## The immune system's role in the body is more than just fighting off infections.

Immune system function is important to early development, tissue maintenance, and healthy aging. An antibody is part of the immune system that identifies threats from foreign substances like bacteria or viruses.

Sometimes antibodies react to the body's own cells as a a threat.



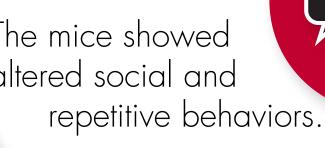


Nearly 20% of mothers of autistic children have a particular pattern of autoantibodies.



Mice exposed to these autism-related maternal autoantibodies had an increased brain size.

The mice showed altered social and





Some parts of the brain, like the amygdala and white matter, were more affected than others.

Male and female offspring were affected differently.



Maternal autoantibodies directly impact brain growth and development. This may underlie the development of autism in some individuals.

Researchers looked at

the effect of maternal

autoantibodies on brain

development in mice.

Next, we hope to understand how these autoantibodies lead to these outcomes so we can to improve early identification and access to services to improve the lives of autistic individuals.