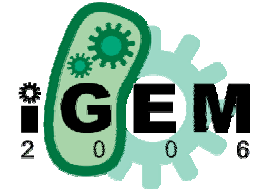


ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

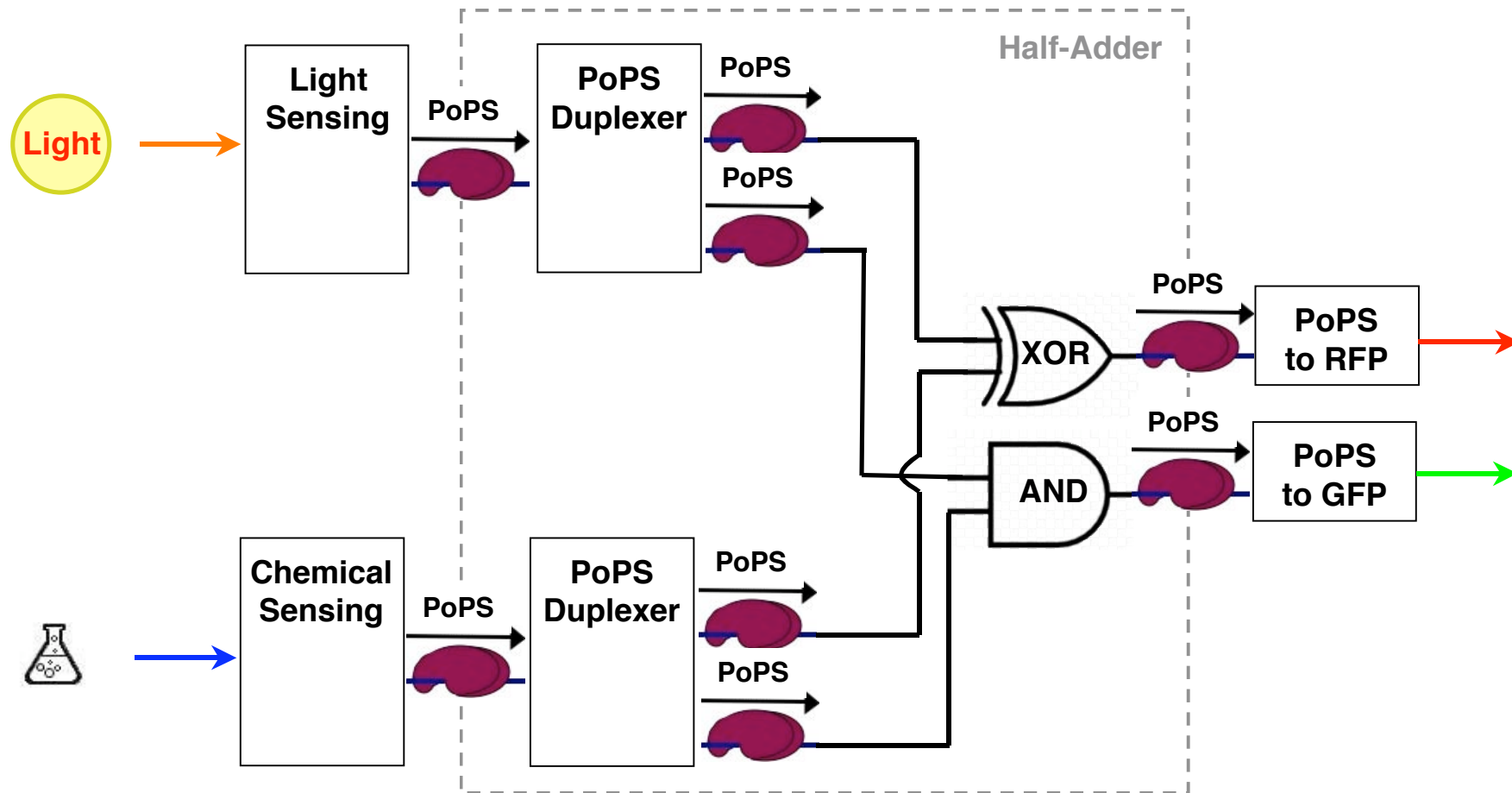


Half Adder - Modeling Overview

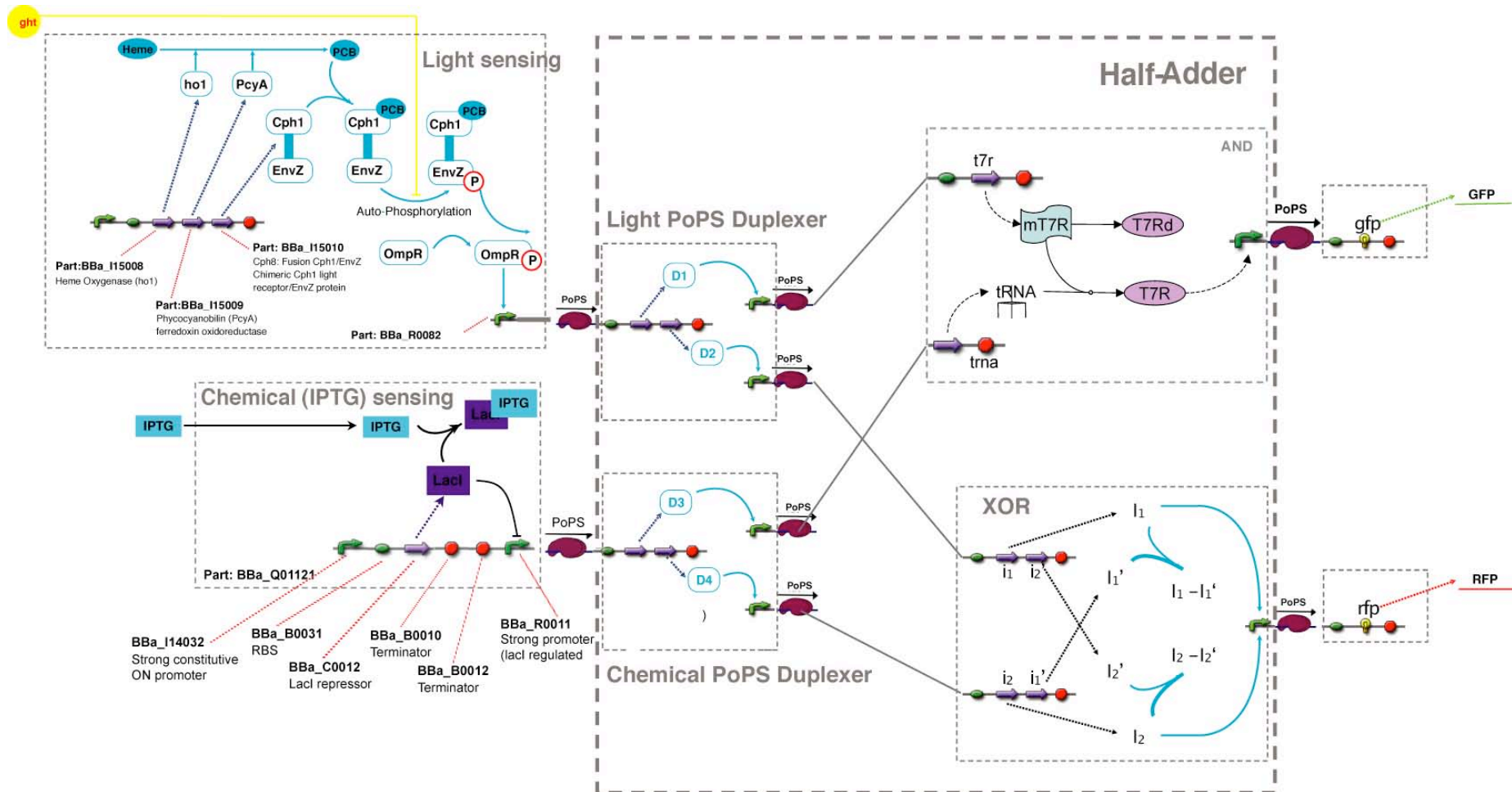
