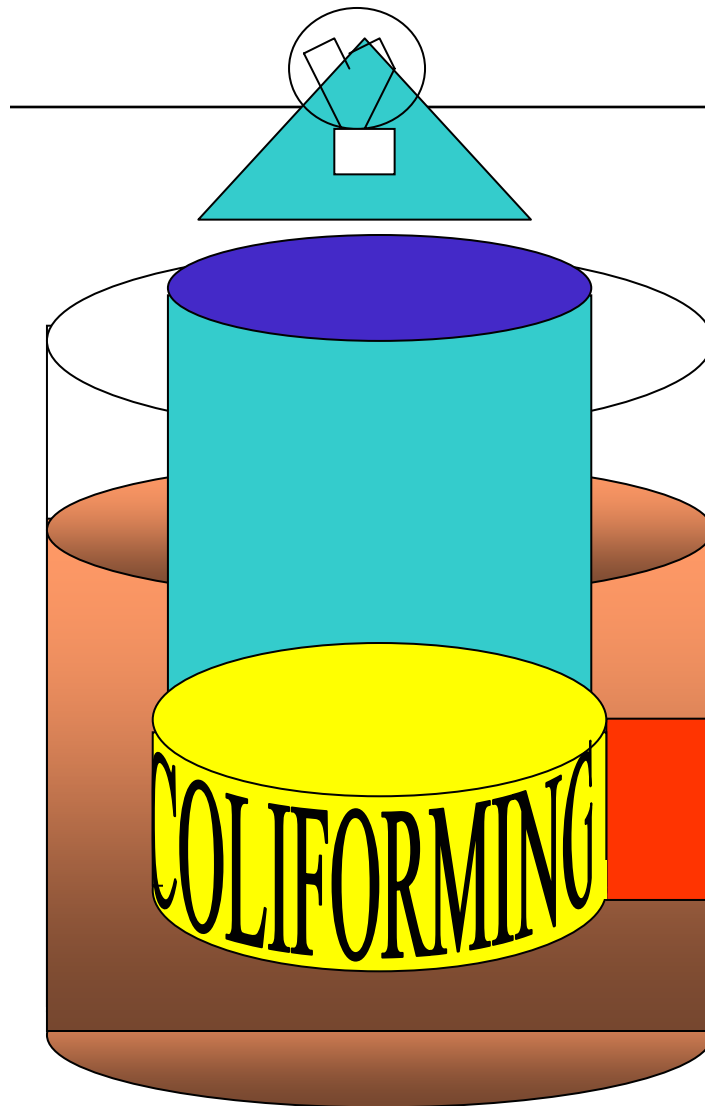
Parts:

- 1) Gas Vesicles (new)
- 2) Red Light receptor (exists)
- 3) Blue Light receptor (new)

4) **AND Function (new)**

The Substrate (ComA) for the blue light receptor is to be produced under the red light promoter (*OmpC*).

Project



Parts:

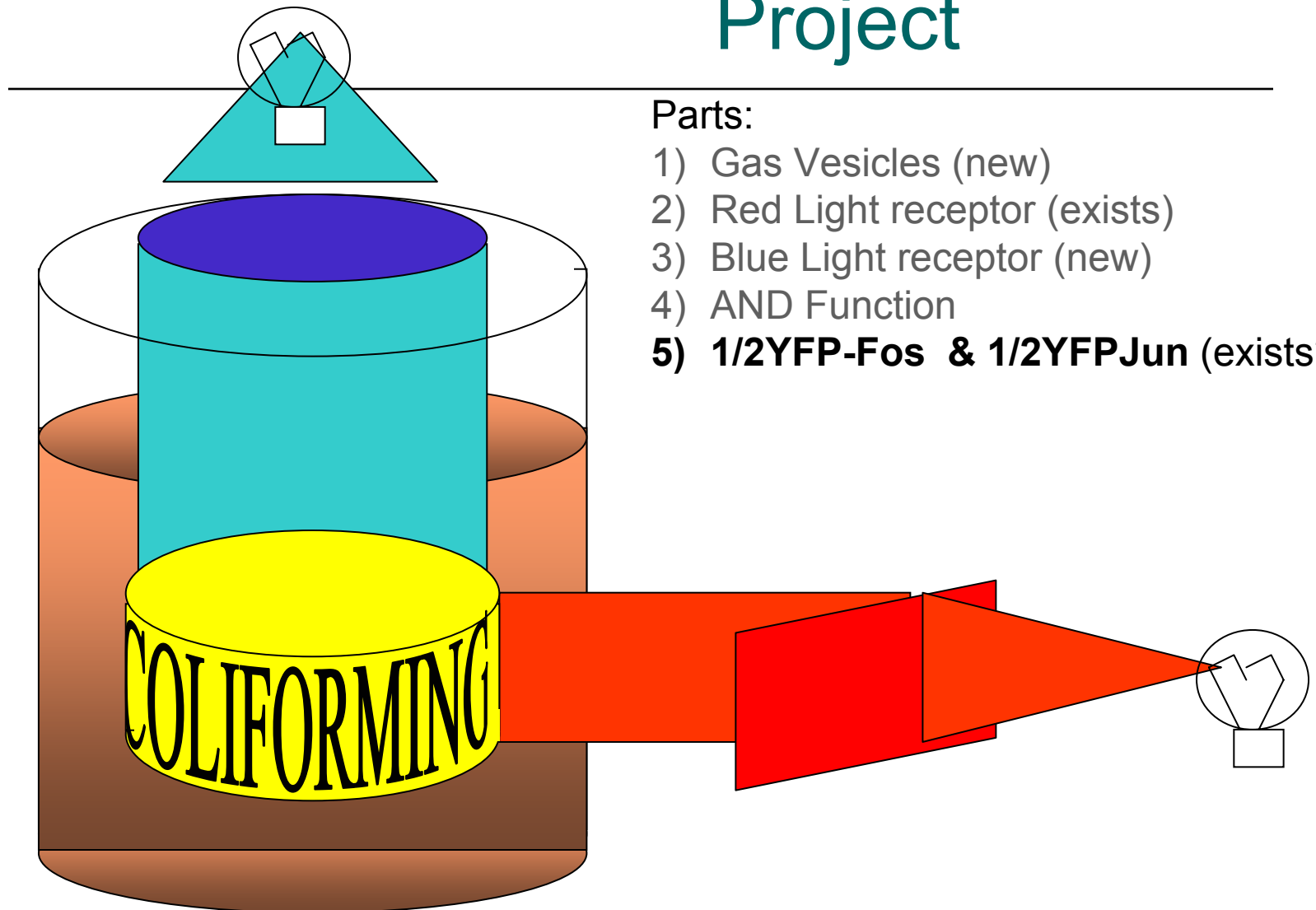
- 1) Gas Vesicles (new)
- 2) Red Light receptor (exists)
- 3) Blue Light receptor (new)
- 4) AND Function
- 5) **1/2YFP-Fos & 1/2YFPJun** (exists?)

Based on PsfA promotor (new) from
Dr Alan Grossman (M.I.T.)
and parts: BBa_J40004 & 40006

Project

Parts:

- 1) Gas Vesicles (new)
- 2) Red Light receptor (exists)
- 3) Blue Light receptor (new)
- 4) AND Function
- 5) **1/2YFP-Fos & 1/2YFPJun (exists?)**



Melbourne University

