

## LAB RESULTS SUMMARY, SECOND WEEK The role of the ASP3 gene on *Toxoplama*'s egress process



### ASP3 knockdown impacts Ca<sup>2+</sup> induced egress

#### Egress Assay - Ca<sup>2+</sup> ionophore induced



Ca<sup>2+</sup> ionophore, 7 minutes



# Methods



#### IFA

#### With **permeabilization**

(primary Ab: anti-GAP45, secondary Ab: anti-rabbit-Alexa594) (primary Ab: anti-GRA3, secondary Ab: anti-mouse-Alexa488)



#### Control: +DMSO -ATC; -A23187



Parasites in the parasitic vacuole

Results -ATC; +A23187 (in DMSO)



Parasites out of the parasitic vacuole

## +ATC; +A23187 (in DMSO)



Parasites in the parasitic vacuole

# Conclusion

A23187 calcium ionophore can induce the egress process of *Toxoplasma gondii* 

The AsP3 plays a role in T. gondii egress process

The AsP3 can be knoked out with ATC in T. gondii and thus the protease can be targeted in drug design

# THANK YOU