

Design Specifications



Maximize:

- fruit weight
- fruit production
- taste & aroma
- (...)

Minimize:

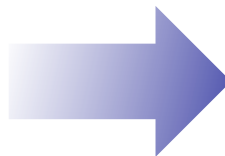
- guaiacol
- hexanal
- methyl salicylate
- (...)

Synthetic Cellular Program

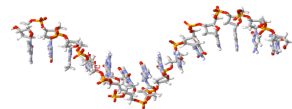
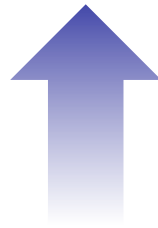
```
if glucose > K1
  ↑ <fruit weight>
else if pH < K2
  ↓ [TSS & TA]
while [U243103] < K3
  [β-caroteno] inhibited
  [lycopene] activated
  [U241789] activated
  (...)
```



Circuit Compiler



Programmed Cells



Genome

010001011110110
101110100001001