

Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich



Sensing System

iGEM Meeting August 3, 2006



ETH Zürich | iGEM team 2006 August 3, 2006



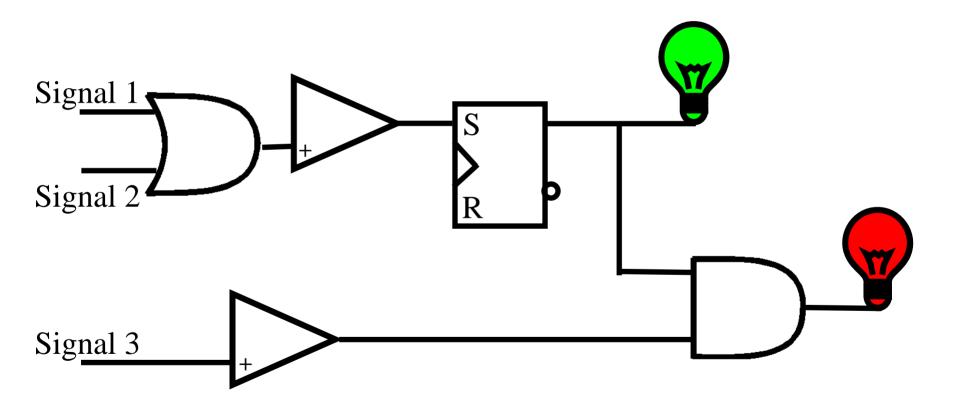
General Sensing System

- 2-step warning system
- Warning Dewarning
- Dewarning Dewarning
- Synergy

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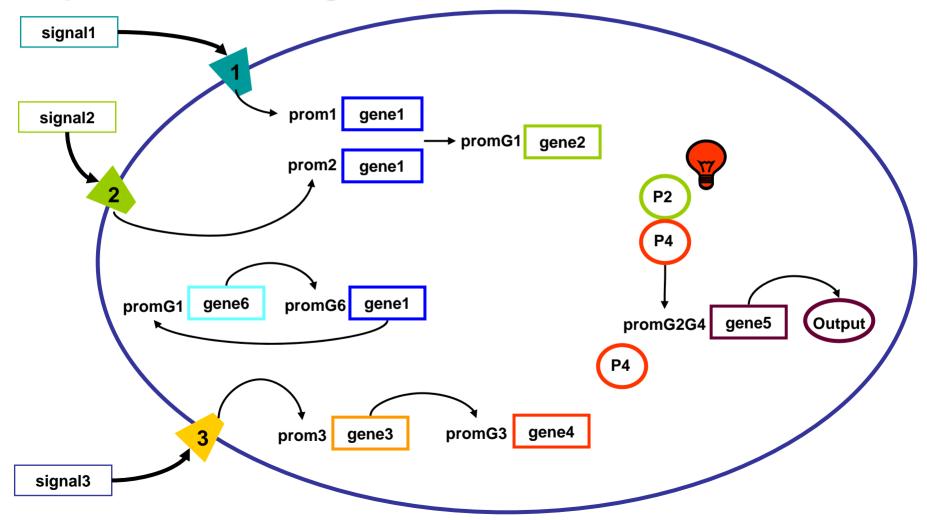


System: Engineering View





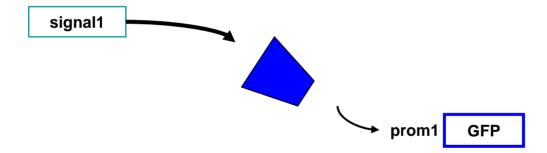
System: Biological View





Experiments - Part I

Testing of Signal Inputs

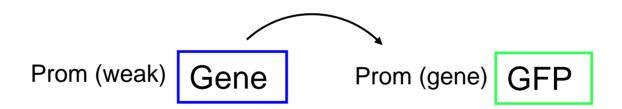


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Experiments - Part II

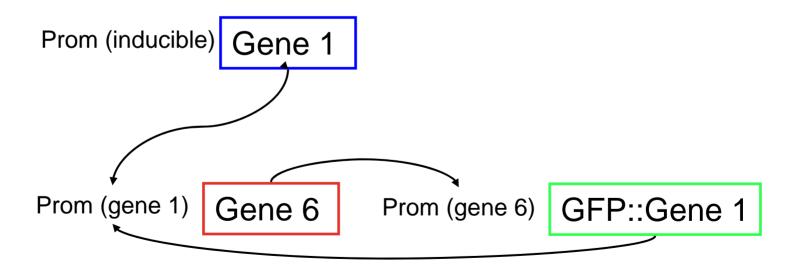
Testing of Amplifier





Experiments - Part III

Testing of Feedback Loop



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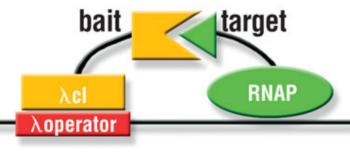


Experiments - Part IV

AND Gate

Prom ID-FRET1-Bait

Prom ID-FRET2-Target



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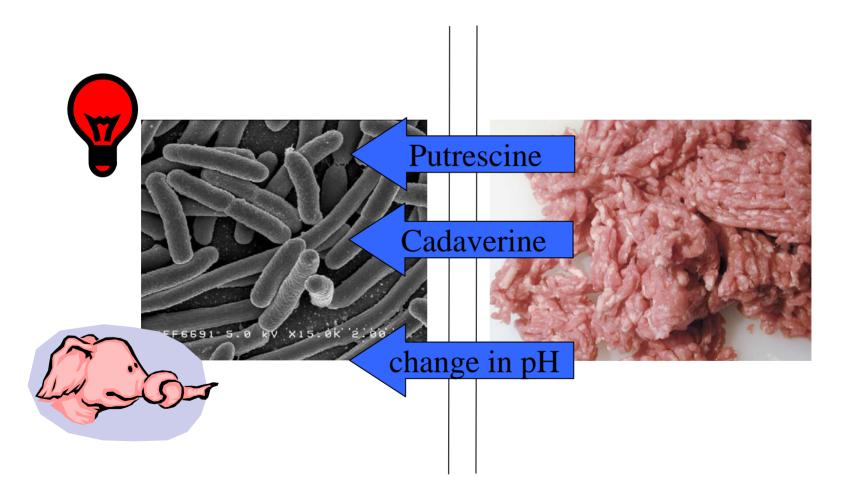
Pros & Cons

- Conceptually simple
- 4 Devices thereof 2 gates
- The auto regulation is separated from gene 1
- Redundancy
- FRET or Split-GFP has coolness

- The signals and their sensing are still not defined
- Auto regulation is not well defined (needs finetuning)
- No new ideas



Meat Monitor in the Petri Dish



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