

The strategy we presented here for the selection and recruitment of different phenotypes related with *Leishmania* infection, is used in the context of the RAPSODI project whose goal is to develop a human-compatible vaccine based on PSA antigens. The precise definition of these human groups using fully ethical compliant procedures and according to inclusion and exclusion criteria is associated with several benefits such as improvement of surveillance and early detection of the disease, reduction and control of potential risks (blood testing, skin biopsy of CL lesions..) and establishment of some procedures allowing a better control of biological material transfer between the different partners. Furthermore, this could help to better distinguish between the two “resistant” phenotypes: asymptomatic and cured, which is not always easy to establish, especially in the case of dermotropic *Leishmania* species. A precise definition of these groups is of great help for the identification of immunologic factors that control susceptibility vs resistance to *Leishmania* infection, which are still not fully clarified.