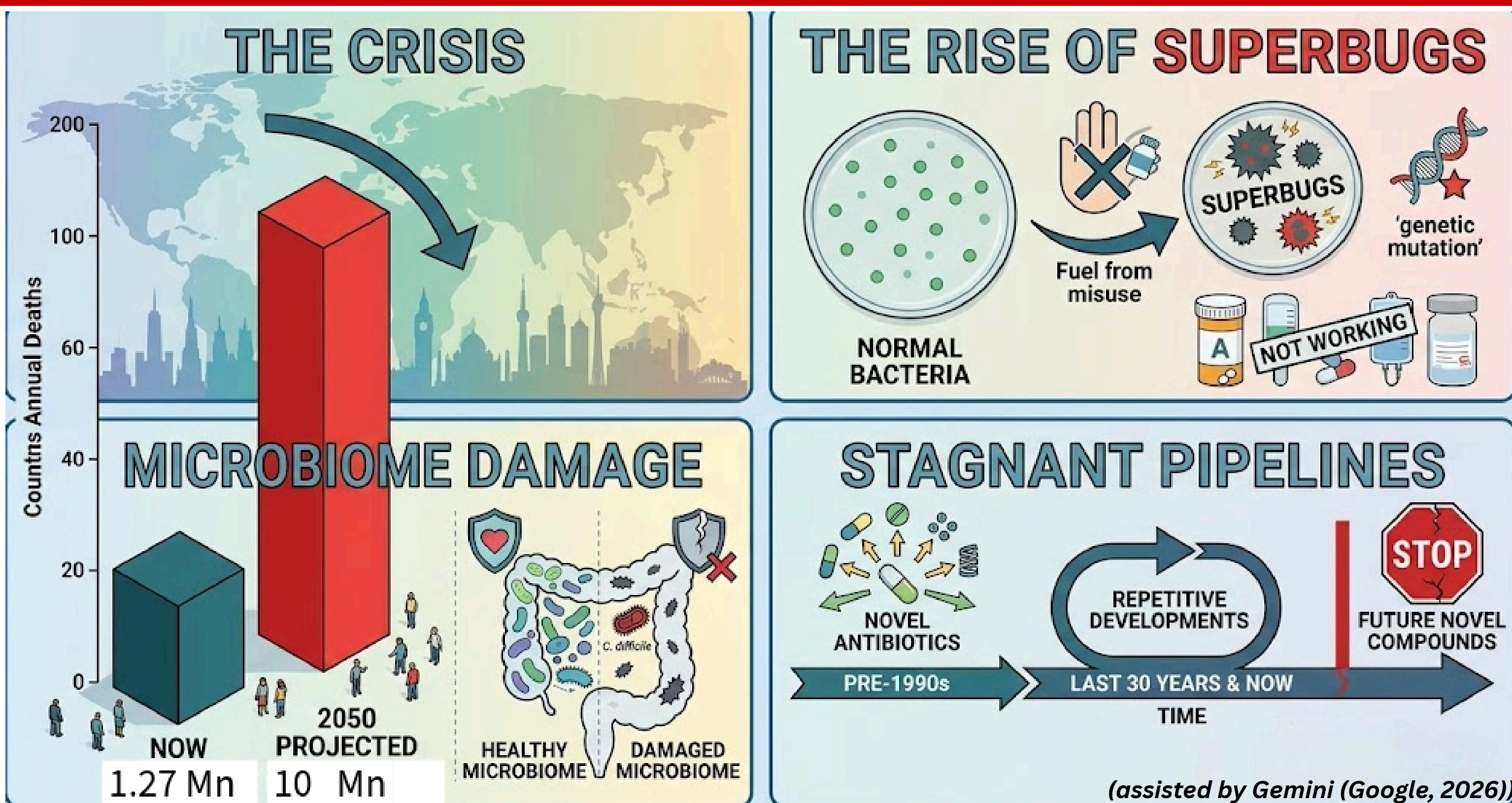


“SILENT PANDEMIC” : Antimicrobial Resistance



- Traditional antibiotics are failing against rapidly evolving superbugs, turning antimicrobial resistance into an urgent global health crisis!