September 4th, 2006



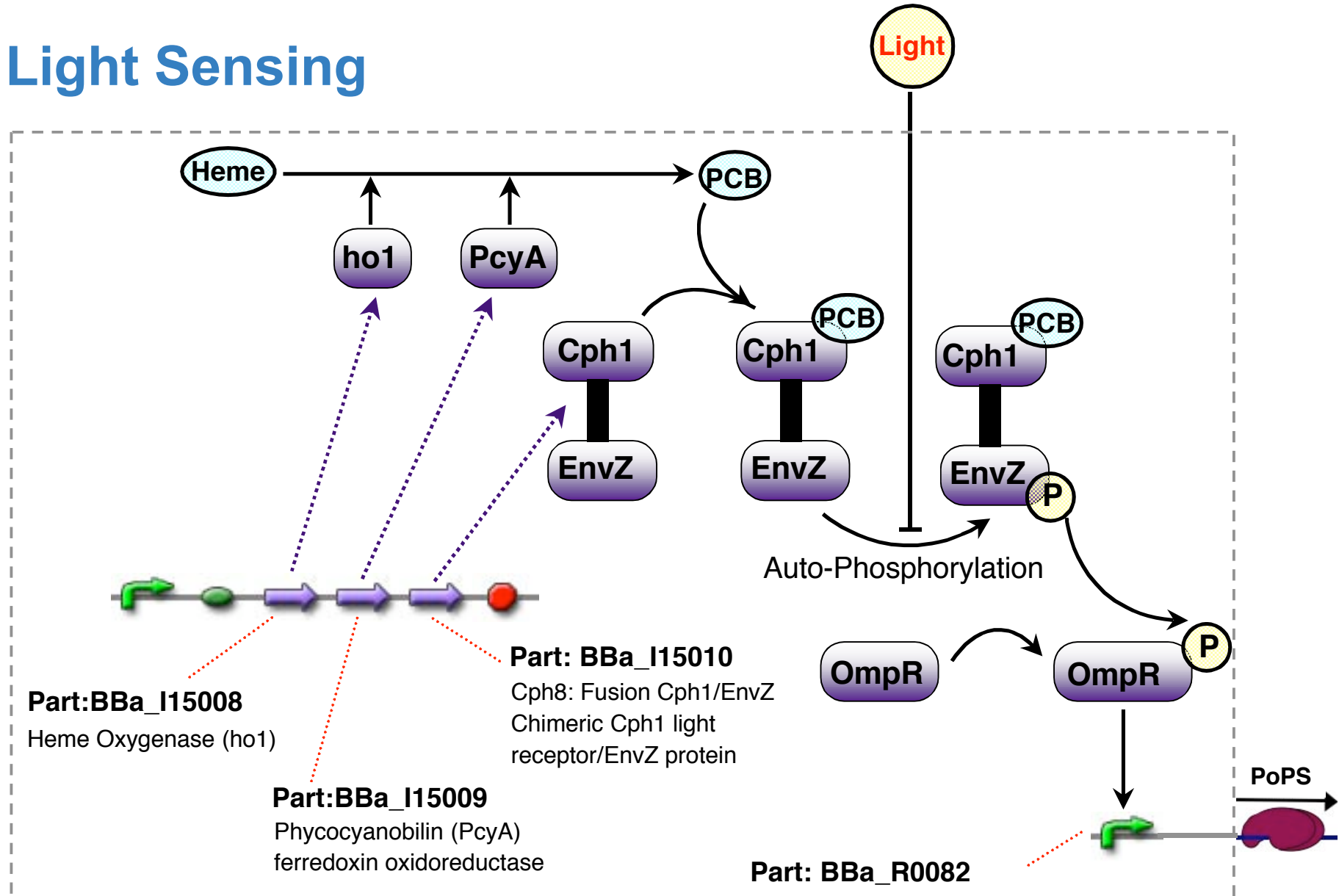
System Architecture



