



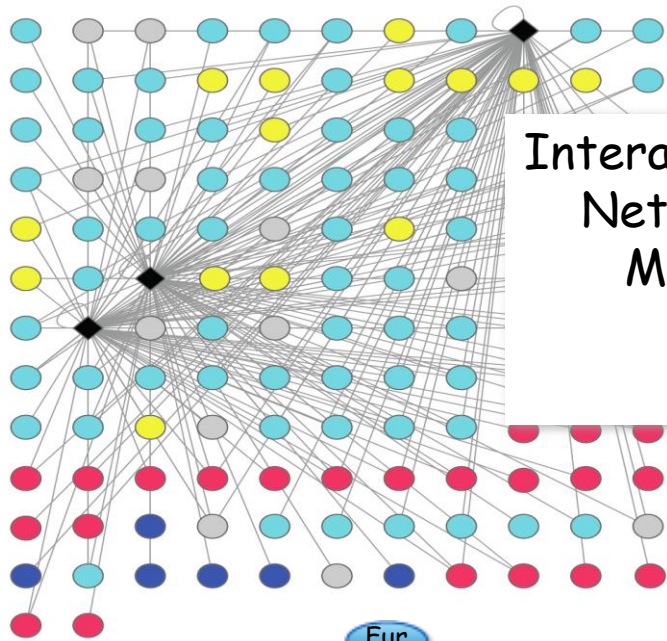
alliance nationale
pour les sciences de la vie et de la santé

ITMO Bases moléculaires et structurales du vivant

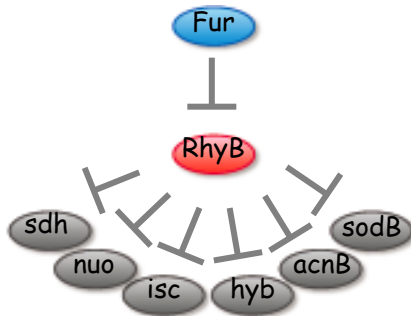
Qualitative and quantitative control

- ❑ Links with ITMO *GGB*
Genetic, Genomic and Bioinformatic
- ❑ ITMO *BCDE* Cellular Biology,
Development, evolution
- ❑ ITMO Microbiology and infectious
diseases

Regulation: interaction, networks, mechanisms...

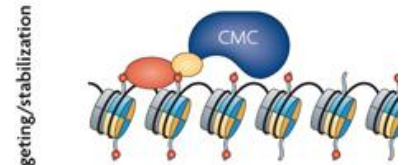


Interaction/assembly
Networks
Mechanisms
Structure
Dynamics



human diseases
host-pathogen

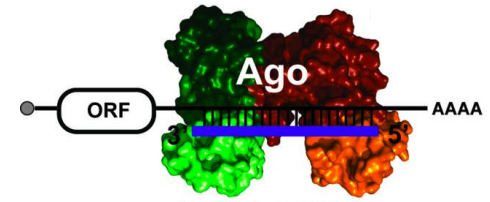
System biology



Targeting/stabilization
Transcription factor



Long noncoding RNAs



miRNA-RISC
translational repression

Prof. Jörg Vogel

- ❑ Junior research group, Max Planck Institute Infection Biology, Berlin
- ❑ Professor and Director for Molecular Infection Biology, University of Würzburg (Germany)
- ❑ small RNAs in bacteria and host-pathogen interaction
E. coli, *Salmonella*, *helicobacter pylori*, *Staphylococcus aureus*...
(networks, mechanisms)



- ❑ **European Science foundation**
A forward look
The RNA world : a new RNA frontier
In biomedical research