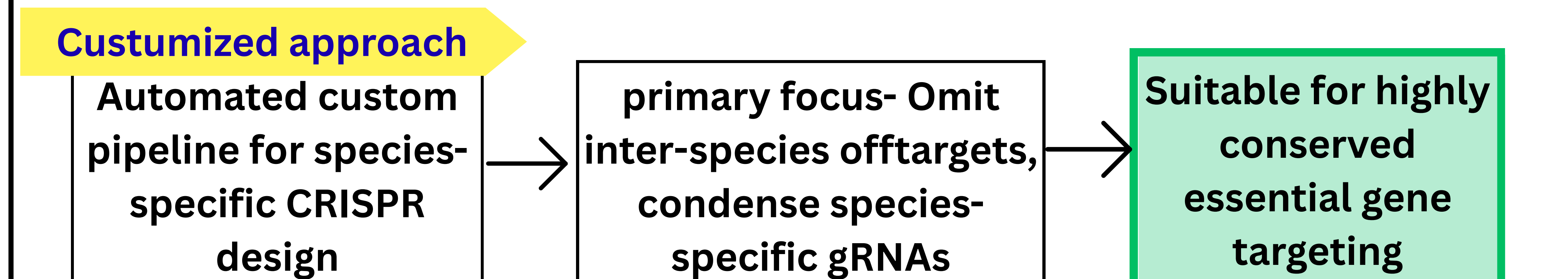
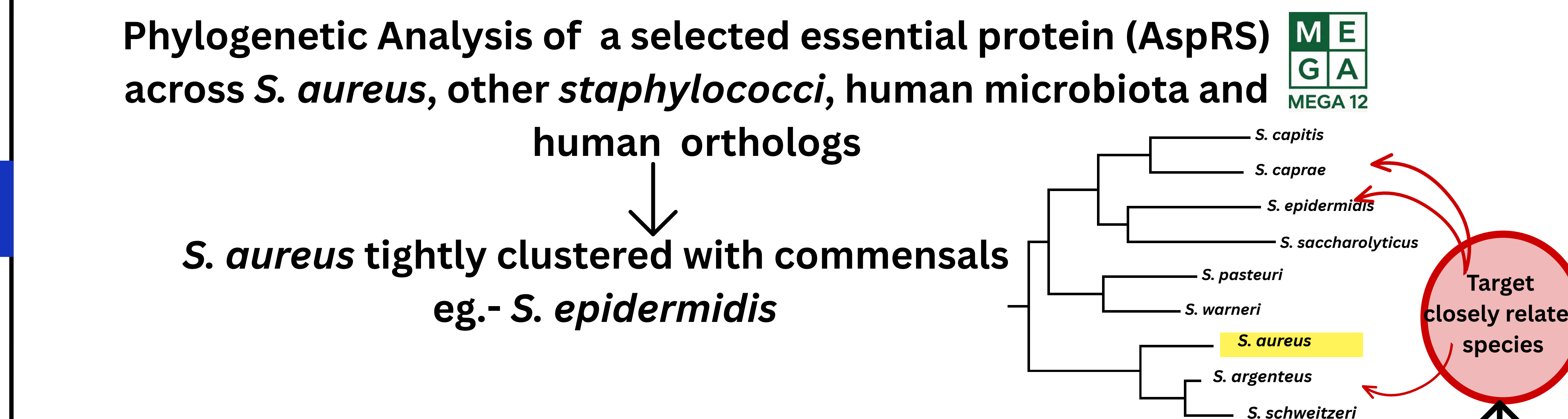
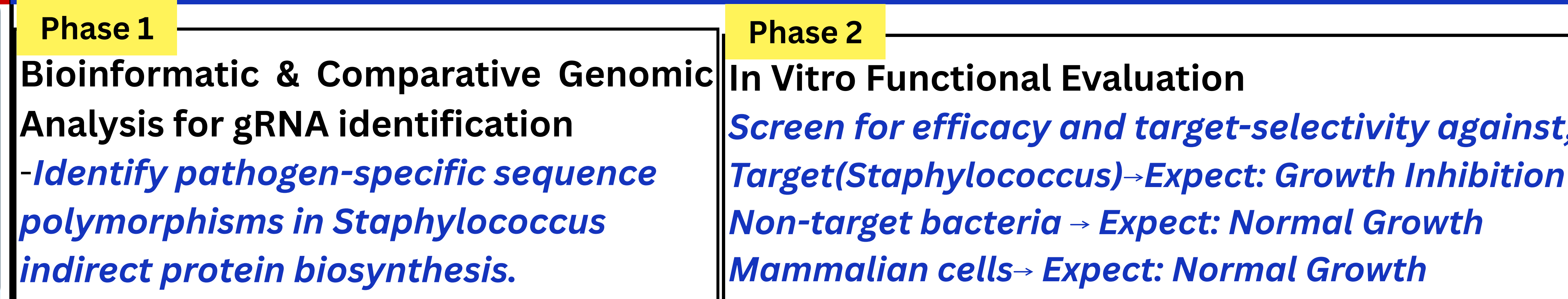
Addressing the AMR Crisis: Our Approach

- To develop precision CRISPR/Cas-based antibiotics that selectively eliminate pathogenic *Staphylococcus* species/*S. aureus* by silencing essential protein synthesis genes, bypassing the limitations of traditional small-molecule and CRISPR therapies.

