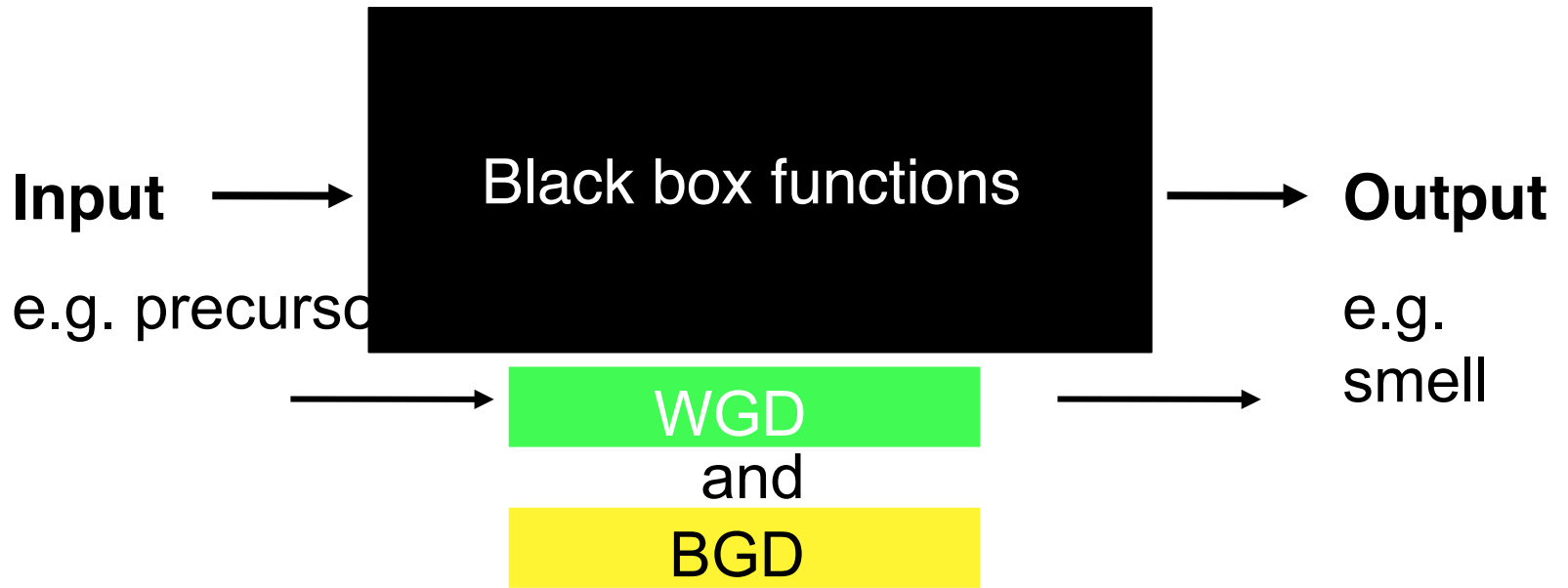


Eau d'coli

N Kuldell for 20.020

Spring 2009

System level description: initial planning



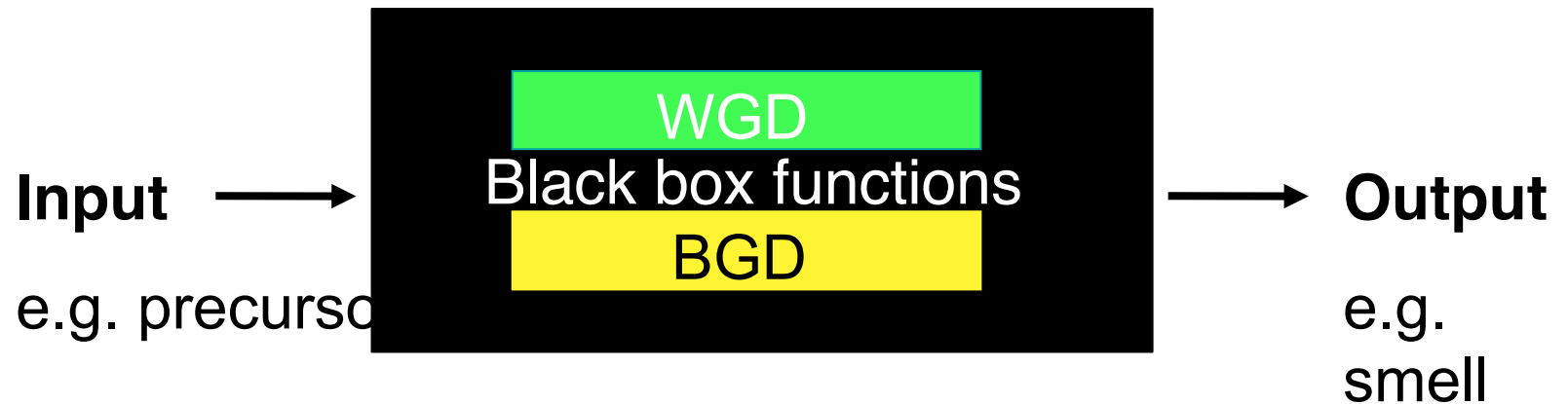
WGD: Wintergreen Generating Device
BGD: Banana Generating Device

