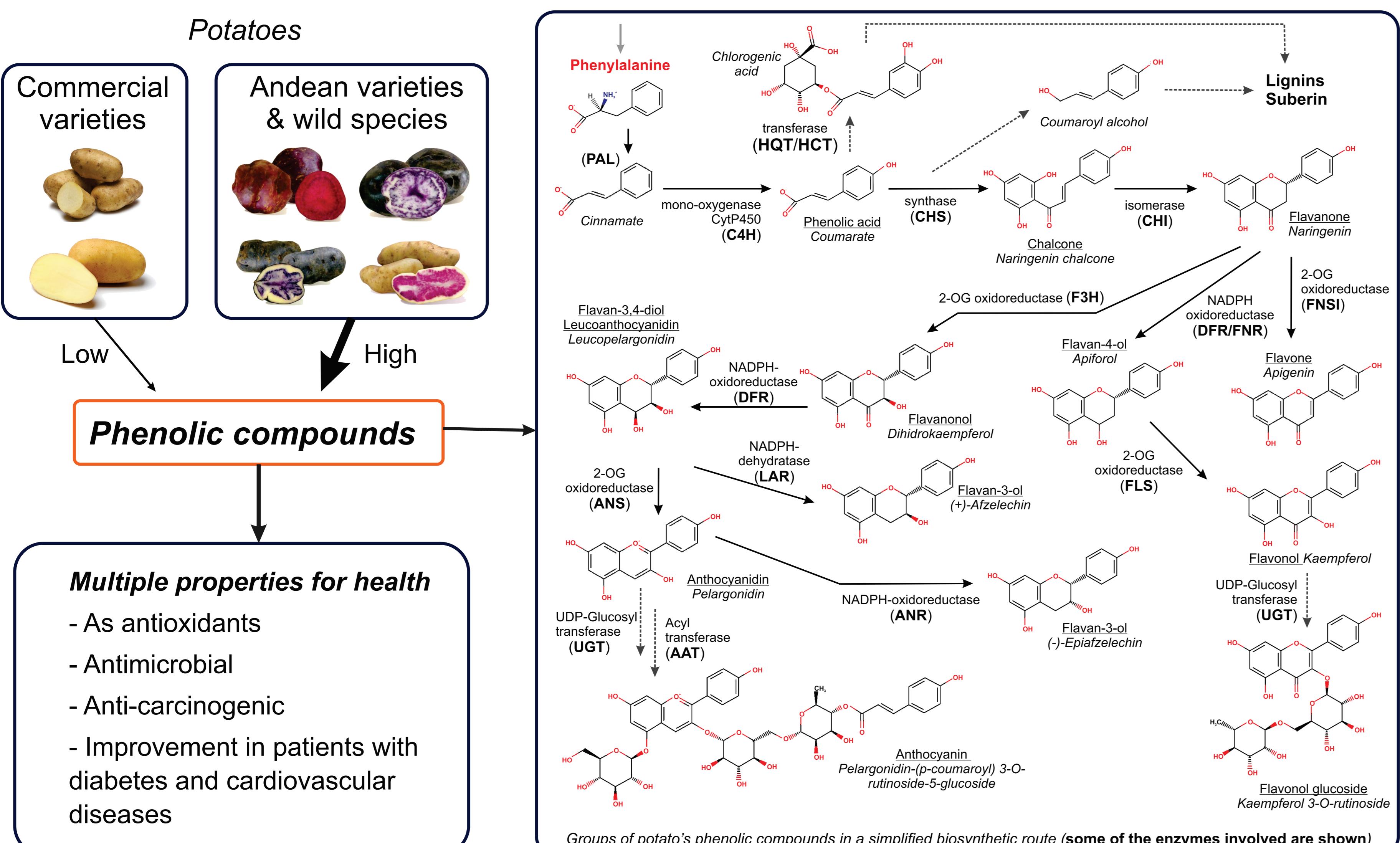


Development of a kinetic model of phenolic compounds pathway in potato tuber

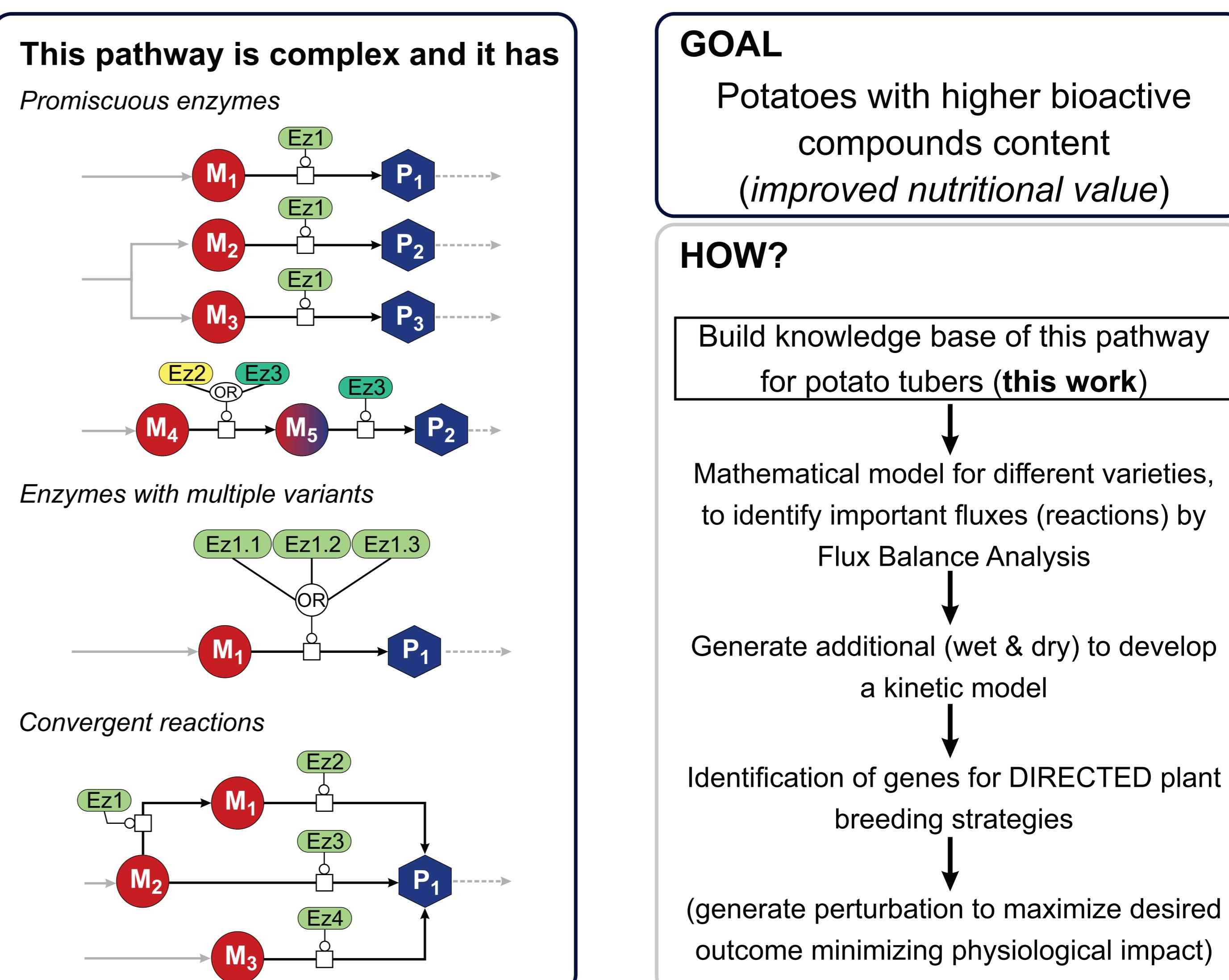
Step 1: The construction of a comprehensive knowledge base

Fernando Villarreal (fermza@gmail.com), M. Luciana Lanteri, Matías Valiñas, Adriana Andreu and Arjen ten Have

