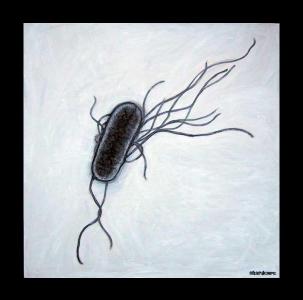
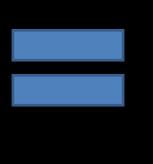
Wi-Fi Colli, v 0.2



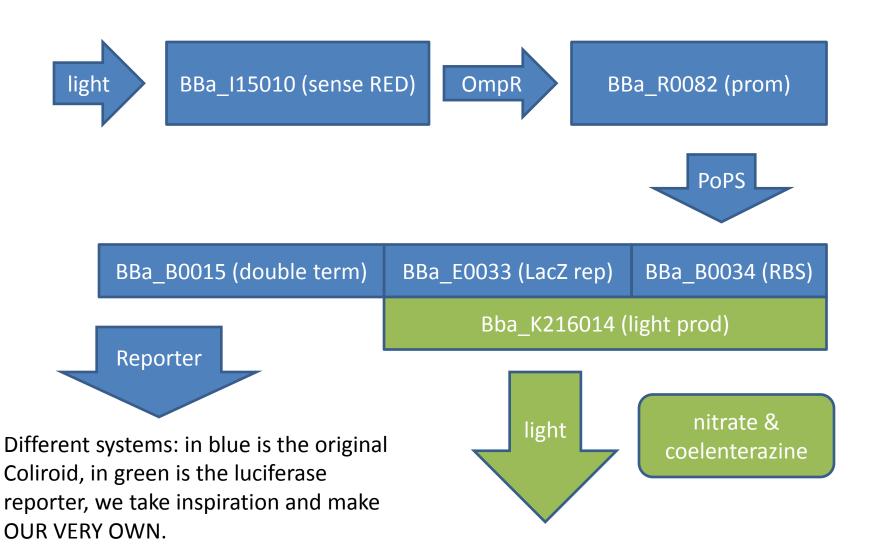




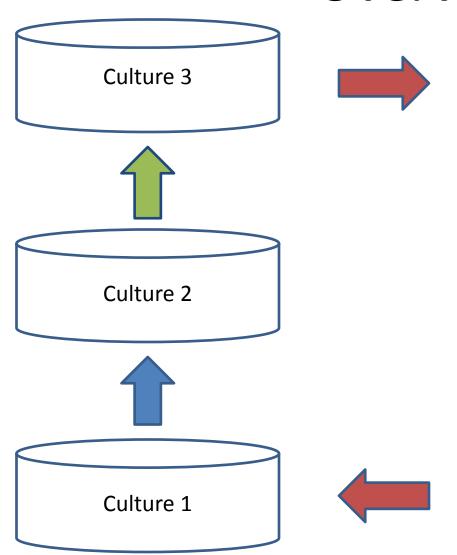




Parts (Available Bricks)

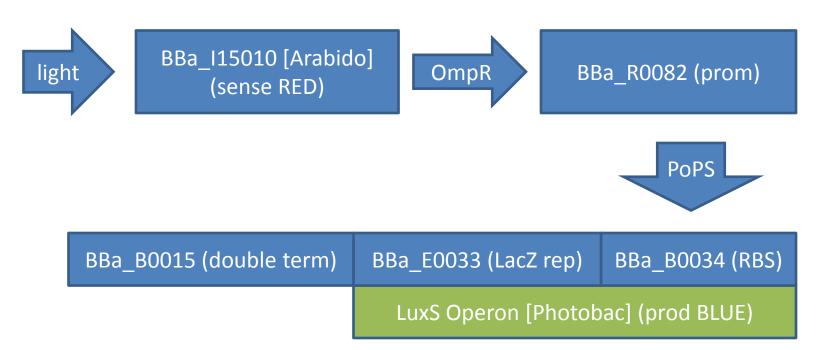


Overview



Telecommunication with bacteria! Information would be passed from one medium to another (indirectly) with no physical contact involved whatsoever; this is impossible with conventional (molecule based) signaling.

