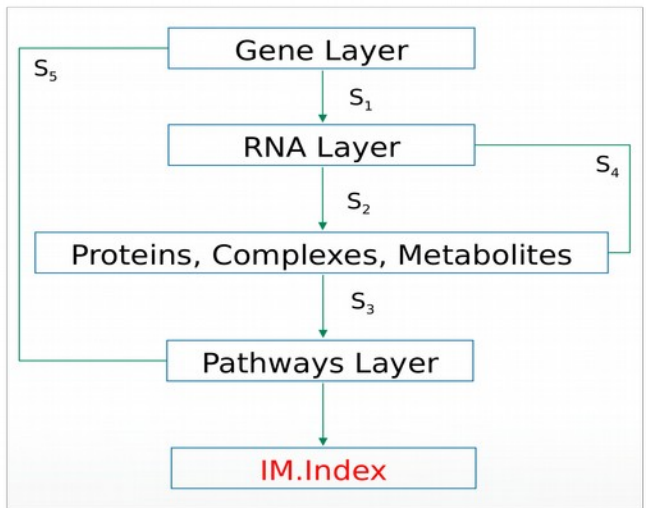
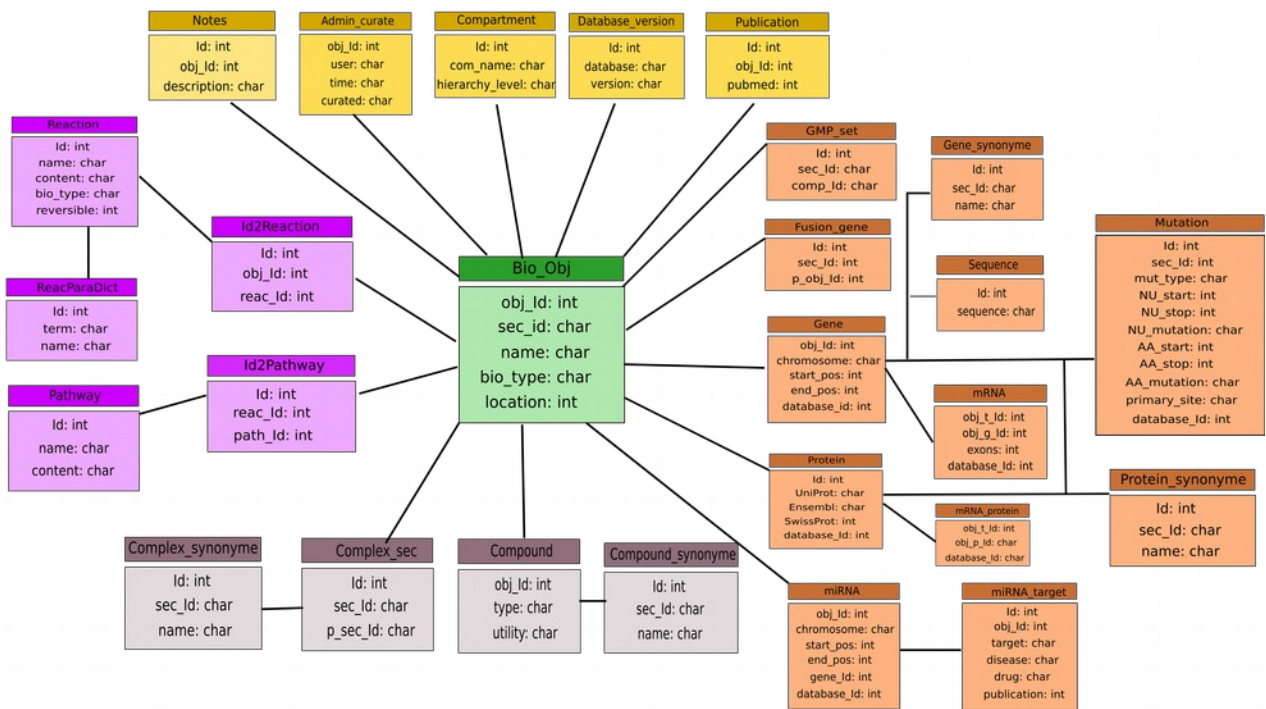


Supplement Figure 1: A. Four-level structure with IM.Index as output. **B.** Implemented database diagram based on four-level structure.

A



B



Supplement Figure 2: The map is termed PIML (pathway interaction map of leukocyte). Each element symbolizes a corresponding pathway containing up-, middle-, and downstream components including gene, RNA, protein, compound, and complex. Diverse components participate in different transcriptional and translational regulations to enable crosstalk between pathways.