System level description: scent production



WGD: Wintergreen Generating Device
BGD: Banana Generating Device

System level description: scent production



WGD: Wintergreen Generating Device
BGD: Banana Generating Device

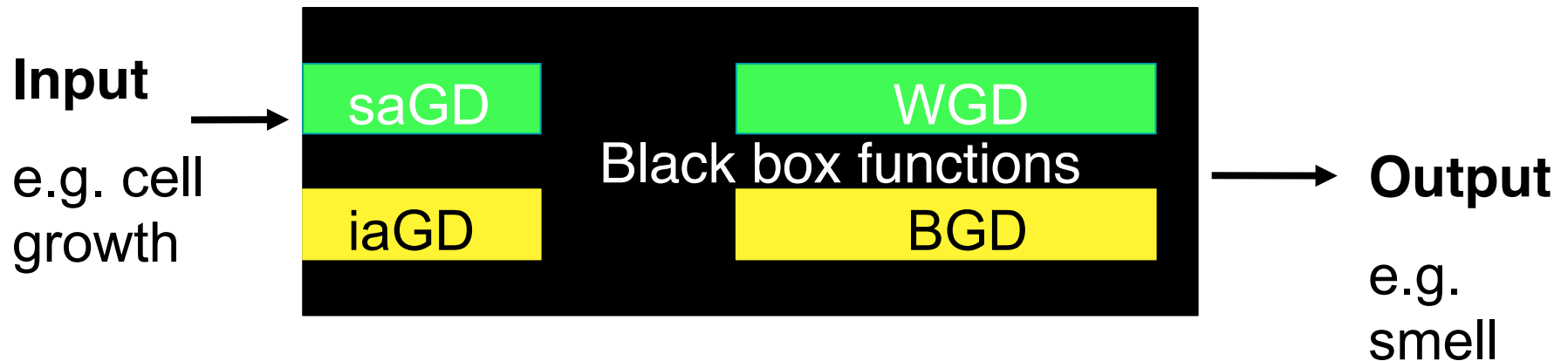
System level description: precursor production