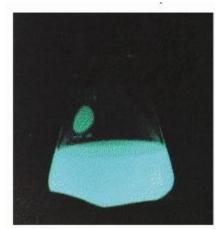
Culture 1



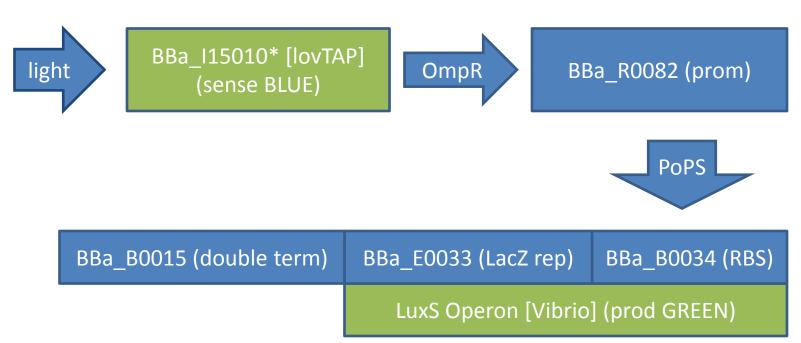


Legend:

Boxes in blue are parts already done Boxes in green are parts that may (or not) exist but must be altered in some way

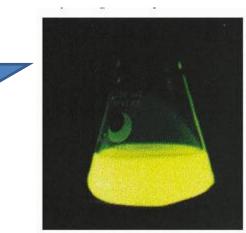


Culture 2



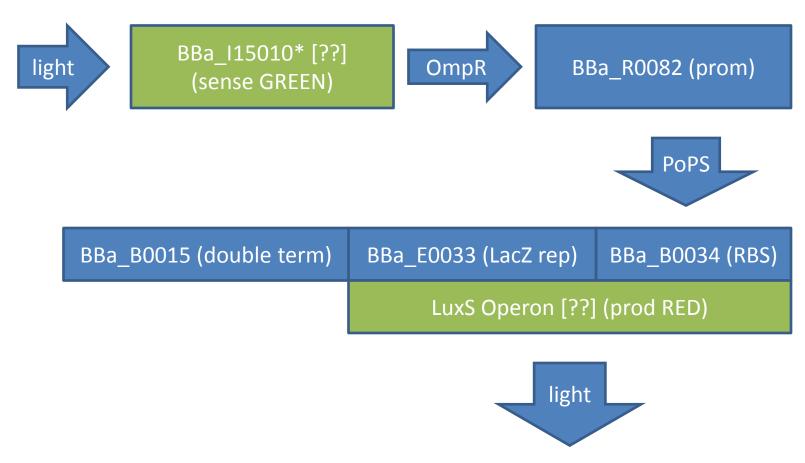


Boxes in blue are parts already done Boxes in green are parts that may (or not) exist but must be altered in some way



light

Culture 3



Legend:

Boxes in blue are parts already done Boxes in green are parts that may (or not) exist but must be altered in some way

Tips & Tricks

- BBa_K216014 contains Luciferase, with GFP via FRET we can produce GREEN
- LuxS Operon contains several genes, two for luciferase-like production, some for color selection [Vibrio fisheri & Photobacterium phosphoreus]
- BBa_I15010 contains a chromophore, it should be alterable...

Tips & Tricks

- Chromophores are modular units: bricks to be replaced
- lovTAP form Lausanne team
- Couple directly chromophore to promoter reconn (Harvard)
- Use modular assembly for luciferase-like with PhyB (Phytochrome B [or A?]) and PIF3 (Phytochrome Interacting Factor 3 [works also with PhyB]): have uberfast response

Tips & Tricks

 Part BBa_K222000 can create luminescence via coelenterozine (?) in with an influx of Ca2+ which is an easier translational signal.