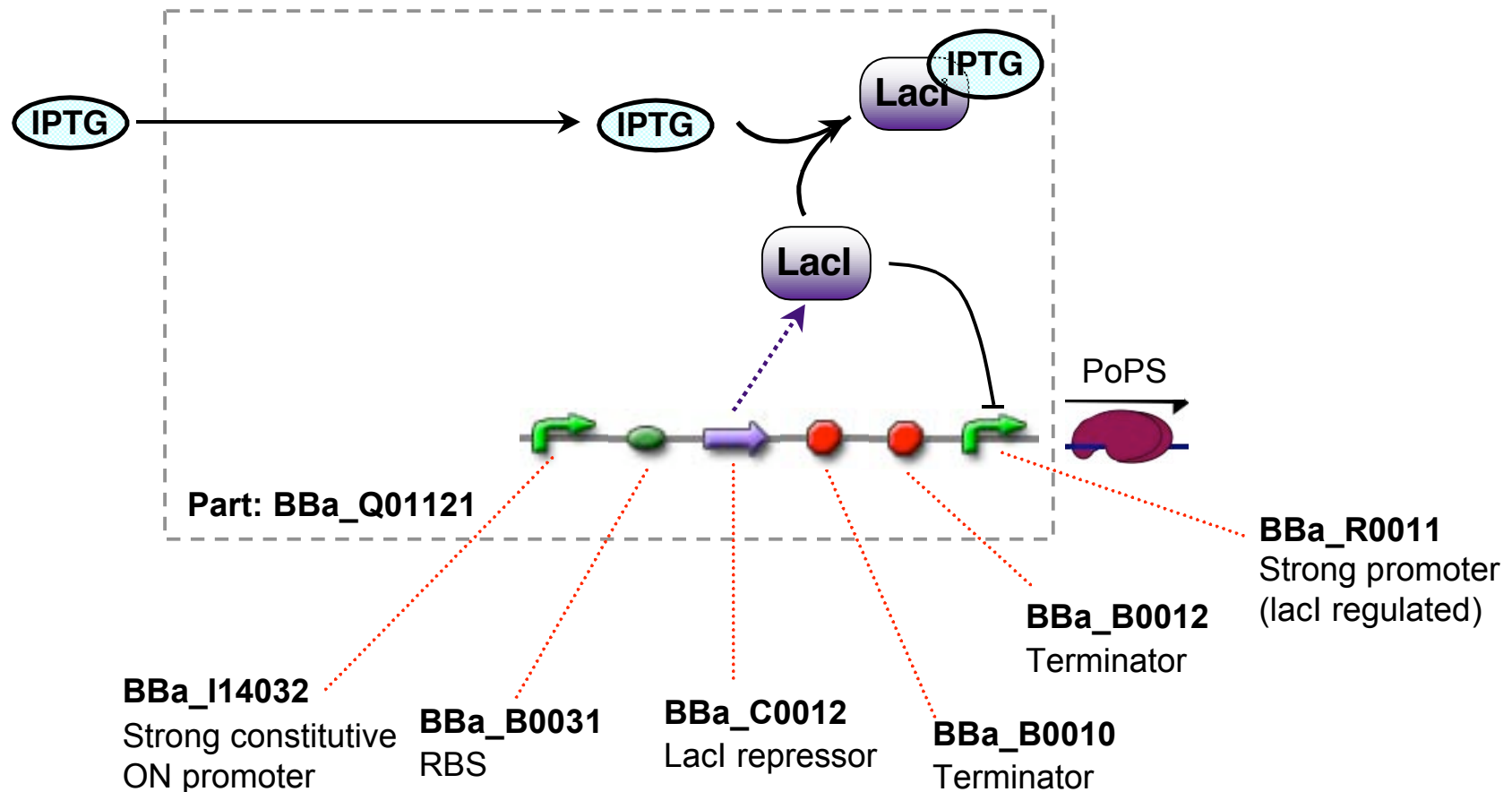
Insights Overview



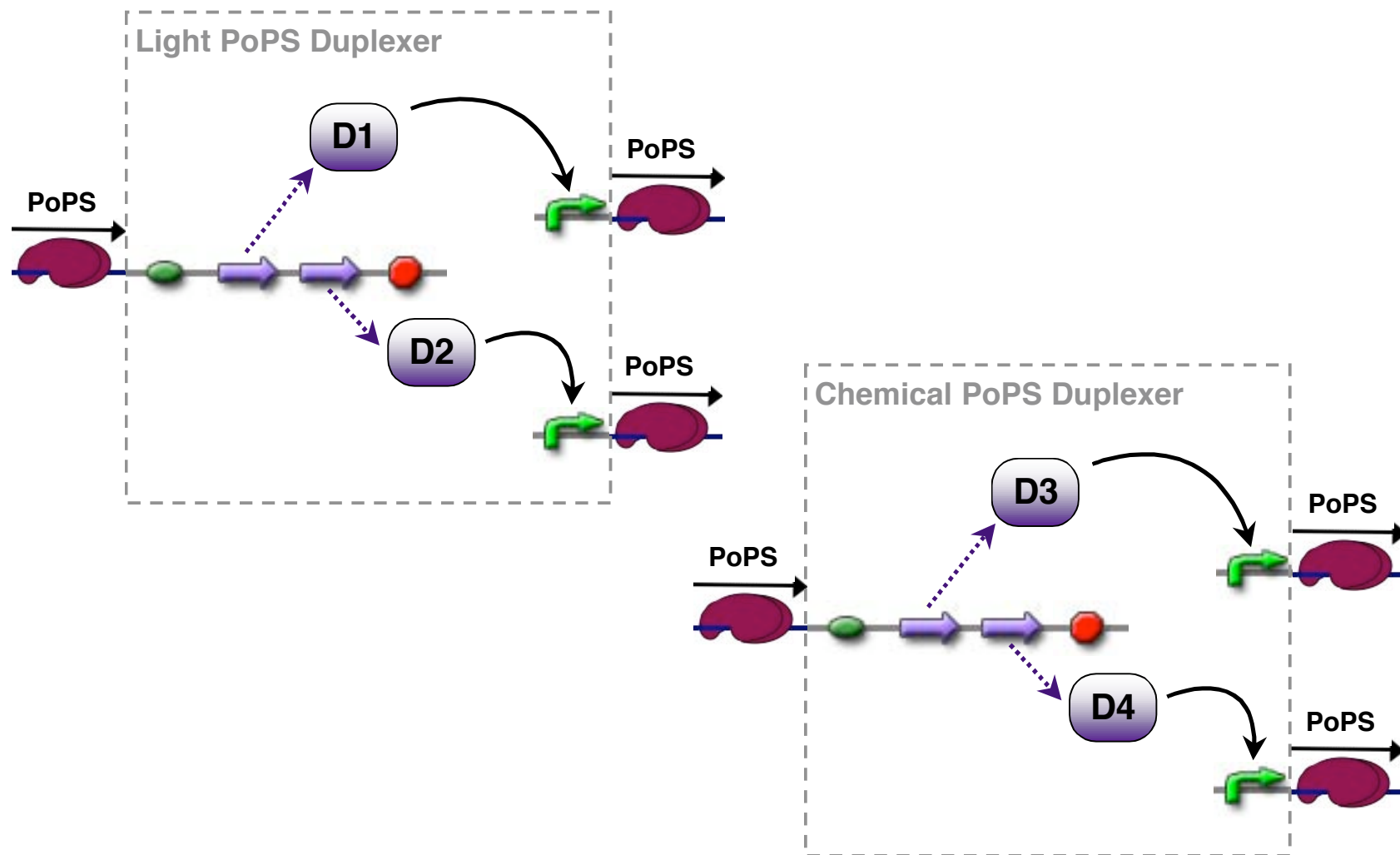
Light Sensing



