



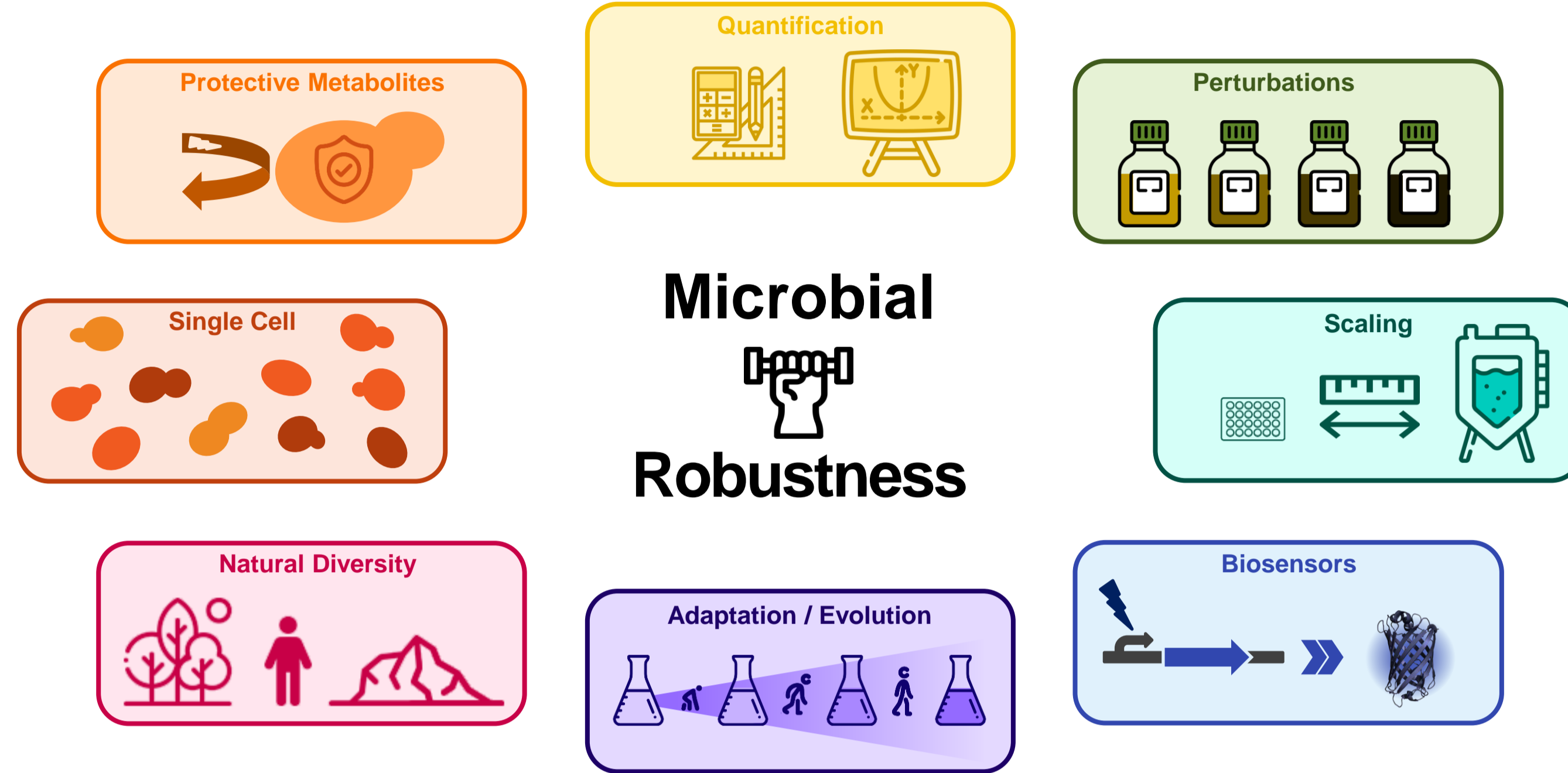
Microbial robustness in bioprocesses

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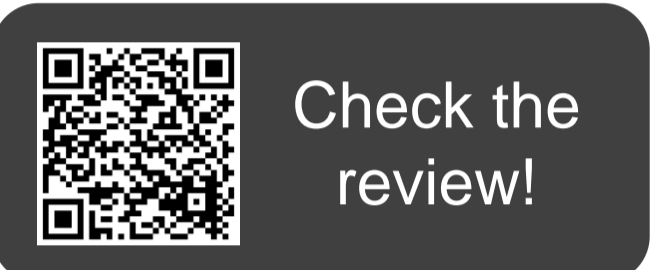
