



John Talbott

Sally McDaniel ARCS Light Award
Ph.D. Student, Chemistry
Second Year ARCS Scholar

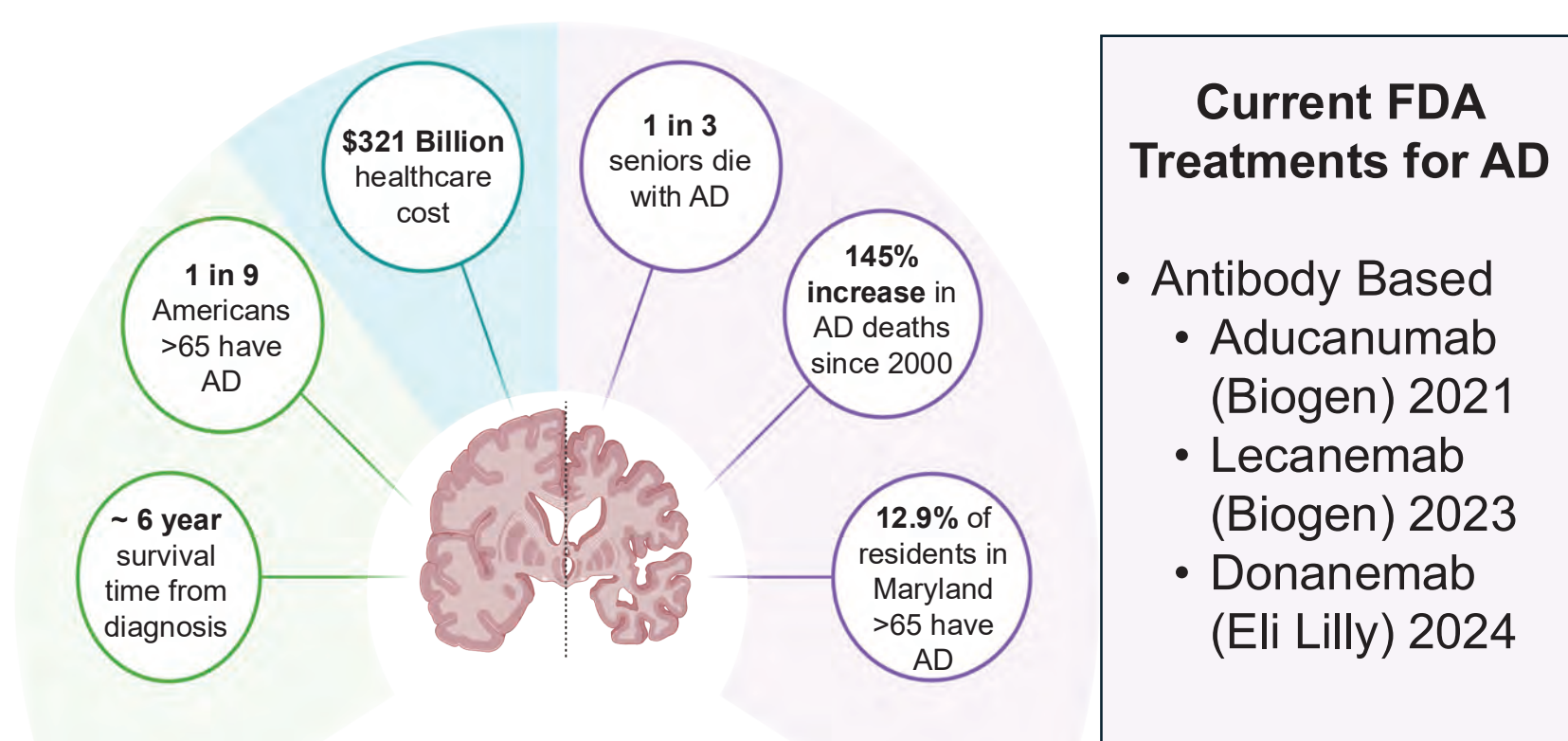


EMORY
UNIVERSITY

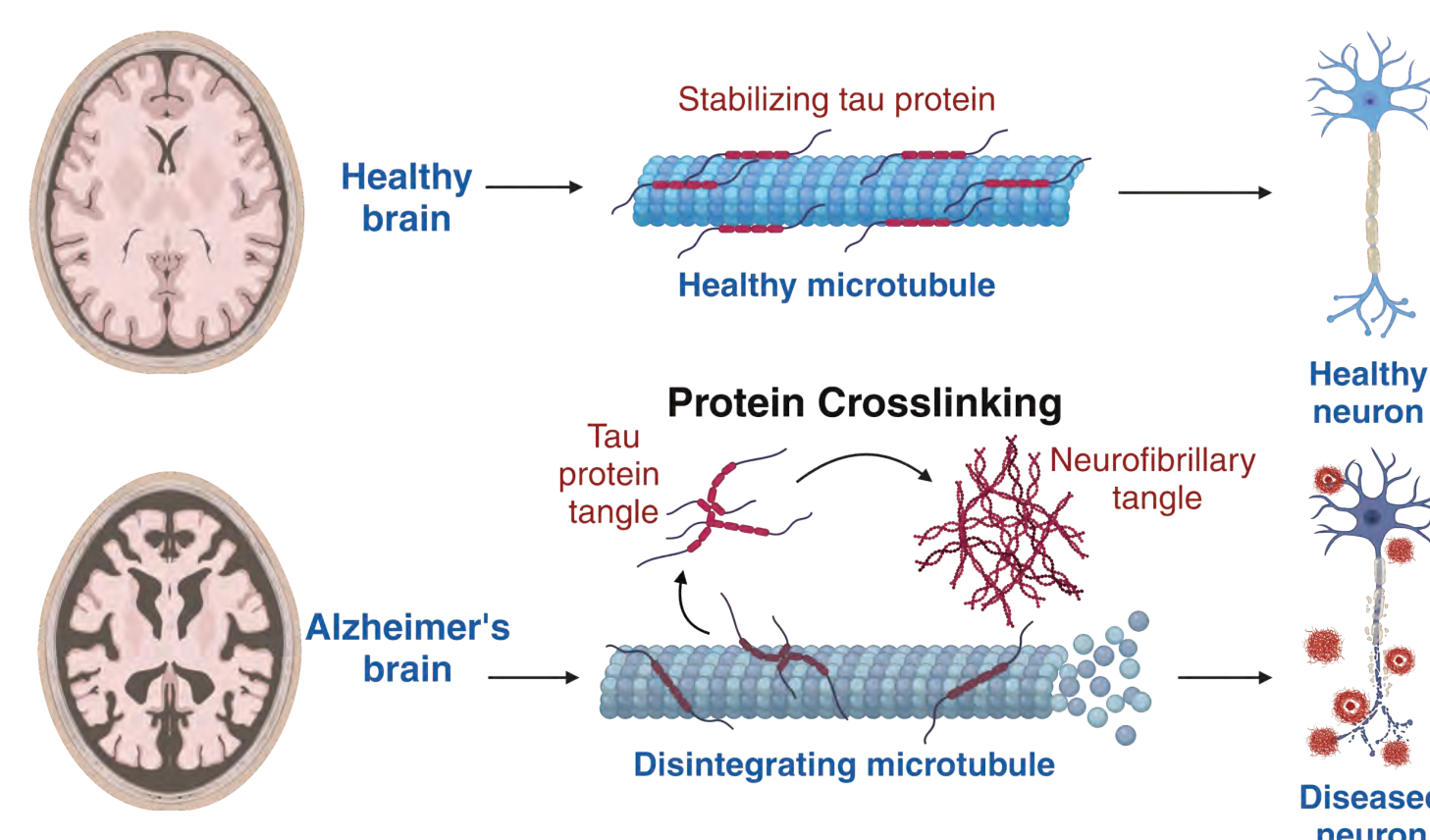
Selective Visualization of Catechol Aldehydes in Living Systems as a Biomarker for Alzheimer's Disease

Utilizing organic chemistry, we have developed a novel fluorophore system to specifically detect catechol aldehydes, a biomarker for neurological diseases, in mice tissue and post-mortem human tissue.

