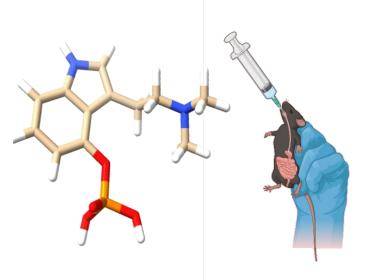
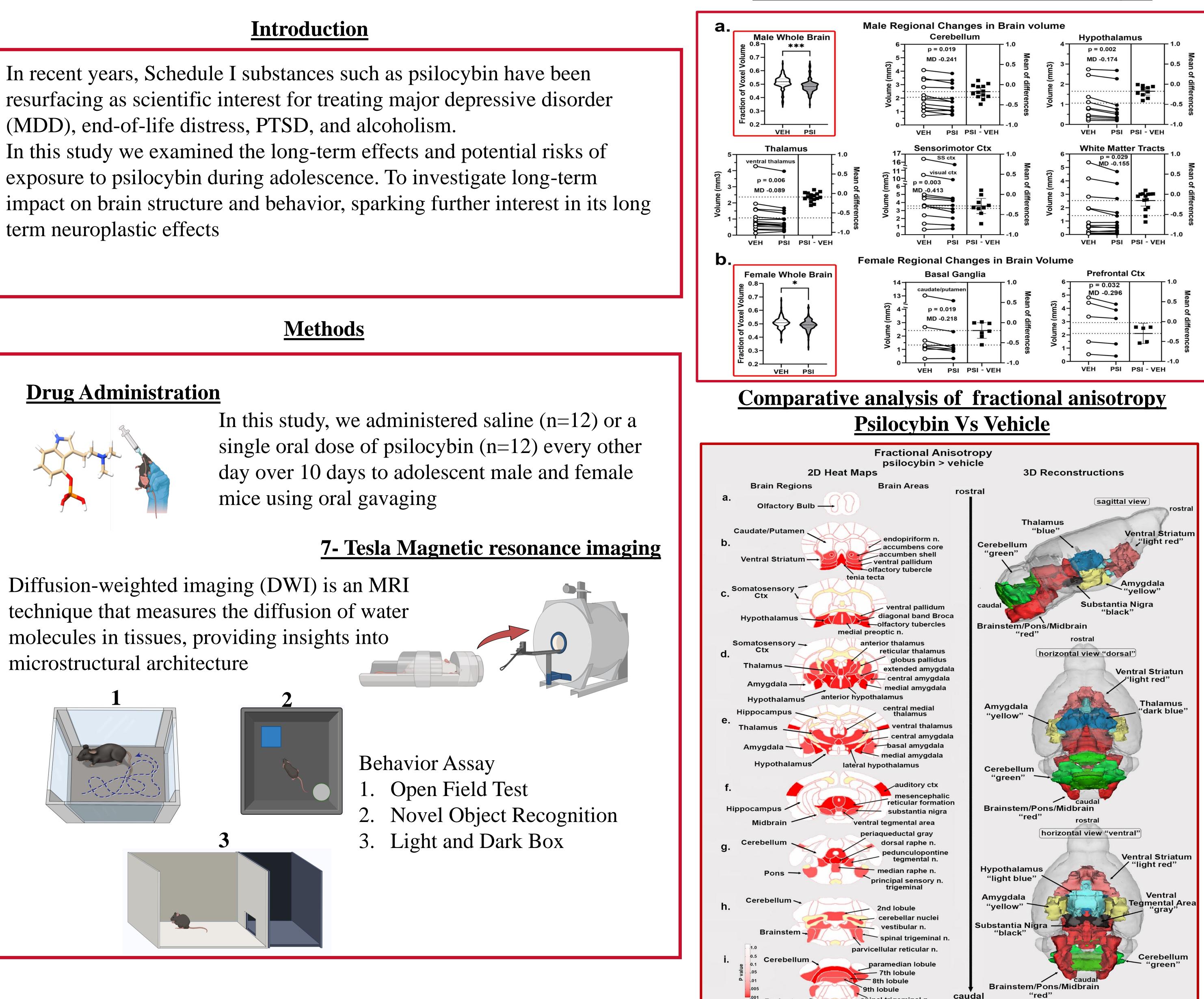
# RESEARCH INNOVATION SCHOLARSHIP ENTREPRENEURSHIP

## **Changes In Brain Structure And Function Following Exposure Of Psilocybin During** Adolescence

term neuroplastic effects



Diffusion-weighted imaging (DWI) is an MRI technique that measures the diffusion of water molecules in tissues, providing insights into microstructural architecture