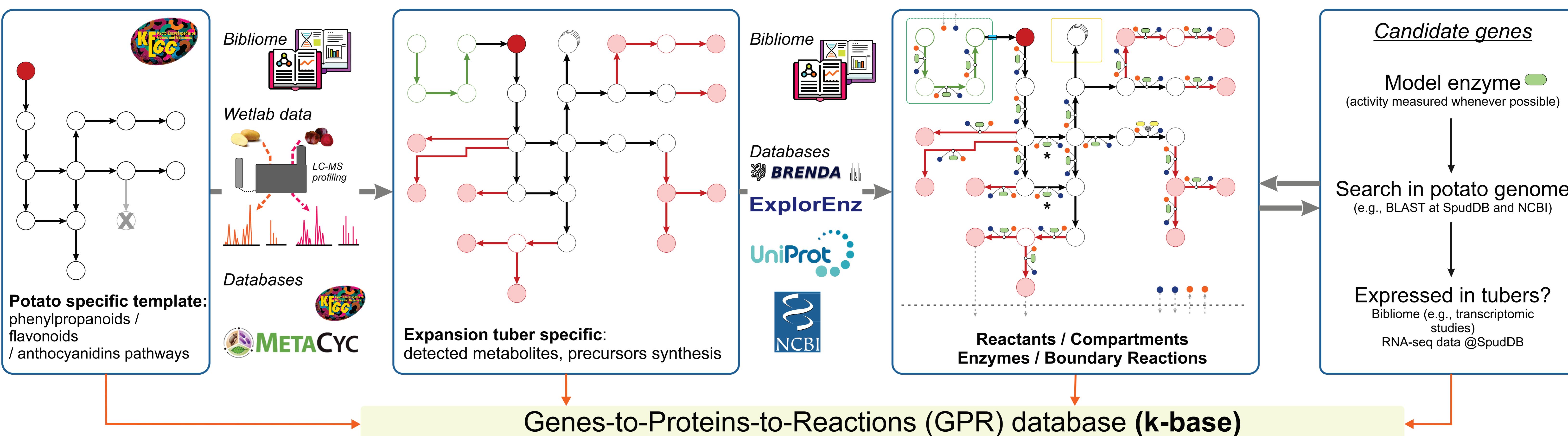
1 Motivation and problem



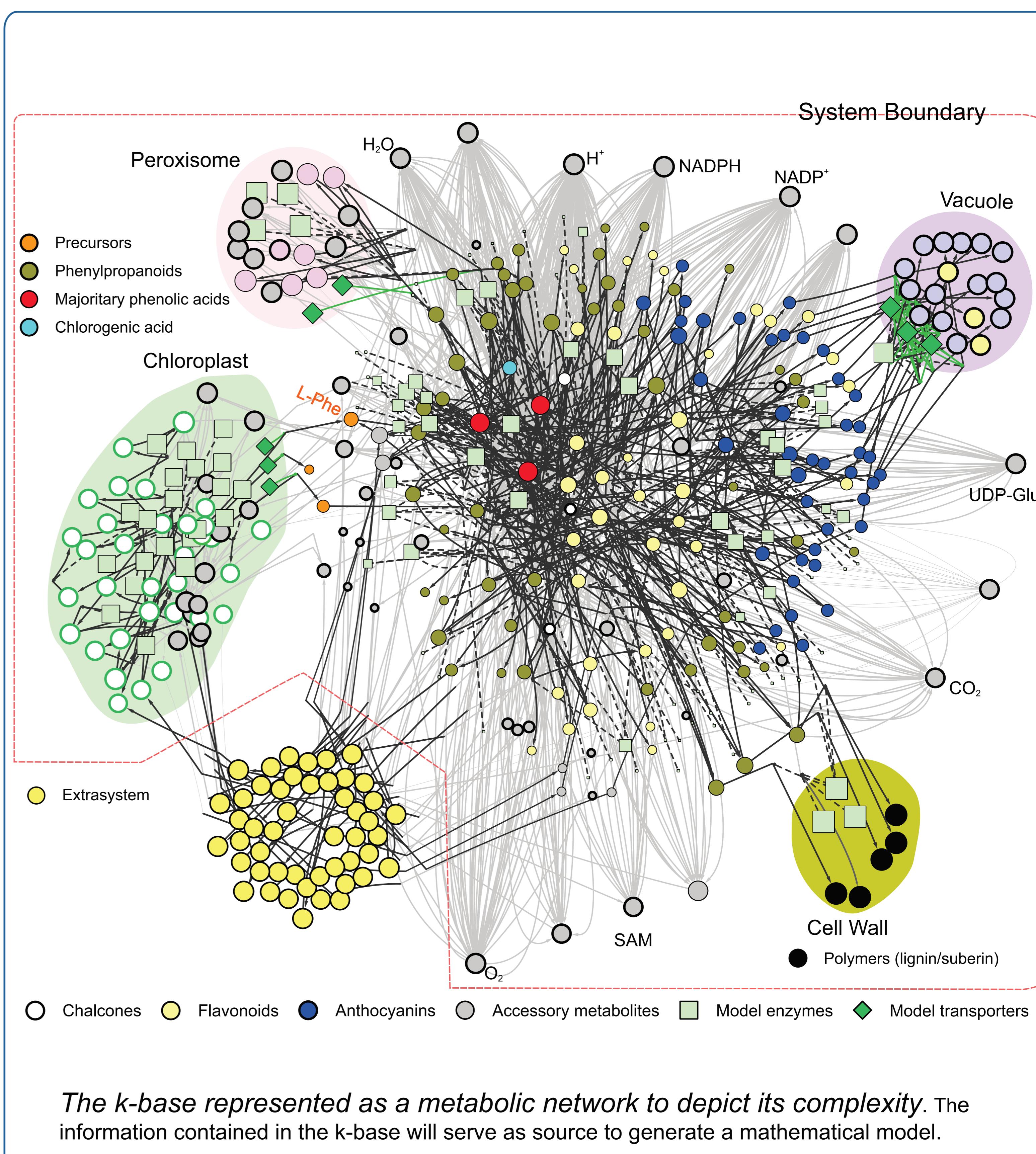
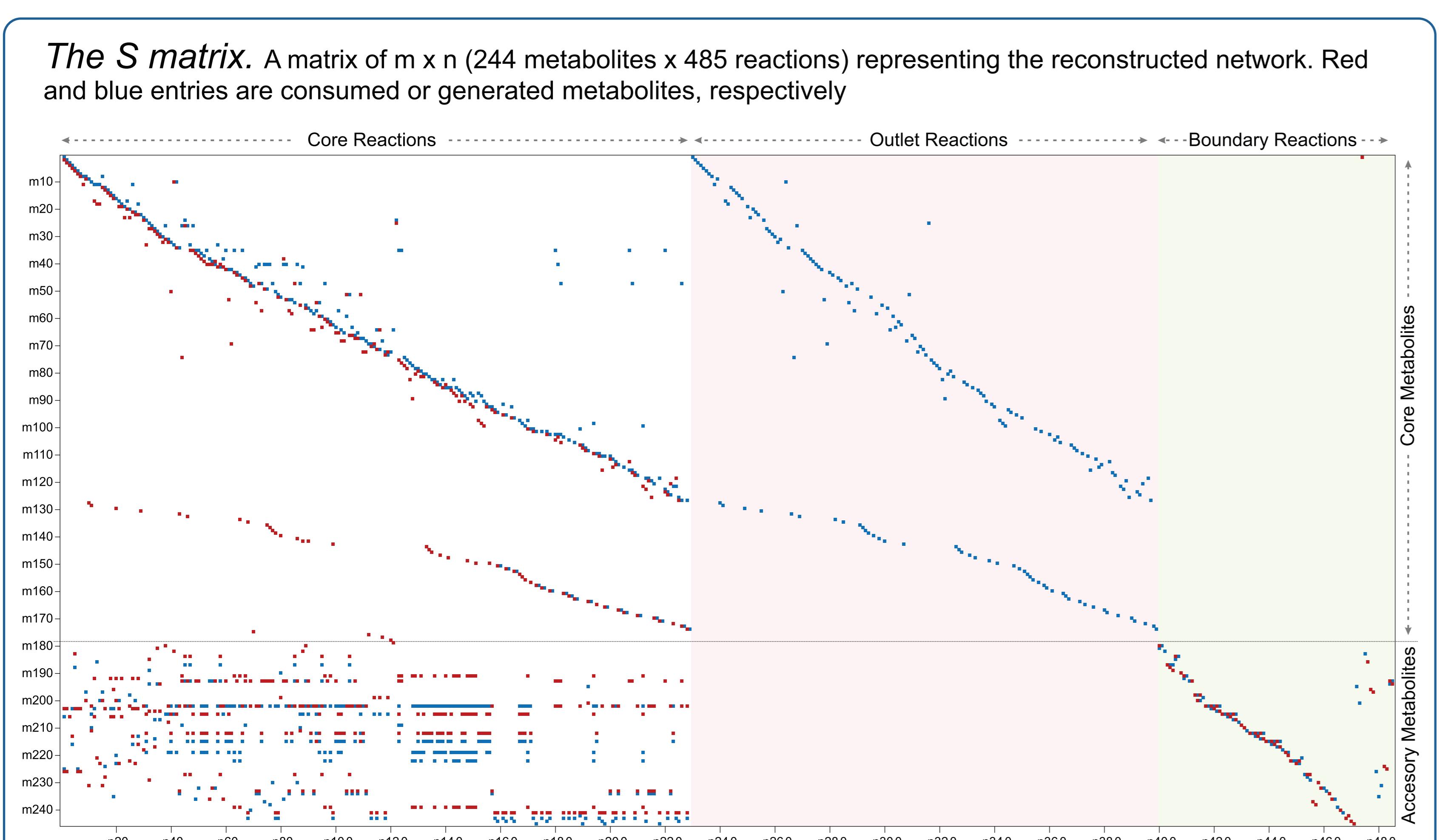
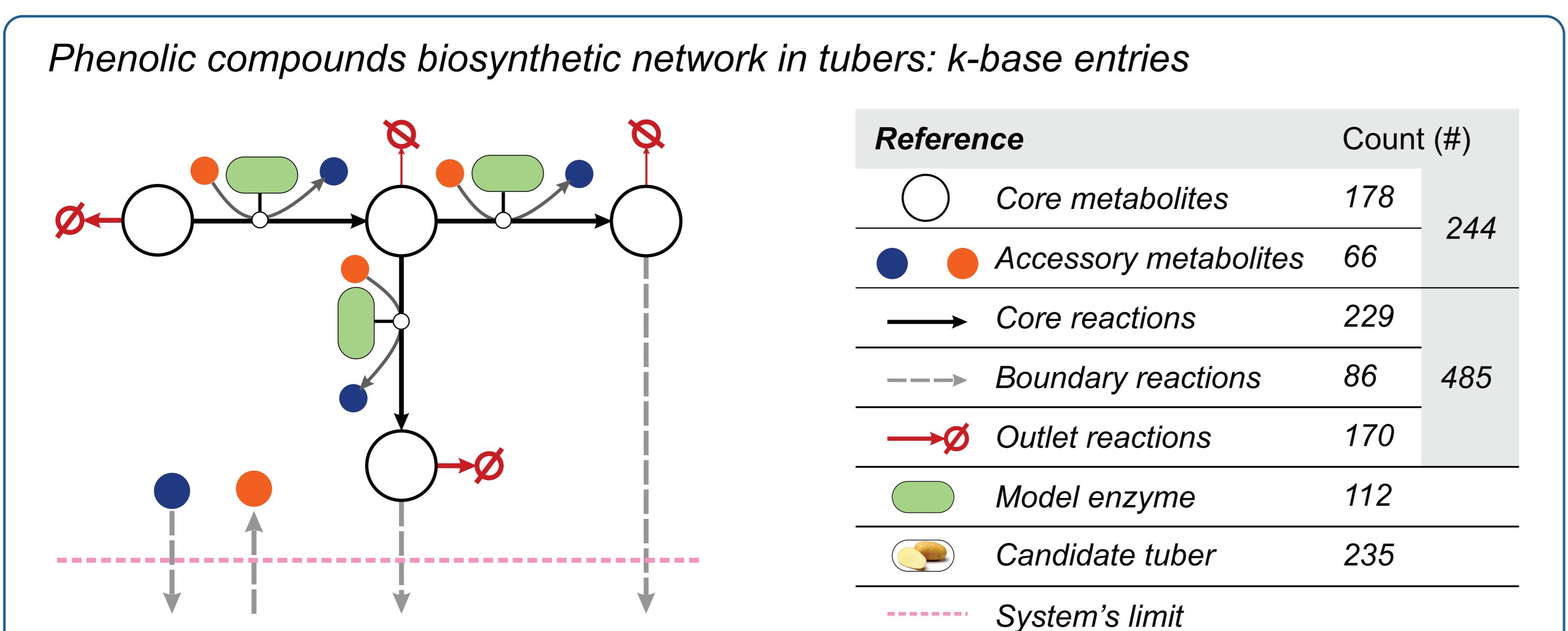
2 Project's aims



3 Network reconstruction: strategy to build a comprehensive knowledge base (k-base)



4 Resulting k-base: Metrics and Visual expressions



5 What's next?

- **Flux Balance Analysis**, a constraint-based mathematical model, will be used as initial approach
- Identification of gene variants in varieties and wild species (~250 genomes)
- Wetlab: genes expressed in tubers of different varieties (nanopore seq) expand metabolomics in tubers of different varieties