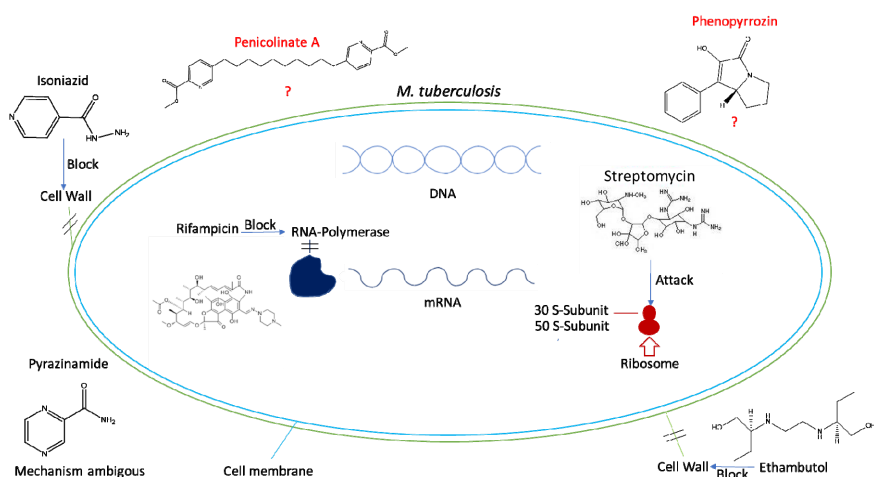


Bioactivity of natural products against *Mycobacterium tuberculosis*



In this project, the bioactivity of natural products against *M. tuberculosis* is identified.

Tuberculosis is an ancient and deadly disease, which can lead to multiple organ failure if patients are not treated with proper pharmacotherapy. Especially for HIV-patients, TB represents a huge hazard that needs to be eradicated.

Unfortunately, the plans of the World Health Organization to almost control this disease, by reaching 95% reduction of deaths and 90% decrease of TB incidence rate, seem to be utopic at the moment. One reason is the emergence of many resistances against first line drugs and even second line drug therapy. That is why new, innovative antitubercular drugs are urgently required. Natural products as Gliotoxin show high potential in effecting *M. tuberculosis*, but in many cases, they also attack human cells as well.

Therefore, cytotoxicity assays need to be performed as a part of this project to evaluate risk and benefit of the promising substances for patients.

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