WGD: Wintergreen Generating Device
BGD: Banana Generating Device

saGD: salicylic acid Gen Dev
iaGD: isoamyl alcohol Gen Dev

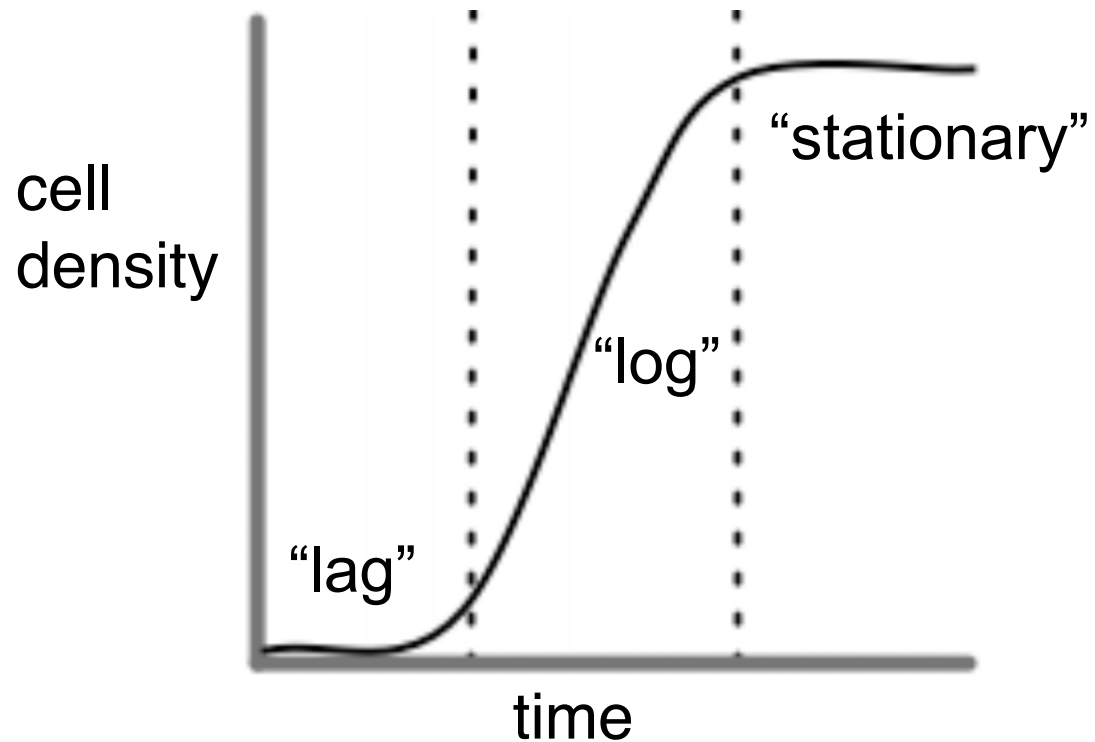
