



NATURALIZING COGNITIVE SCIENCES

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COGNITION: Wisdom
 Knowledge

and REALITY: Umwelt,
 Outside,
 World,
 Environment,
 Context,
 etc.



How we know our outside?

Epistemology



What is our outside?

Ontology



- **System/Umwelt**
- **System/Outside**
- **System/World**
- **System/Environment**
- **System/Reality**
- **System/Context**



Which is the context for a cell?

**Of course, nothing that can't be fixed
by its receptors.**

**Can we put ourselves in its
shoes?**



There must be definite kinds of structure in every perceiver to enable it to notice certain aspects of its environment rather than others, or indeed to notice anything (or nothing) at all.

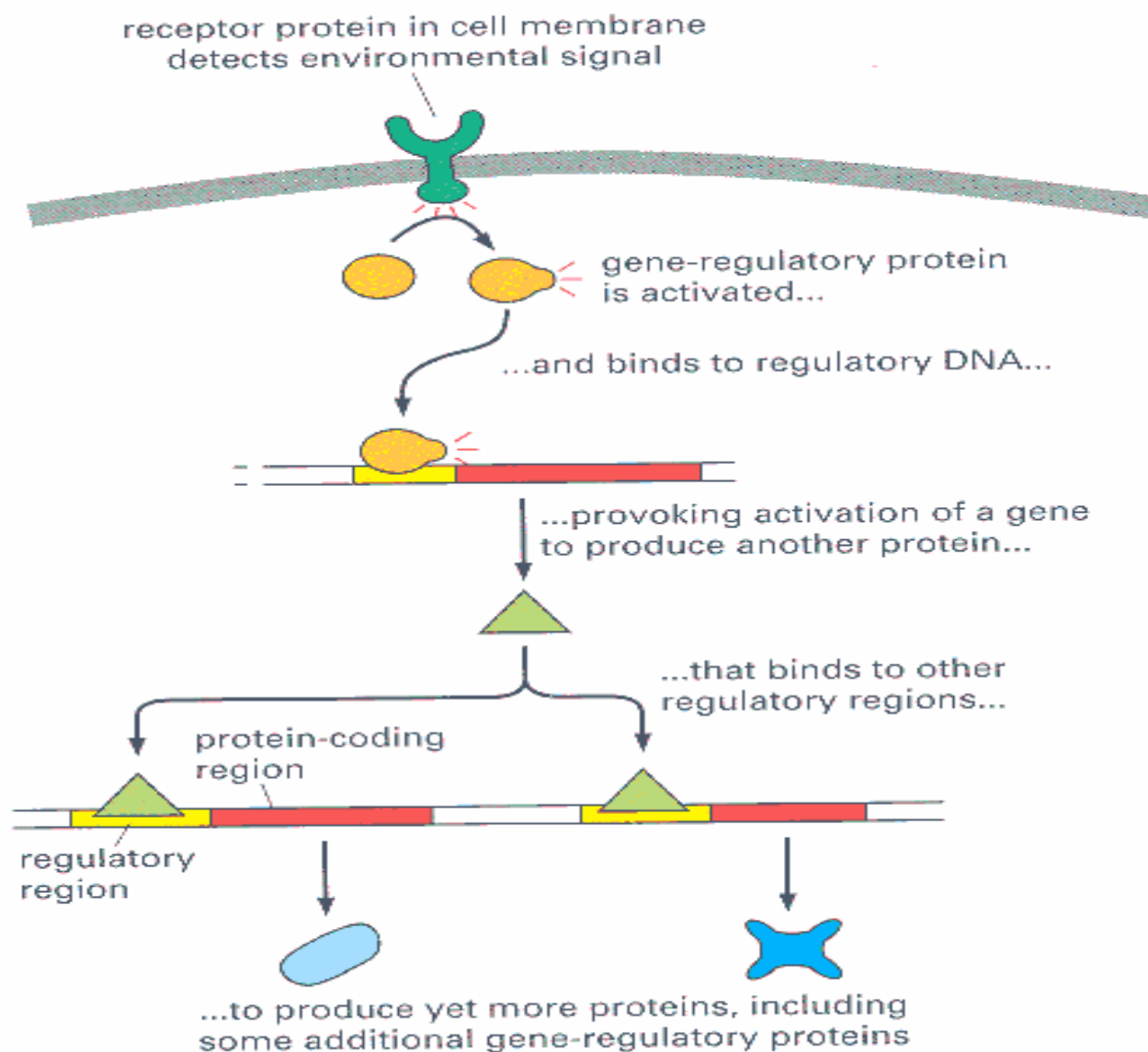


Ecological View

Is very interesting to see System/?,s as Networks

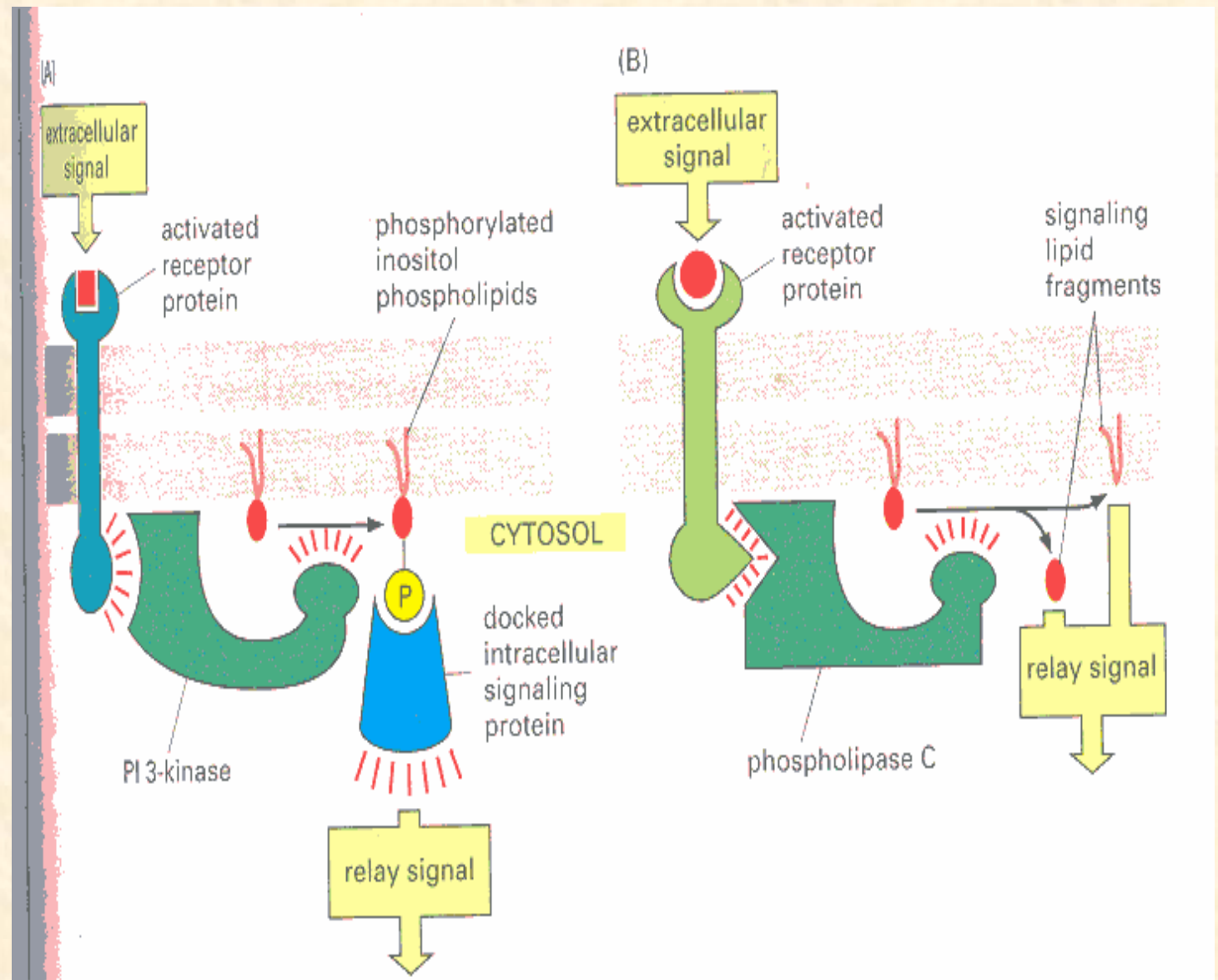
**“Everything touches
everything”**

Jorge L. Borges





- In the inner soup of a cell any change affects “instantaneously” all the rest.
- Within another kind of systems (social) all their components don't become related to the rest, instantaneously, so there have to be orderly patterns to order that relations.





There exists a real need to develop a theory of how machines can see or feel their world depending on their structure.

With the next requirements:



Ecological Validity.

Account of how perceivers act or interact with their world.

Including the main features of perception and memory as they occur in ordinary life.



Understand cognition in purposeful activity may be accomplished by robots observation. Studying variables that are ecologically important rather than those that are easily manageable.



**Pay attention to the
shareable differences
(breakdowns) of the real
world perceivers have
shaped to live.**



**Notice how these
requirements look like zen
thought.**

Naturalizing cognitive sciences



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