

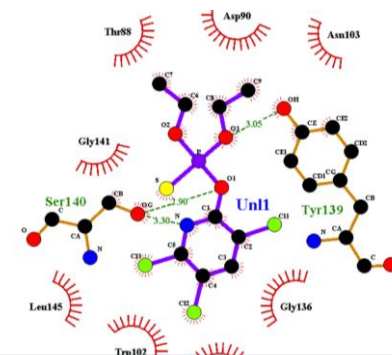
Leveraging Molecular Docking Techniques to Support Virtual Screening of Cross-species Susceptibility to Chemical Effects

Rama Krishnan ^{1*}, David Spurgeon ², Stephen Short ², Bruno Campos ³, Claudia Rivetti ³, Claire Peart ³, Peter Kille ¹

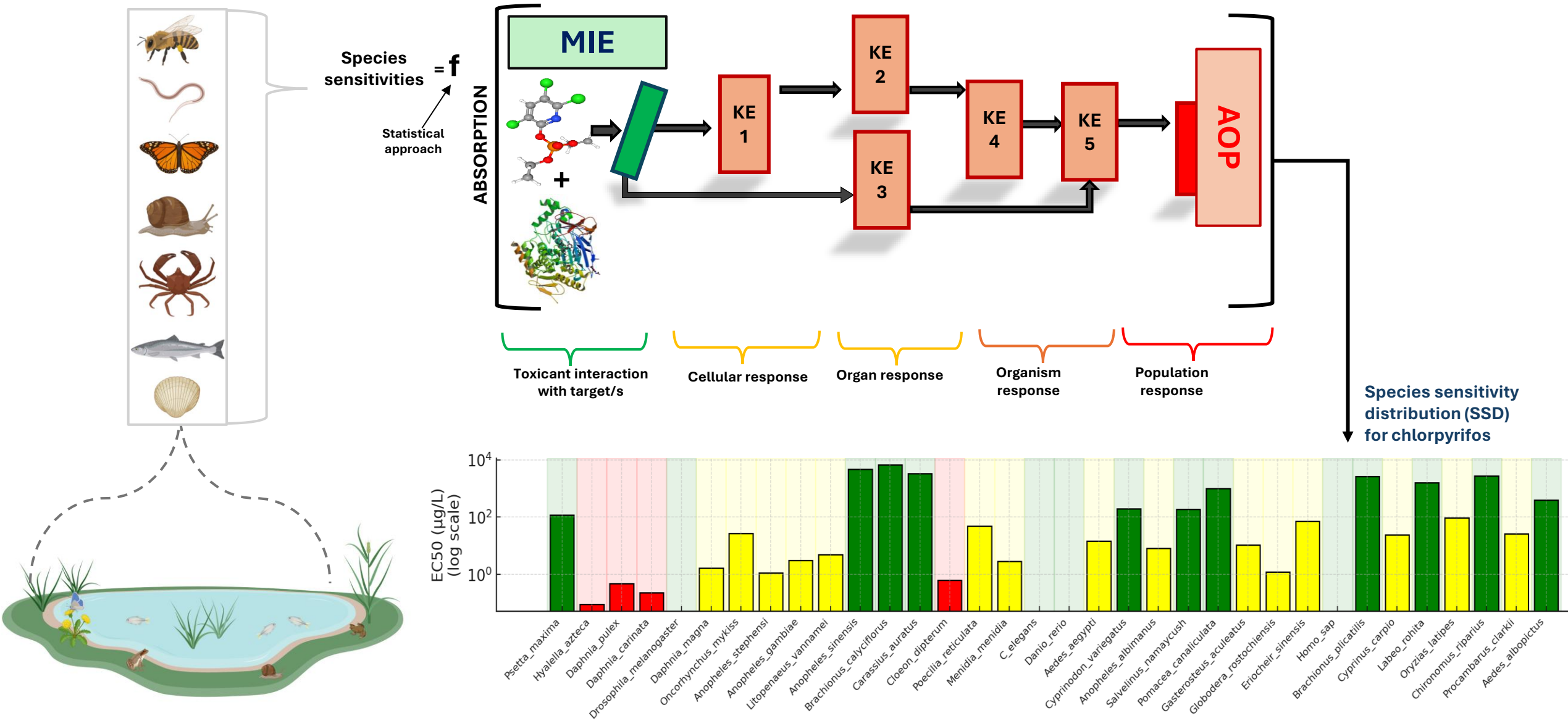
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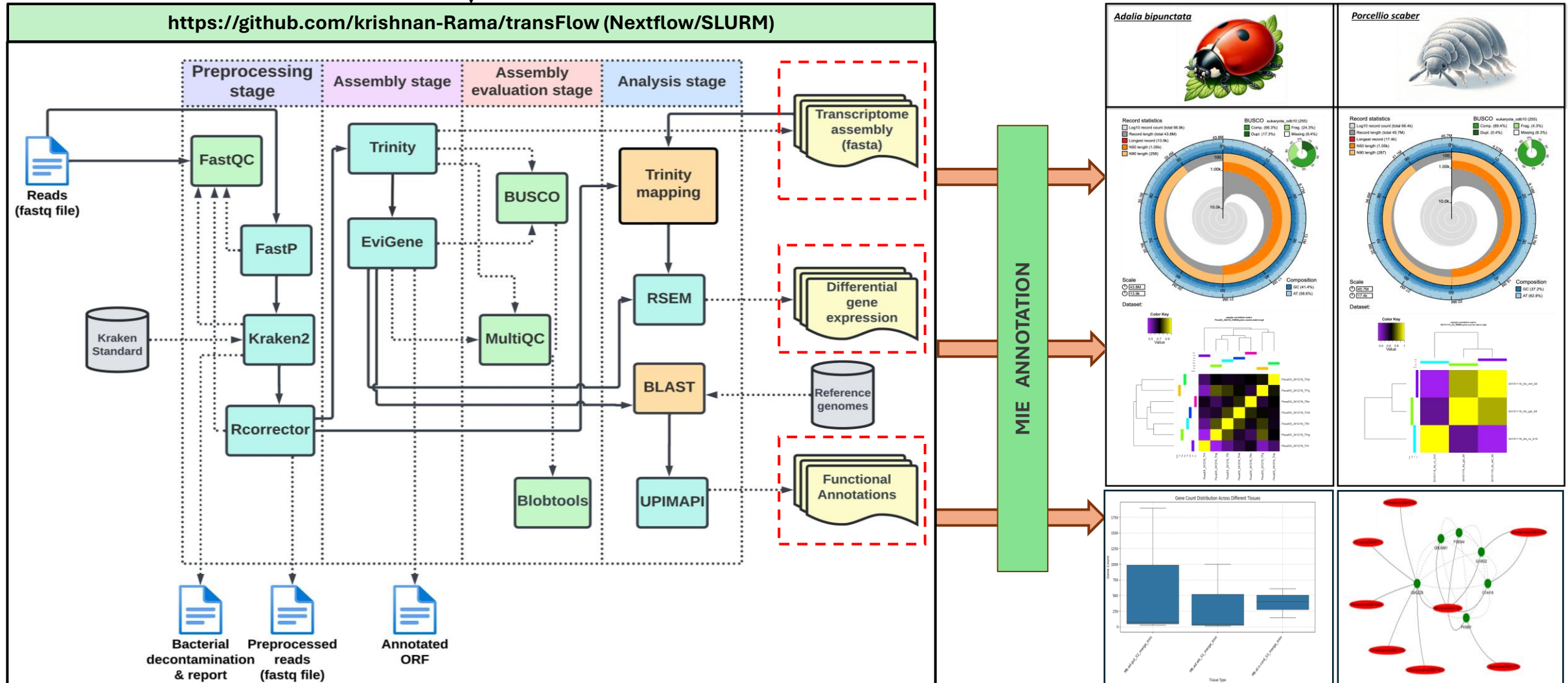
- Species are **not** equally sensitive to toxicants: making risk assessment difficult