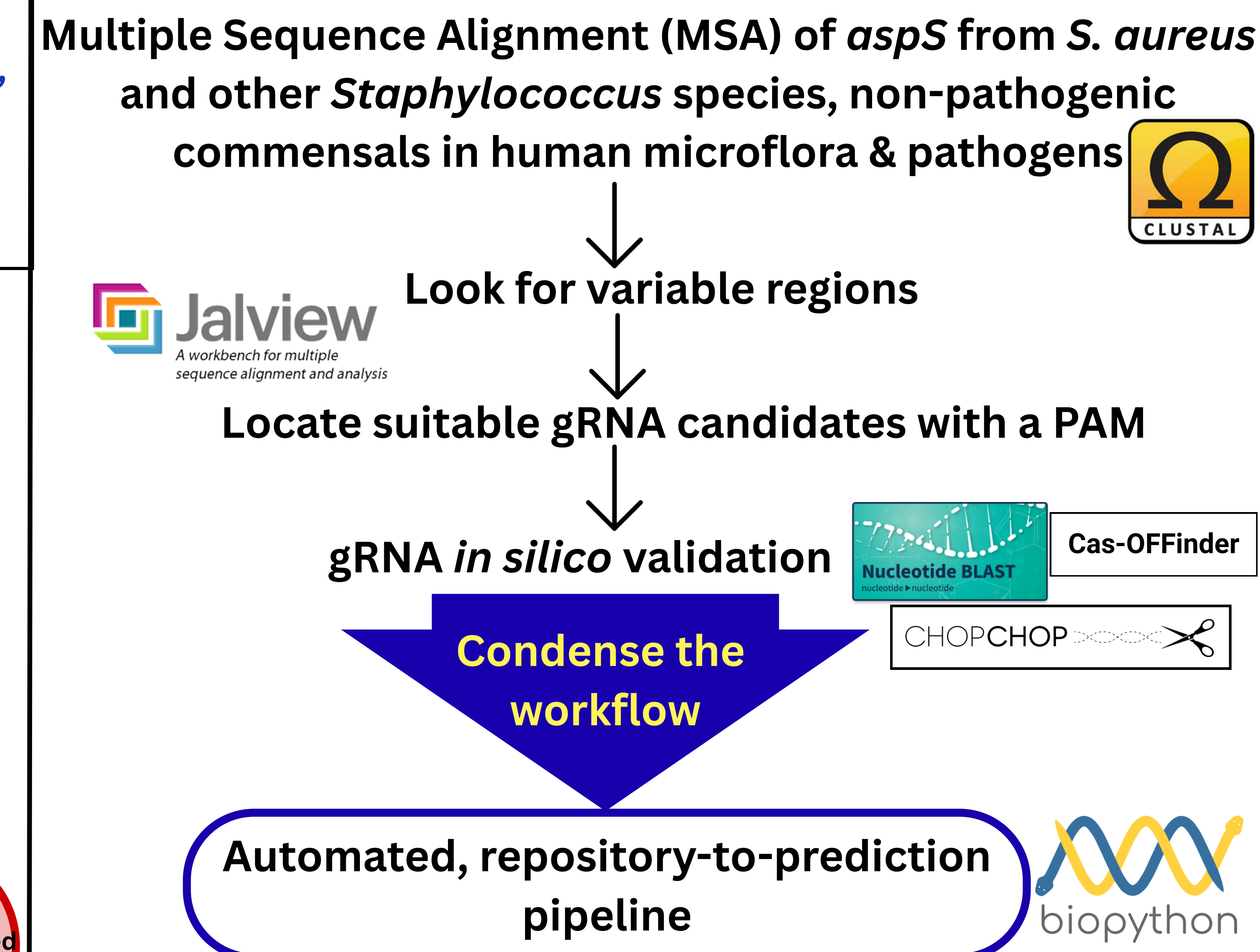
Significance of the Study

- Fights the Superbug Crisis
- Protects the Microbiome
- Reduces Severe Infections
- Breaks the Antibiotic Stagnation
- Targets a Novel Genetic Pathway
- Creates a Scalable Technology Platform

Proposed Workflow



Custom pipeline for species-specific CRISPR design for *aspS* in *S. aureus*



Acknowledgement

- Faculty of Science, University of Colombo.
- Faculty of Biochemistry, Sabaragamuwa University of Sri Lanka

References

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