

## **Neutralizing antibodies and host-pathogen interaction for vaccine design against *Toxoplasma gondii***

The parasite *Toxoplasma gondii* is a prevalent single-celled eukaryote that causes toxoplasmosis, a food-borne zoonotic disease that has life-threatening potential in cases of immune-suppressed individuals and of unborn fetuses. Currently, no effective treatment of toxoplasmosis is available, raising the need to develop a vaccine for protection against *T. gondii*. The goal of this project is to identify and characterize potent antibodies (Abs) neutralizer against the pathogen. Monoclonal Abs (mAbs) isolated could be of use as potential prophylactic treatment for seronegative pregnant woman. Moreover, identification of key antigens and epitope from the parasite will represent an opportunity for vaccine development.