System level description: precursor production



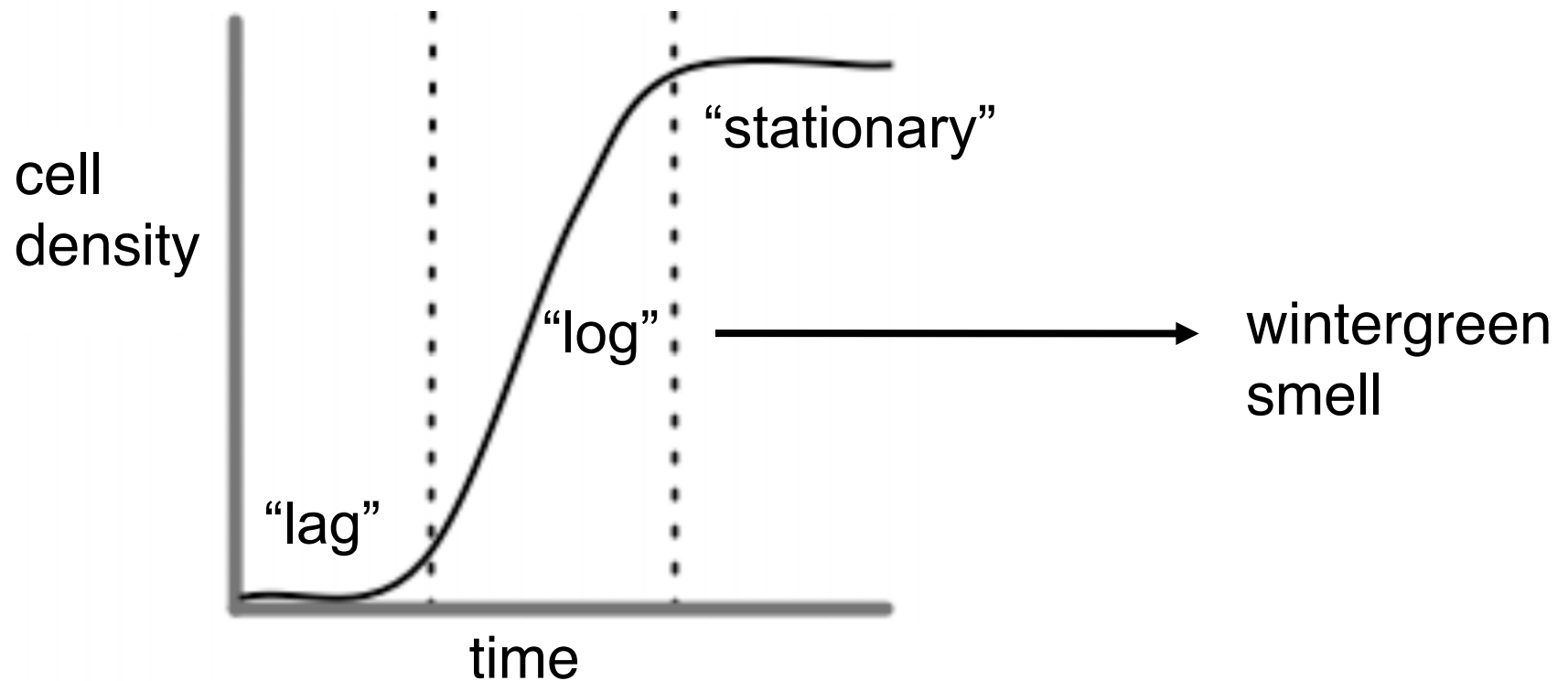
WGD: Wintergreen Generating Device
BGD: Banana Generating Device

