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### Host oriented inherent measures and eukaryotic parasite countermeasures

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The recognition and elimination of eukaryotic parasites appear to be a hardwired prerequisite for host survival. However, eukaryotic parasites such as *Toxoplasma gondii*, *Leishmania* sp., *Trypanosoma cruzi*, *Giardia* sp., and *Schistosoma* sp. employ the innate system of the host for their growth, replication and continuation of their life cycle. So far, however, there has been little discussion about the interaction of the eukaryotic parasites and the innate immune system. Driven by this need, this review provides an overview of the host oriented inherent measures and eukaryotic parasite countermeasures for evading host defenses. Taken together, this information could be exploited to discover new therapeutic and prophylactic intervention points for broad spectrum host oriented inherent measures and eukaryotic parasite countermeasures and to determine the infection consequence.

### Onychomycosis: Pathogenesis and diagnosis

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Onychomycosis is a major public health problem with a high incidence. The aim of this study was to determine the prevalence of various causative agents of onychomycosis and the pathology associated at this infection in Tlemcen city in Algeria.

A prospective study was conducted from September 2015 to March 2016 in university hospital center of Tlemcen in Algeria. The nails were evaluated clinically and the nail samples were subjected to direct microscopy and culture. 73% samples were found to be positive by direct microscopy and culture. Diabetes, circulatory disorders, trauma, immunodeficiency diseases, psoriasis and malposition of the toes are the pathology associated to onychomycosis. Distolateral subungual onychomycosis was the most common clinical type of infection which was seen in 74,73% patients. The aetiological agents were yeasts (63,33%) and dermatophytes (36,67%). Among dermatophytes, *Trichophyton rubrum* was the commonest aetiological agent.

In our study, the mycological examination is the key for the positive diagnosis of onychomycosis. Although yeasts were the main causative agents.