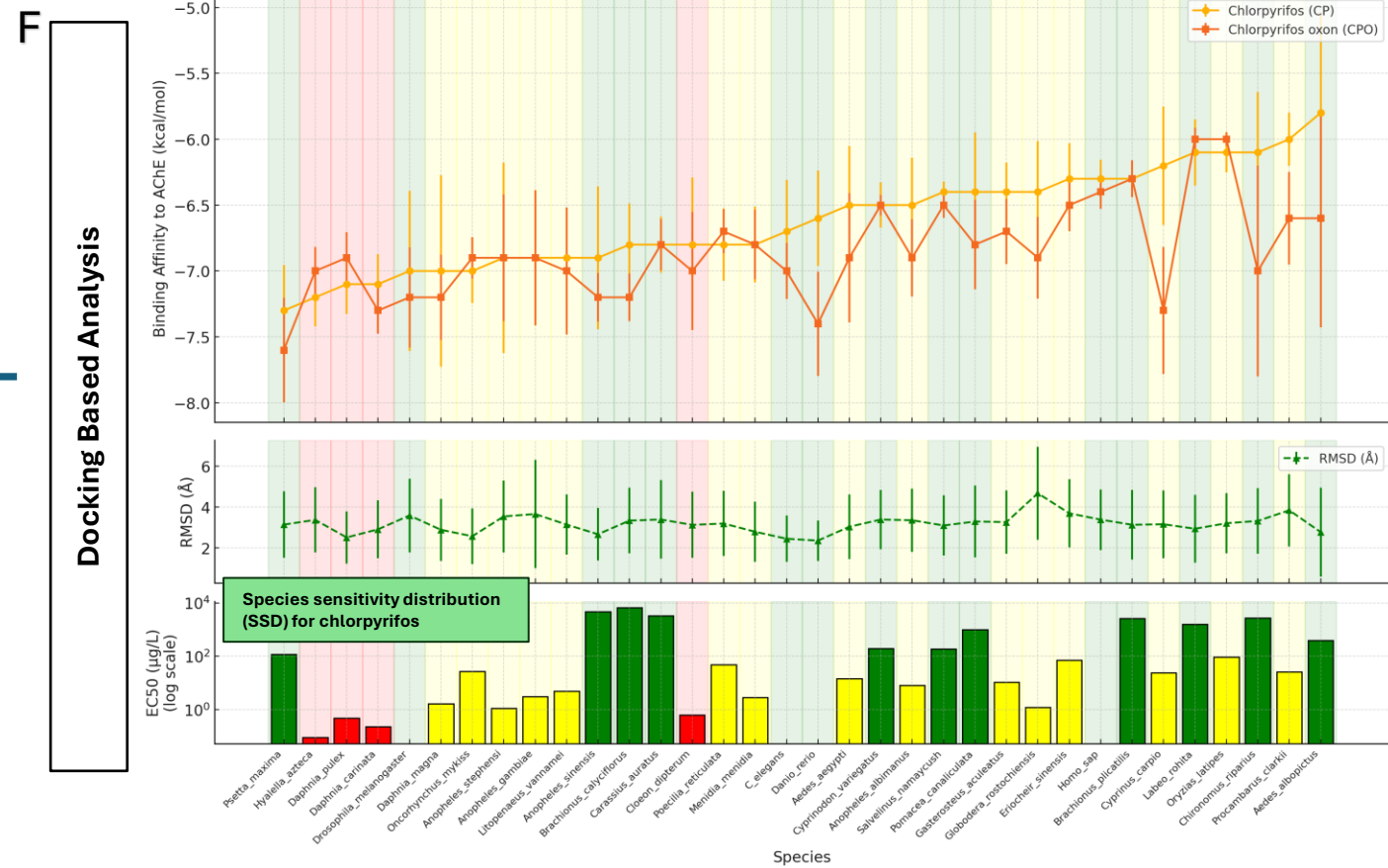
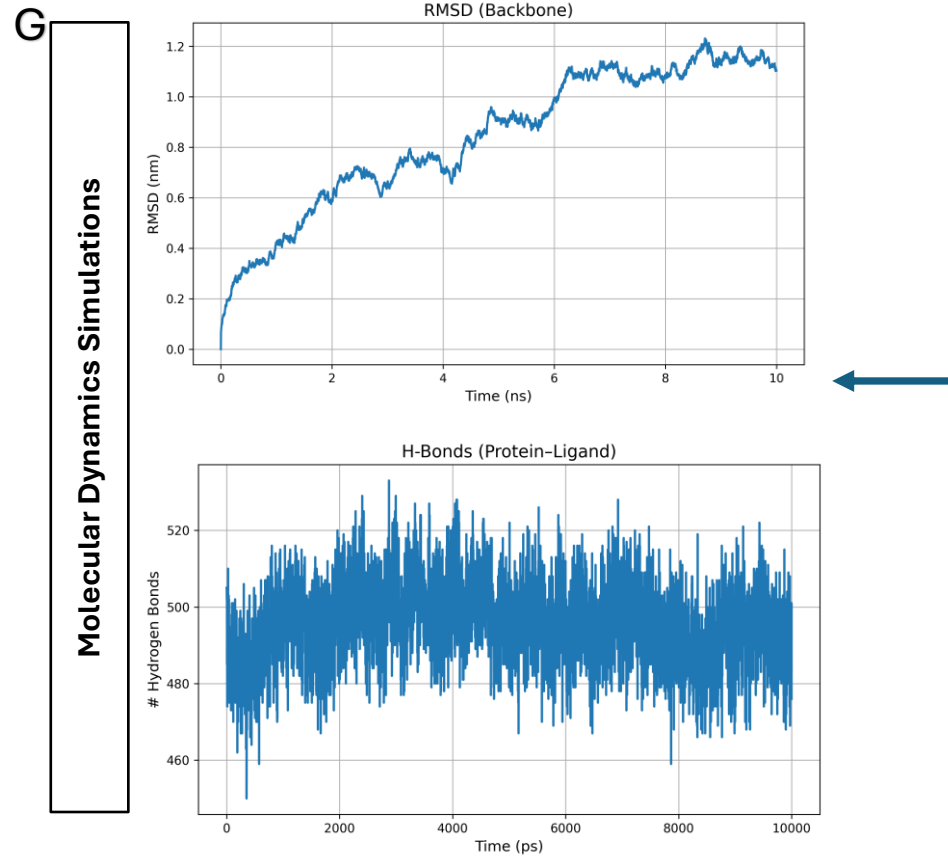
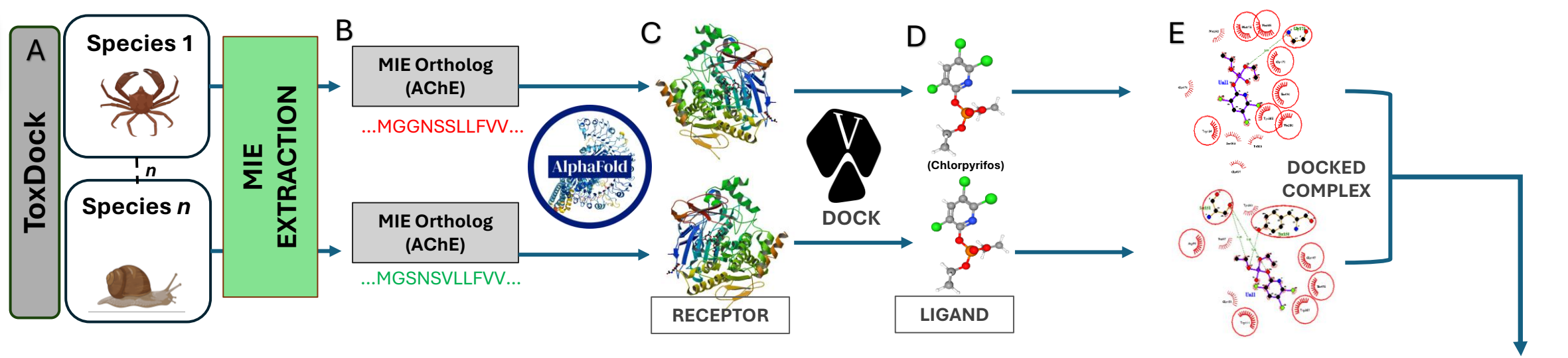


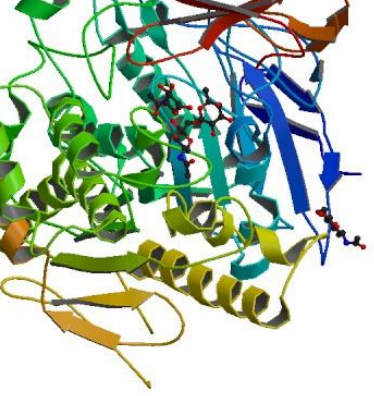
Why is this important now? Helping the “too many” species scalability challenge



- Over 1000 genomes and counting – goal of 70,000.
- Combining high-throughput exposure systems with RNA-seq can address chemical challenges and compensate for unavailable genome
- transFlow for fast and efficient transcriptome assembly, designed for: DGE analysis and MIE identification







Thank you, now let's get the
theory into action...