saGD: salicylic acid Gen Dev
iaGD: isoamyl alcohol Gen Dev

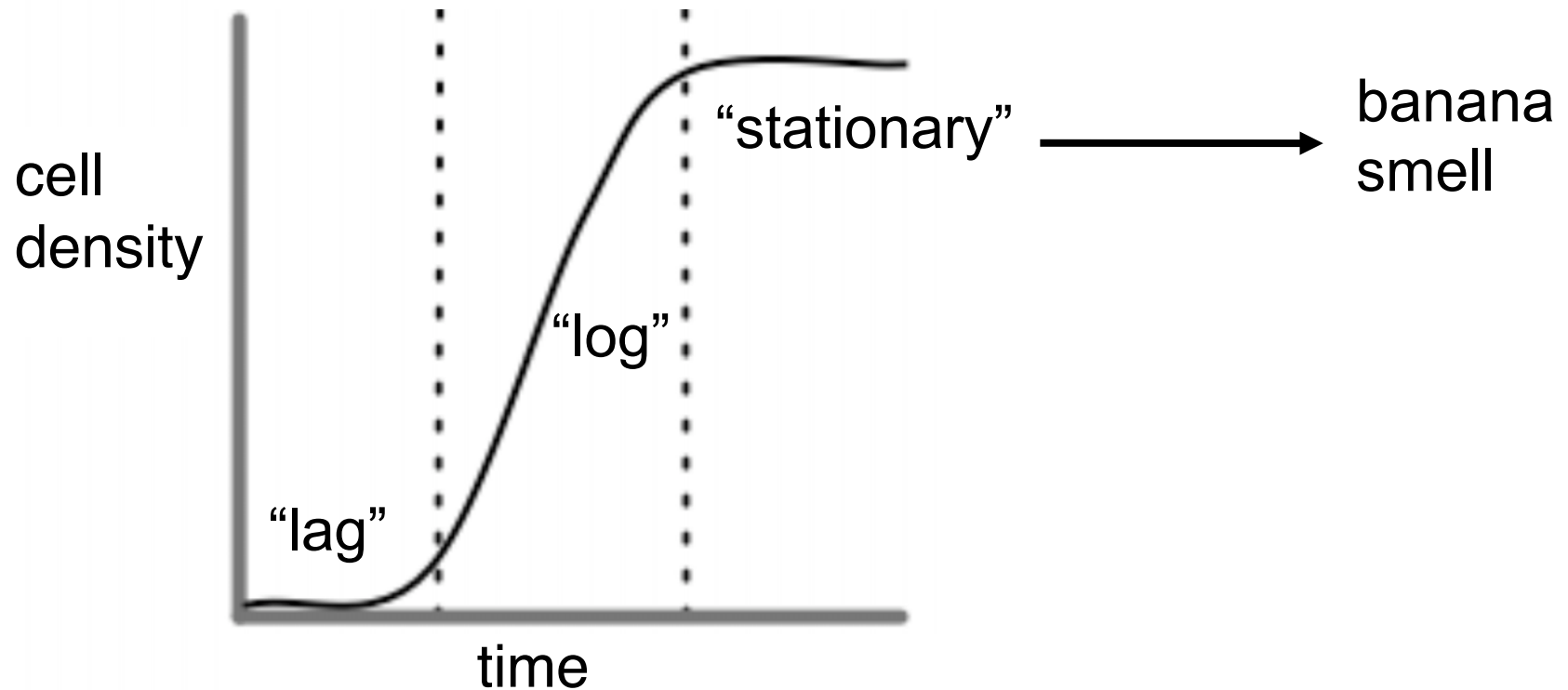
System level description: growth regulation