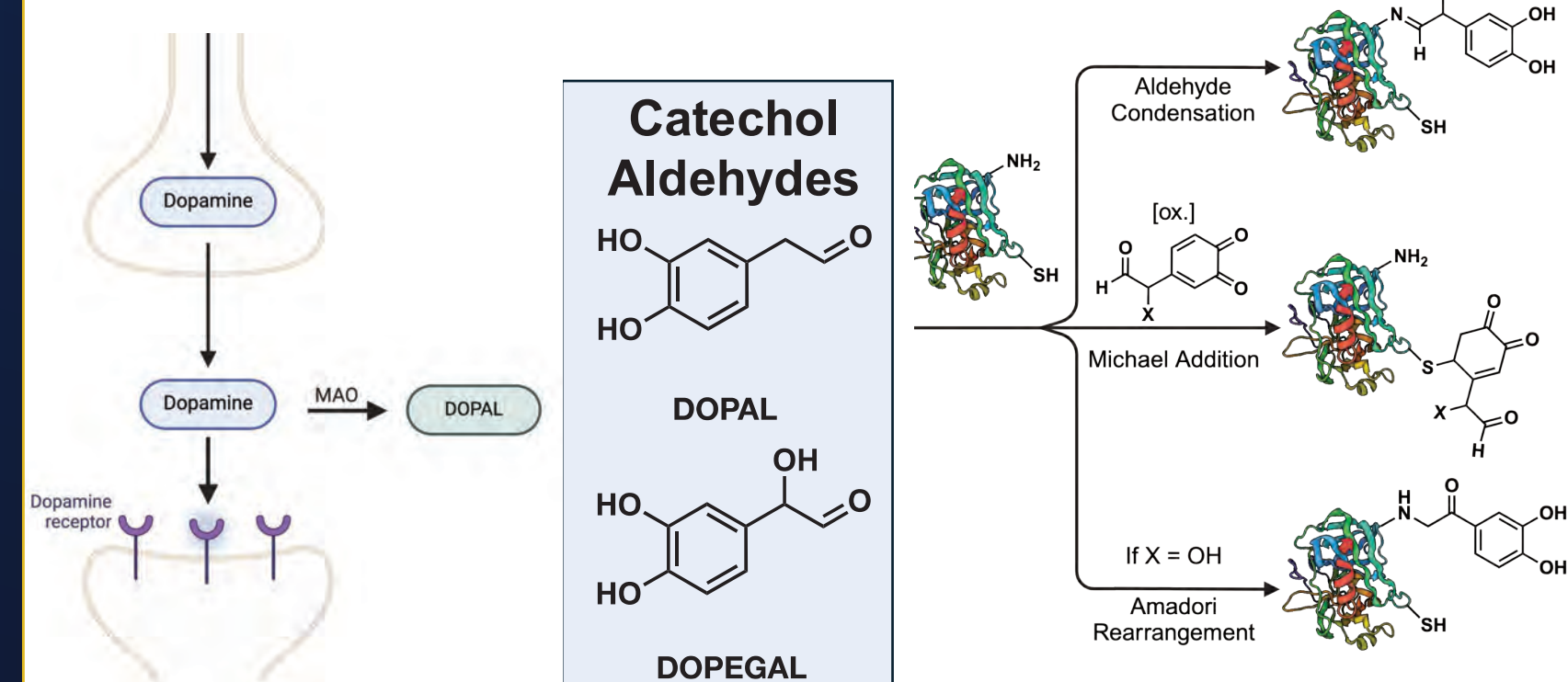
Alzheimer's Disease: Health Crisis