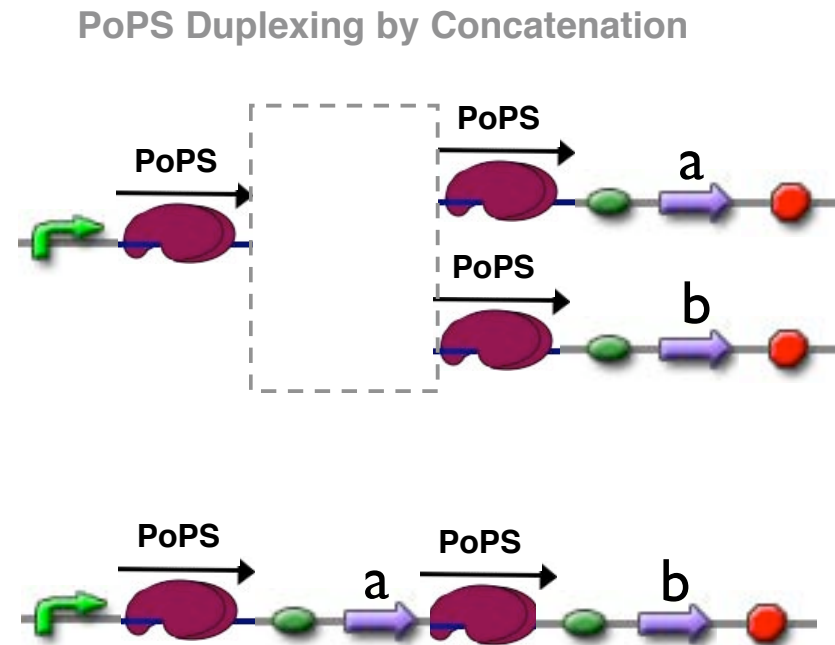
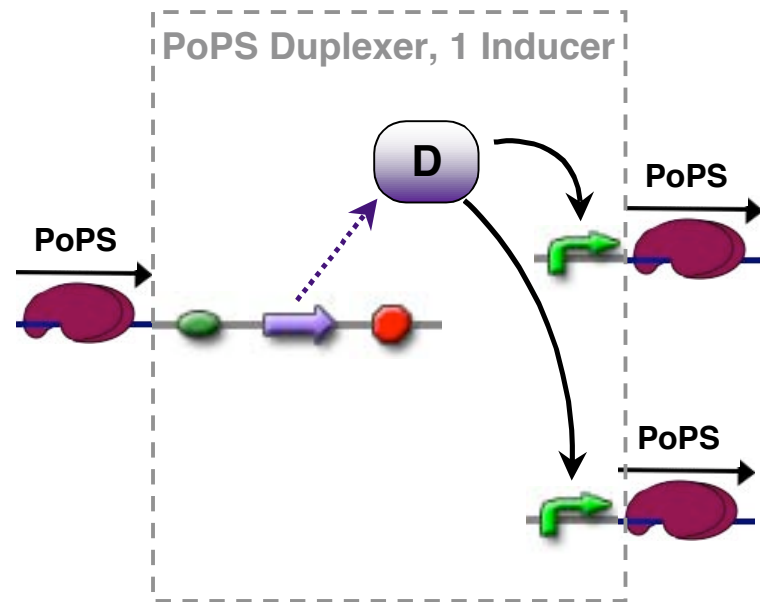
Chemical Sensing



