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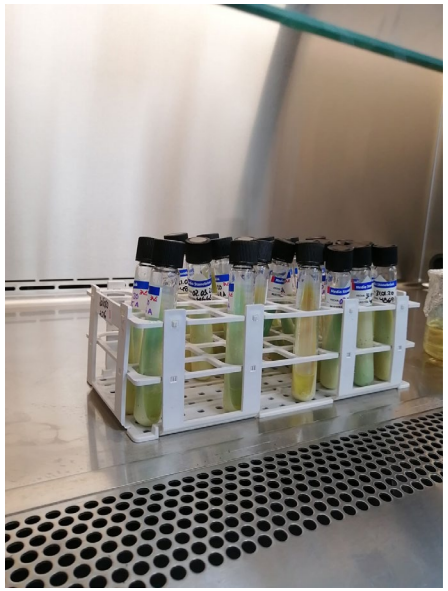
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Application of antigenic biomarkers for *Mycobacterium tuberculosis*

Key words: ***Mycobacterium tuberculosis,*** **Recombinant antigens, Diagnostics biomarker**

Research Summary

In this review, we summarize the state of the art in the study and use of Mycobacterium biomolecules with the potential to support novel tuberculosis control strategies, focusing in:



- **Omics approaches to identify tuberculosis (TB) biomarkers**
- ***M. tuberculosis* antigenic biomarkers and their application to prevent TB**



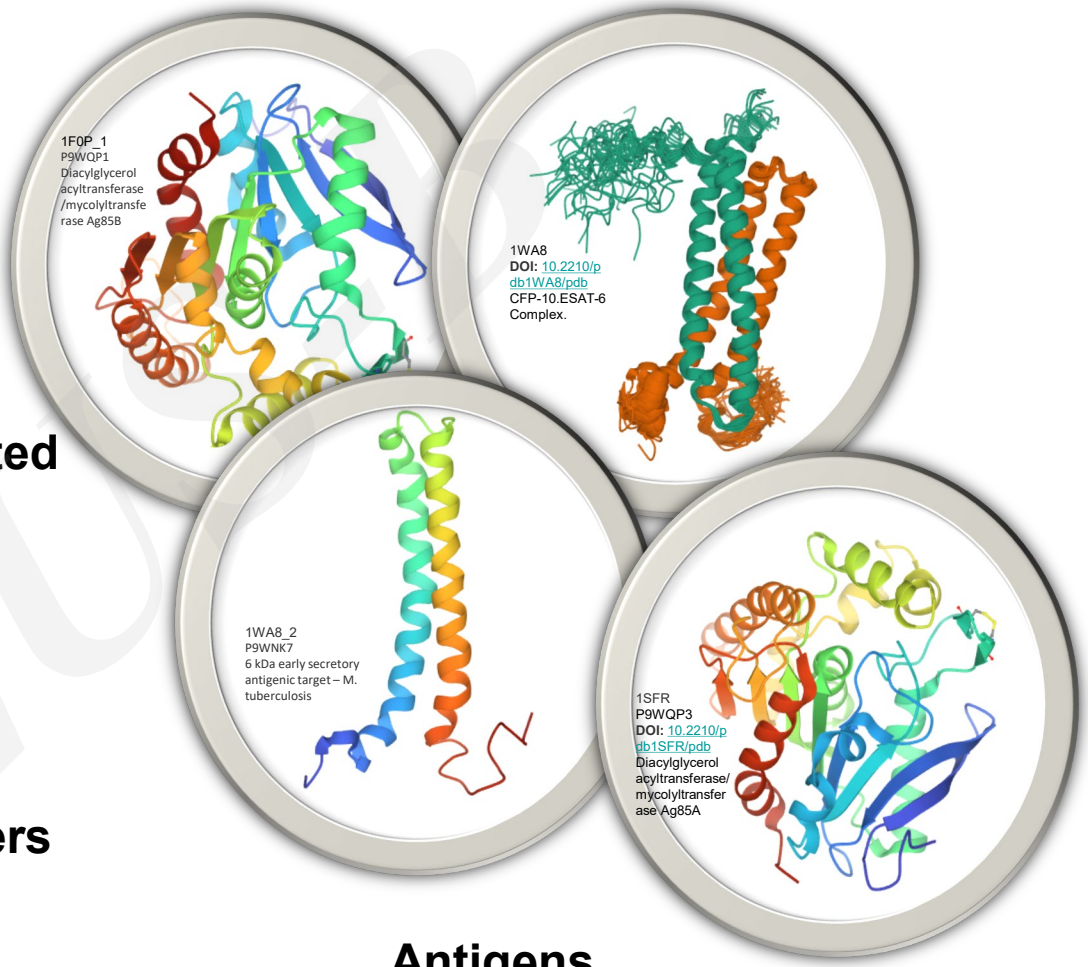
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Innovation points

- **Introduction** of some immunogenic antigens and its potential use for TB control

- **Summary** of the most updated research of antigenic molecules used for TB control.

- **Emphasis** of the omics approach to identify TB biomarkers



Antigens

RCSB PDB PROTEIN DATA BANK
https://www.rcsb.org/pdb/static.do?p=general_information/about_pdb/index.html

Innovation points



We shown a table to summarize the latest knowledge about biomarkers for TB.



Table 1 | Recombinant TB antigens included in TB vaccines and diagnostics assay

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