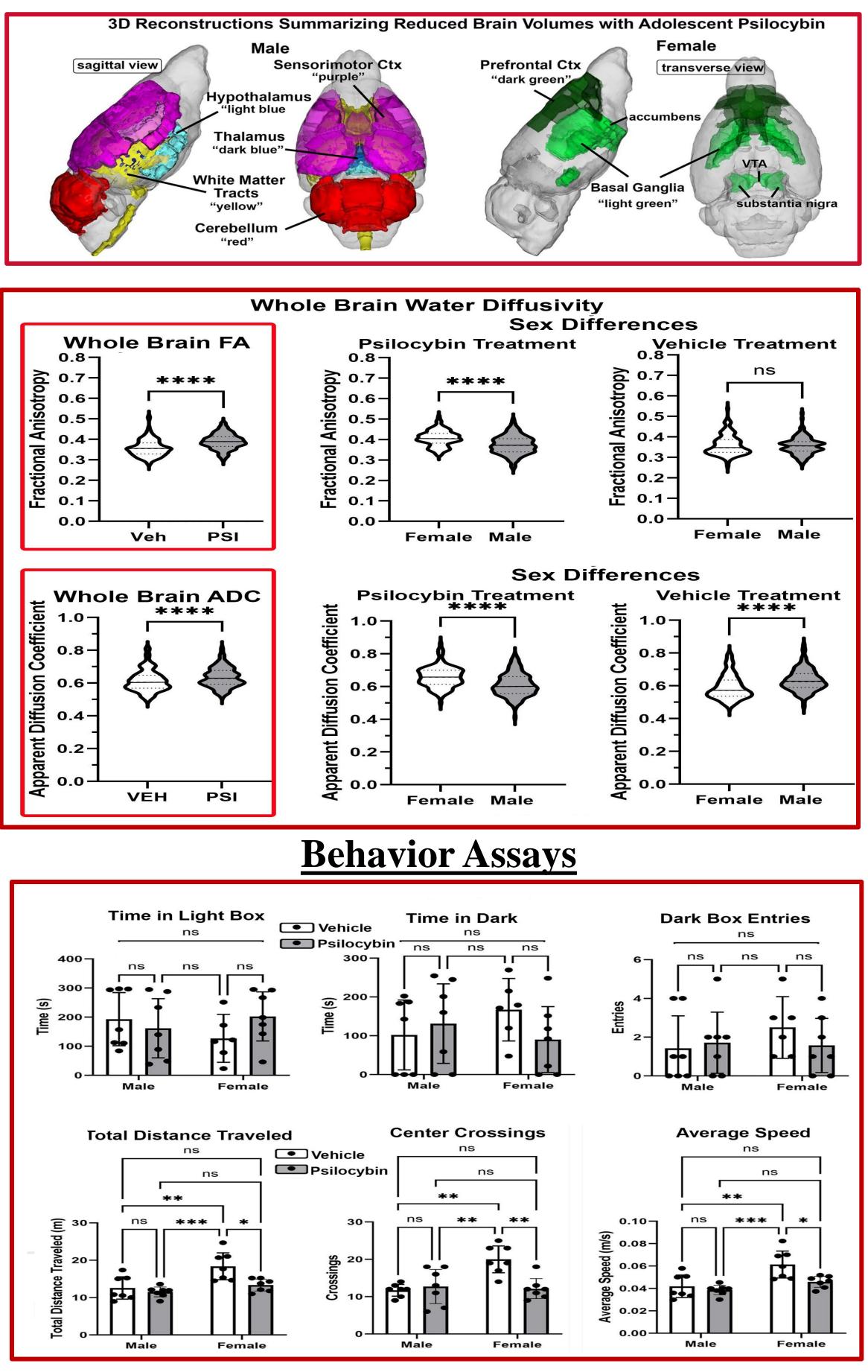
Brainste

## Submission ID: 533 Mentor Name: Craig Ferris, Ph.D. Graduate

Praveen Kulkarni, Ph.D., Craig Ferris, Ph.D.

## Northeastern University

## Ashwath Maheswari, Tochi Chukwuemeka, Eric Brengel, Bryce Axe, Rachel Utama, Jyot Pandit, Sairam Masadi Sex based difference in volumetric Analysis



Long lasting changes in hyper connectivity and neuroplasticity. Significant Changes in Sex based difference in whole brain diffusivity and volumetric morphometry Potential exploration for Immunohistology in mouse brain tissue and western blot.

Thanks to National Institute on Drug Abuse for providing the psilocybin and Ekam Center for our MRI imaging technology

## Conclusion