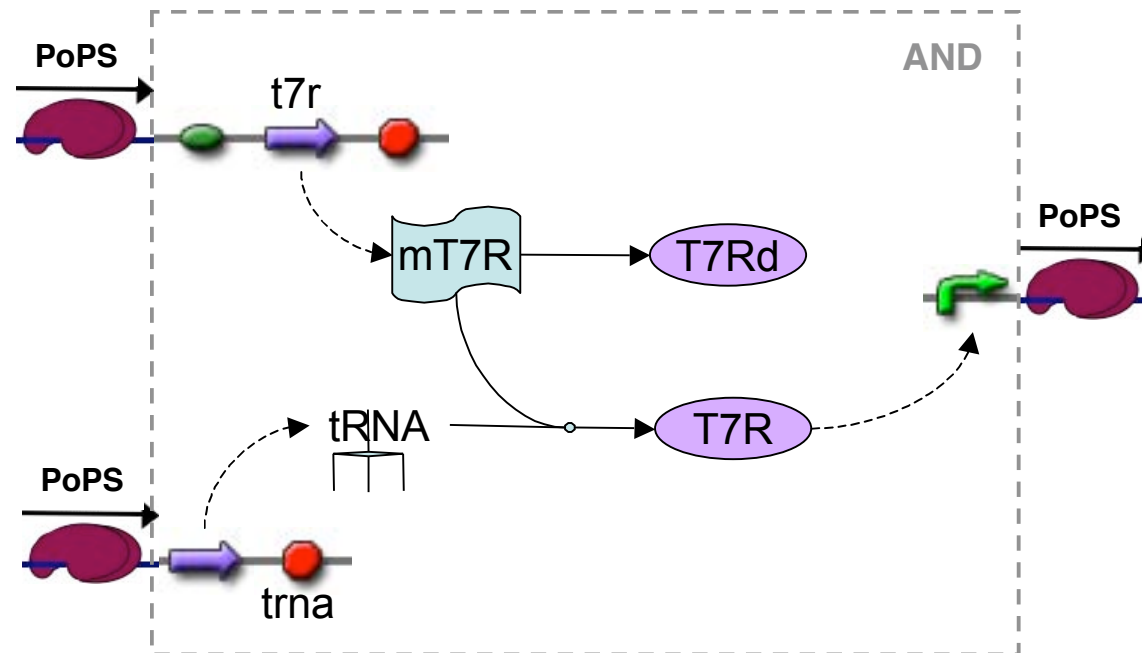
PoPS Duplexer



PoPS Duplexer Simplified

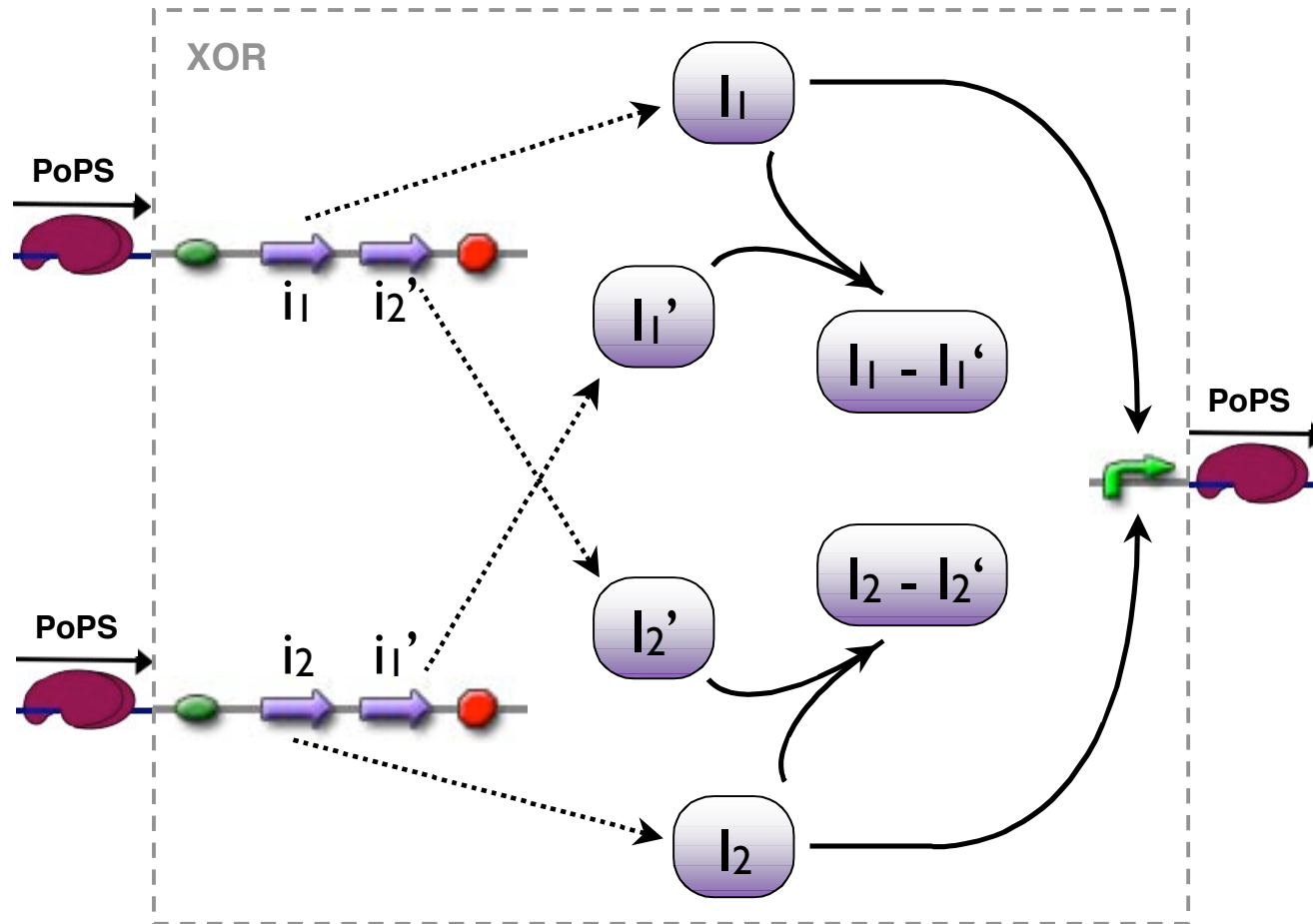


AND (tRNA)



T7R: T7 RNA Polymerase
 T7Rd: deficient (inactive) T7R
 mT7R: mRNA for T7R
 tRNA: tRNA to repress „early stop“ translation

XOR



PoPS to Reporter

