Dr. Salehi is a neurobiologist working on identifying molecular mechanisms of neurodegenerative disorders including Alzheimer's disease and Down syndrome. In this process, he uses pre-clinical experiments to test the effects of already-approved drugs in improving cognitive function in the mouse models with hippocampal degeneration. In 2010, he received the World Technology Award for the innovative use of mouse models of Down syndrome to identify genes responsible for cognitive disabilities. Recently, he found that increasing beta2 adrenergic signaling would improve cognitive function in a mouse model of Down syndrome. Accordingly, in a collaborative study, he is testing whether already-approved beta2-adrenergic receptor agonists can indeed improve cognitive function and reduce the severity of pathology in individuals with mild to moderate Alzheimer's disease.

Selected Publications