System level description: growth regulation



System level description: growth regulation

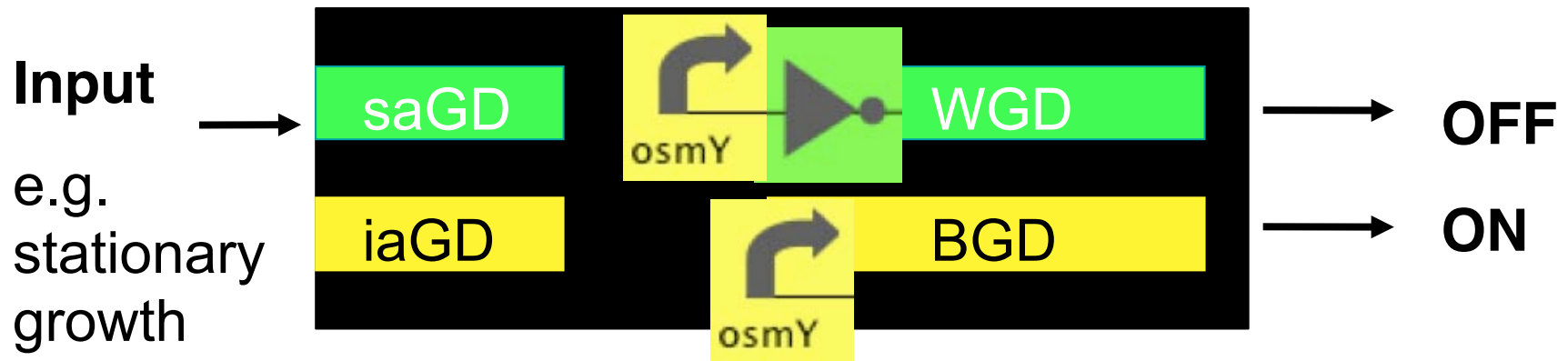


System level description: growth regulation



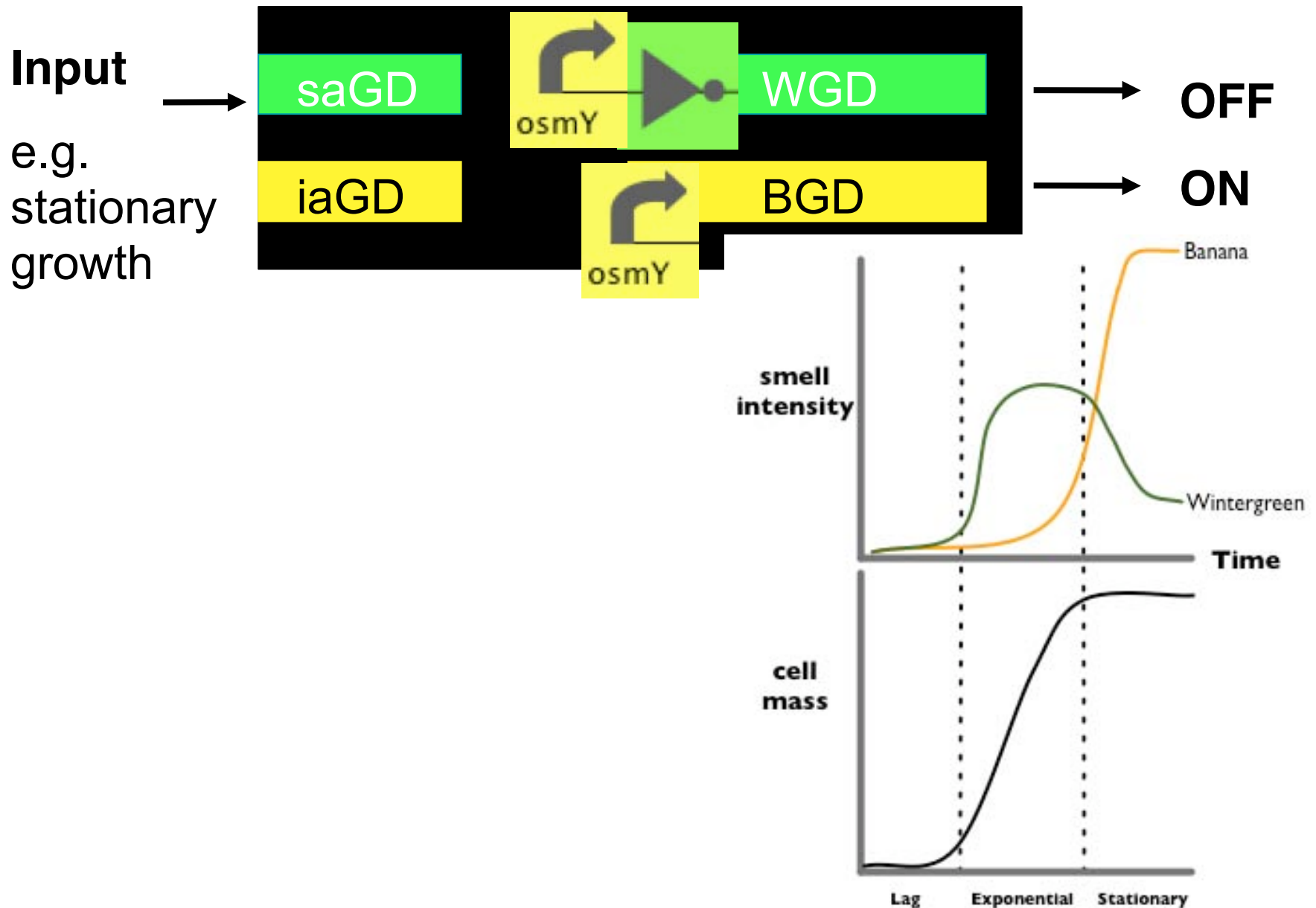
OsmY is a promoter that is only active during stationary phase