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Background

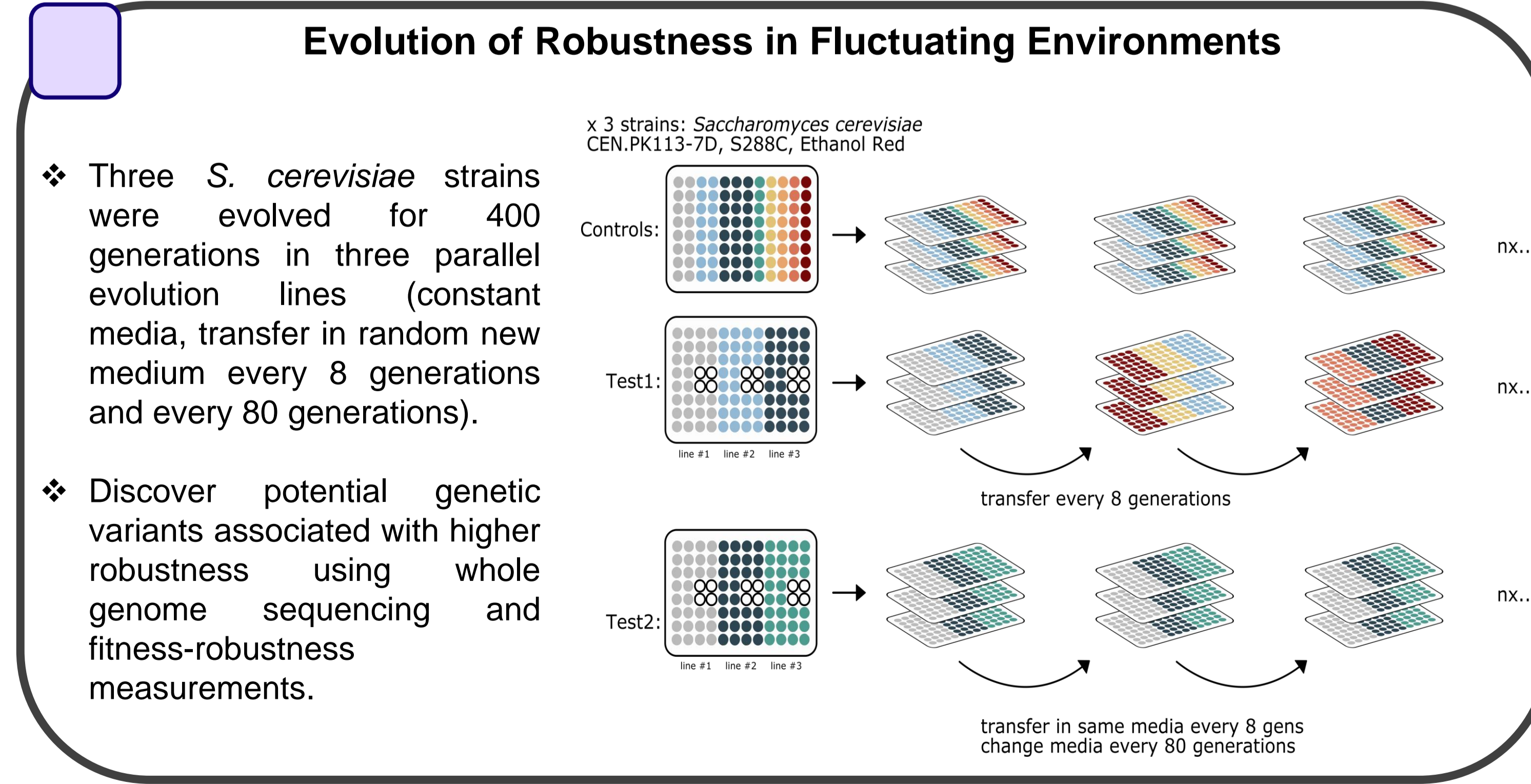
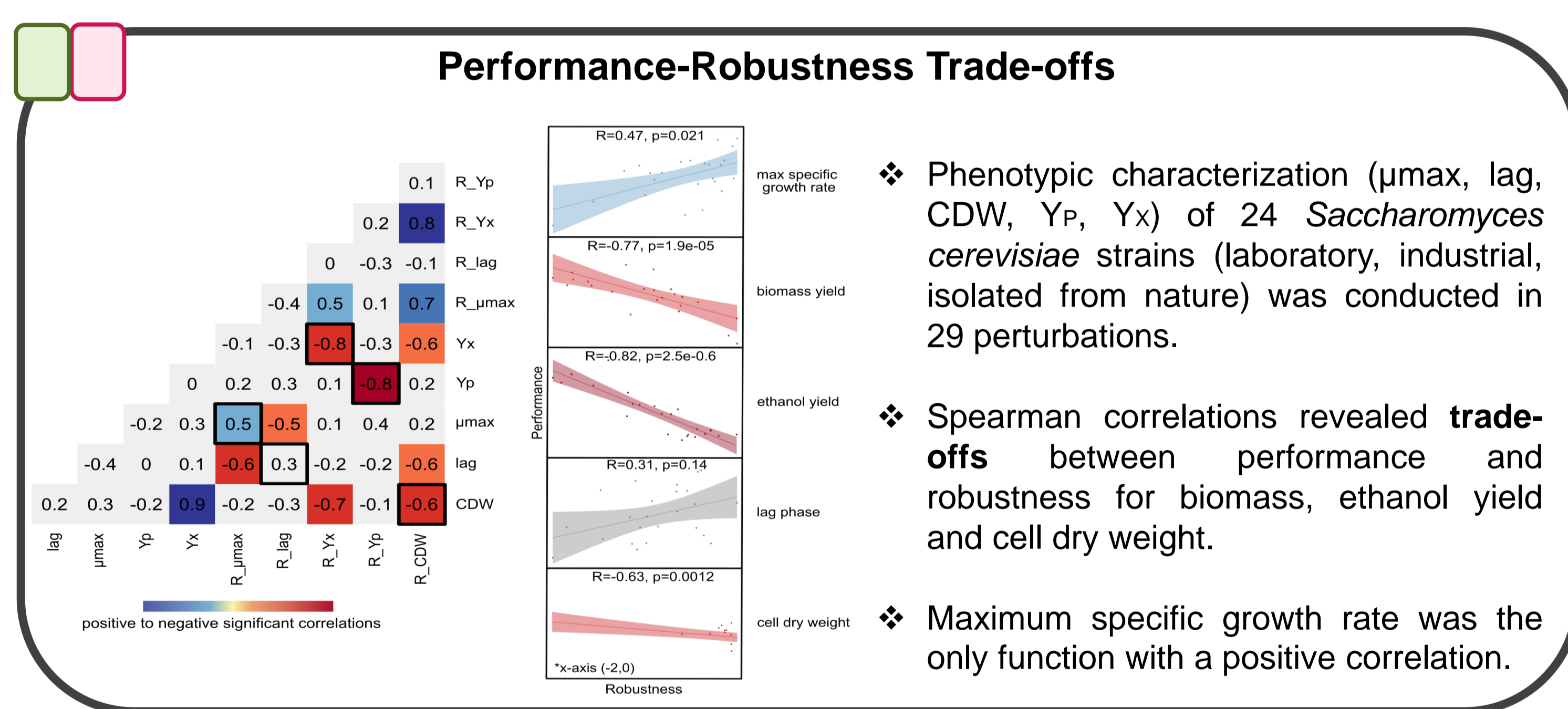
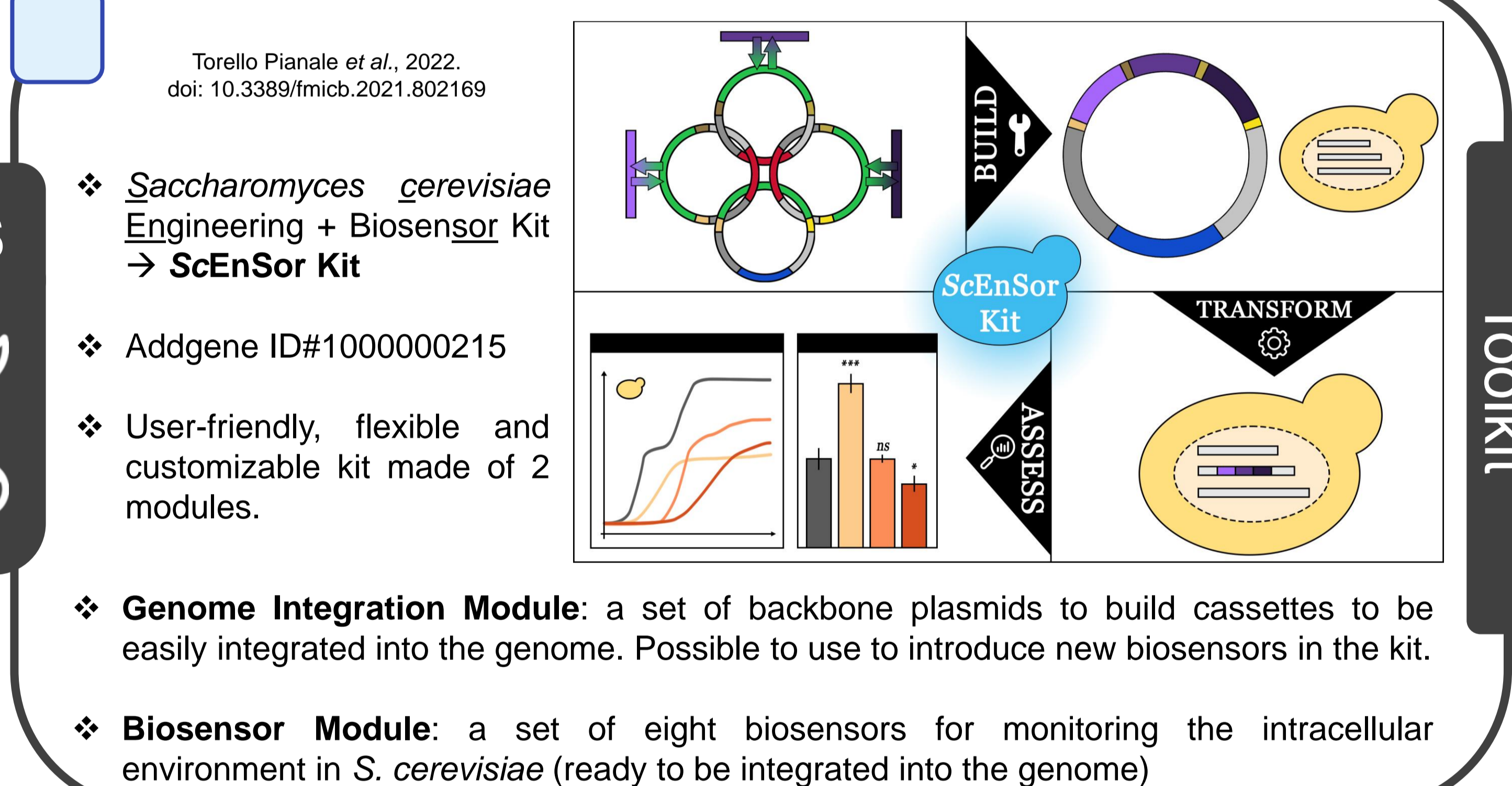
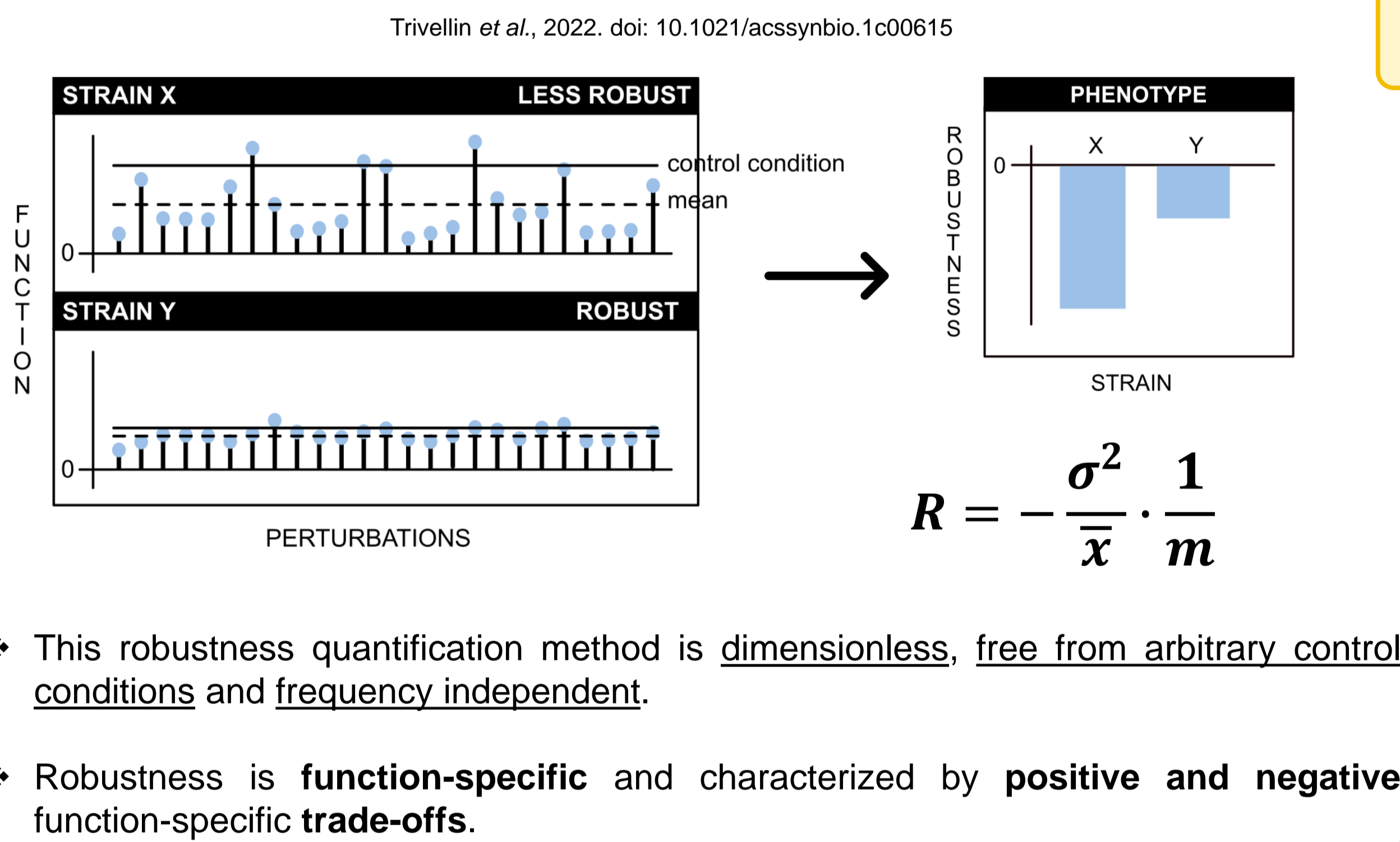
- A broad range of predictable and stochastic **perturbations** affects the **performance** and productivity of microorganisms in bioprocesses.
- Microbial robustness** describes the stability of a phenotype (cellular function) when a system is challenged by different perturbations.



- It **differs** from **tolerance**, which relates to the survival of the cells or growth in the face of perturbations.
- Lack of tools** to quantify microbial robustness and investigate the physiological traits associated with it under bioprocess-relevant perturbations.



Quantification



APPLICATIONS