System level description: growth regulation

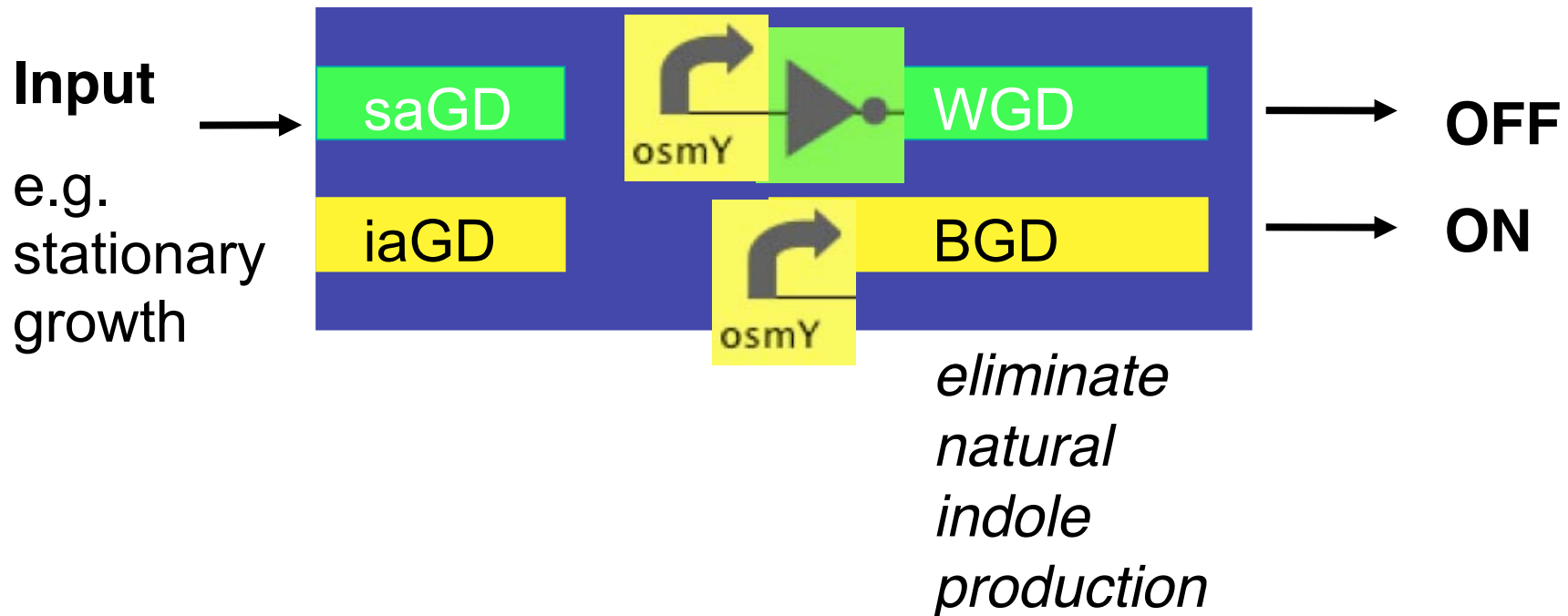


	Stationary phase	Log phase
OsmY	1	0
OsmY+ inverter	0	1

System level description: growth regulation

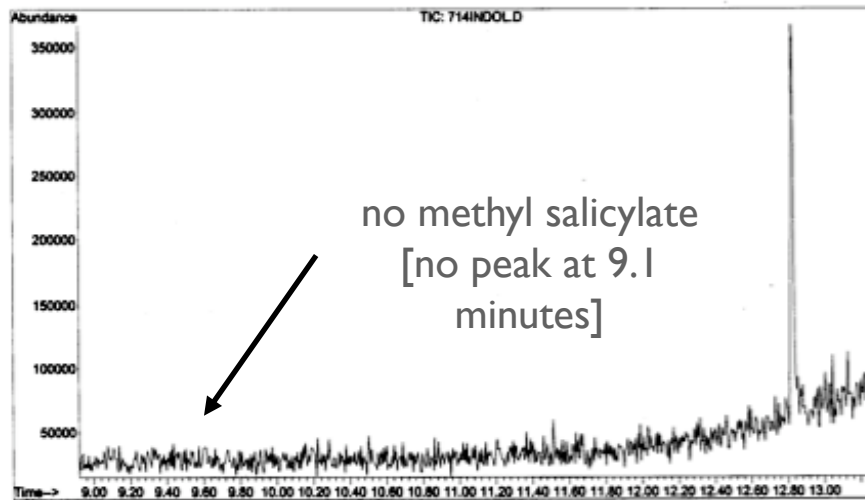


System level description: Chassis modification

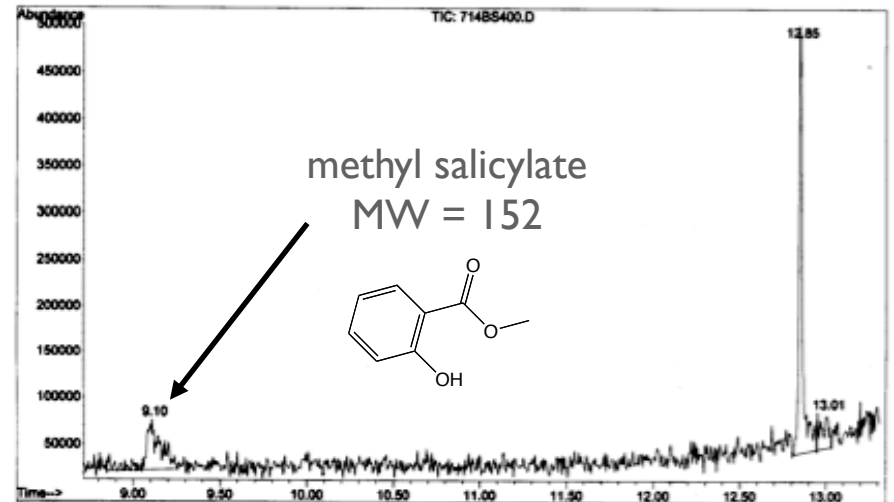


System level test: gas chromatographs

E. coli

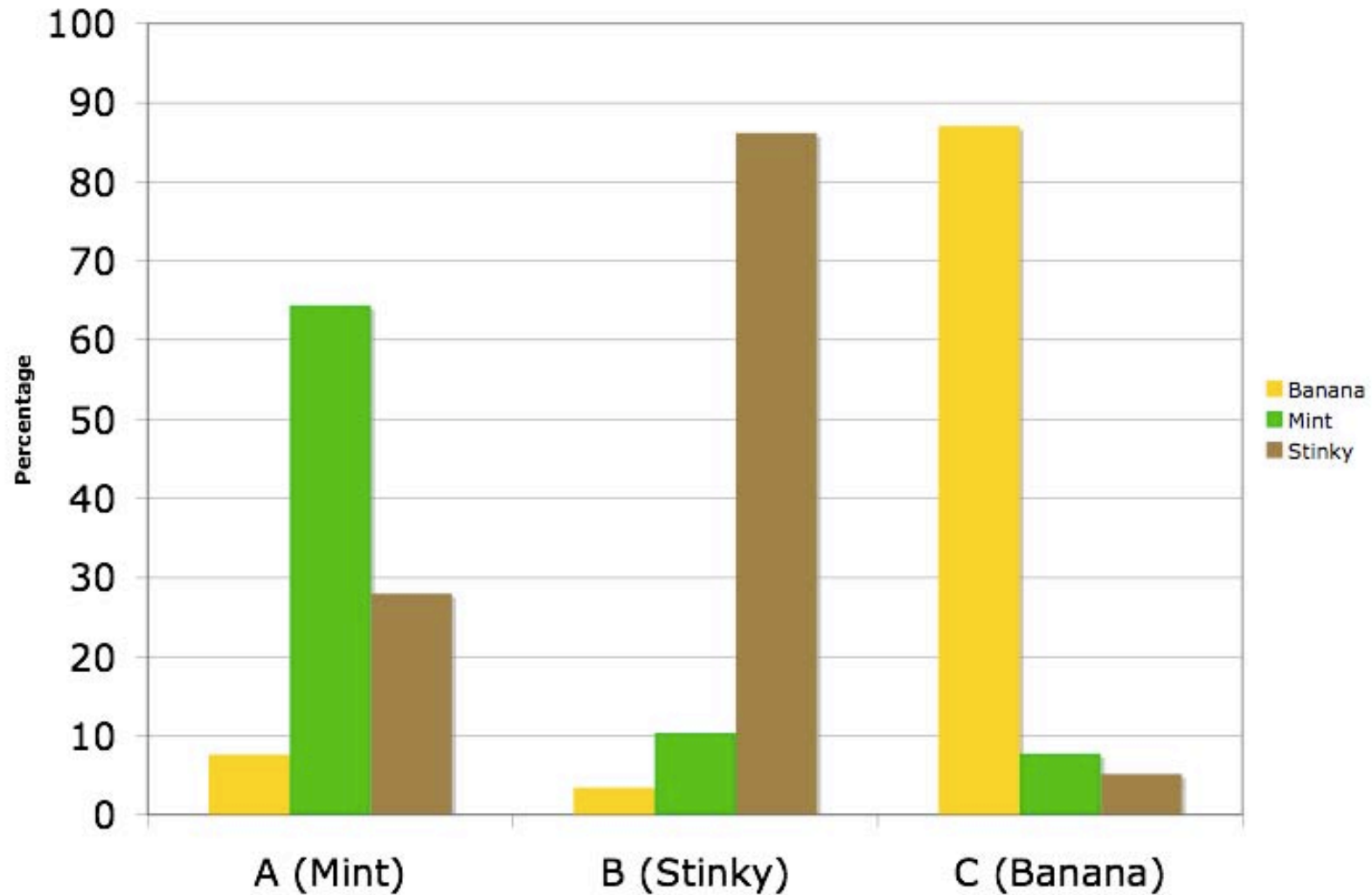


E. coli + precursor (SA) +
WGD



Courtesy of the 2006 MIT iGEM Team. Used with permission.

System level test: uninformed experimental subjects??



Courtesy of the 2006 MIT iGEM Team. Used with permission.

MIT OpenCourseWare
<http://ocw.mit.edu>

20.020 Introduction to Biological Engineering Design
Spring 2009

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.