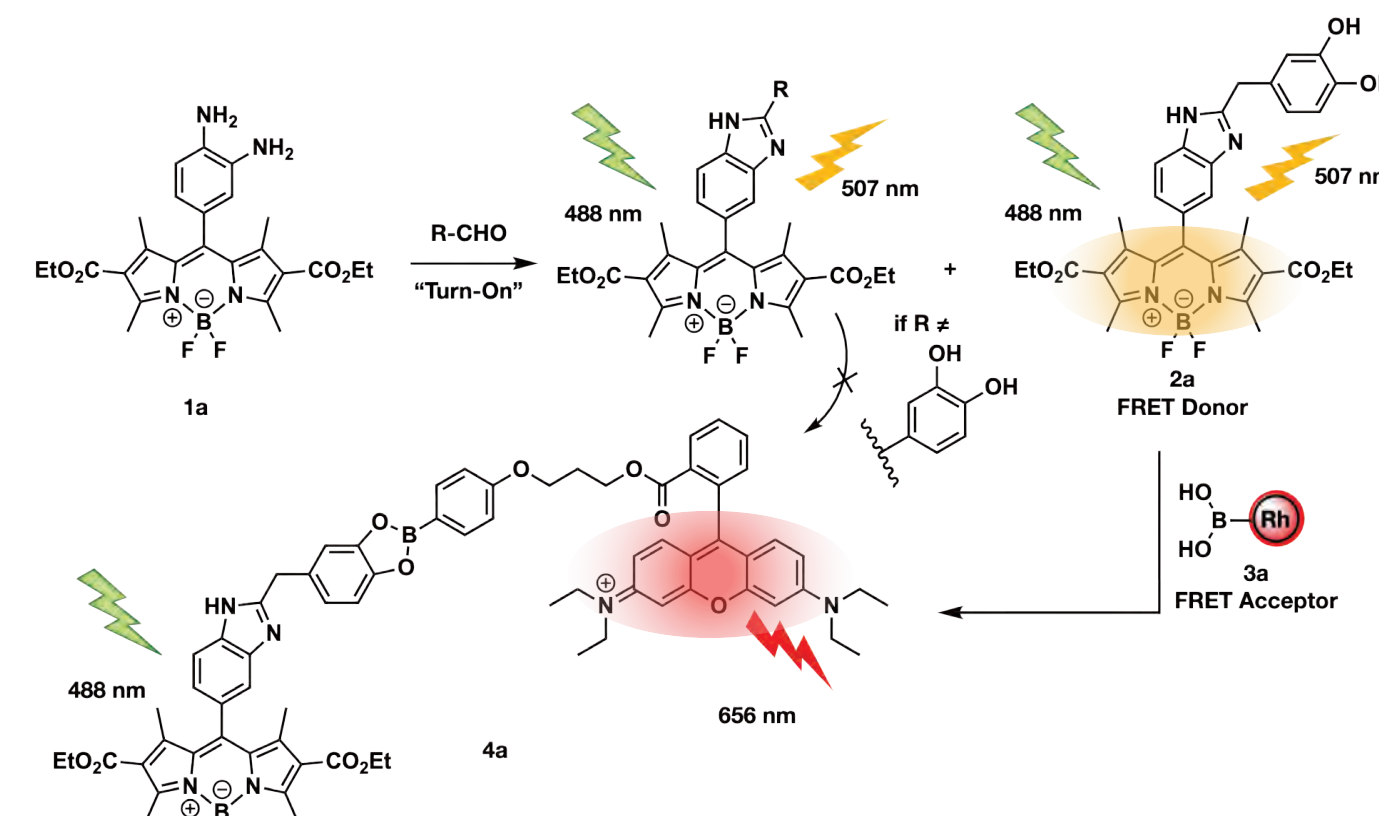
Alzheimer's Results from Protein Crosslinks



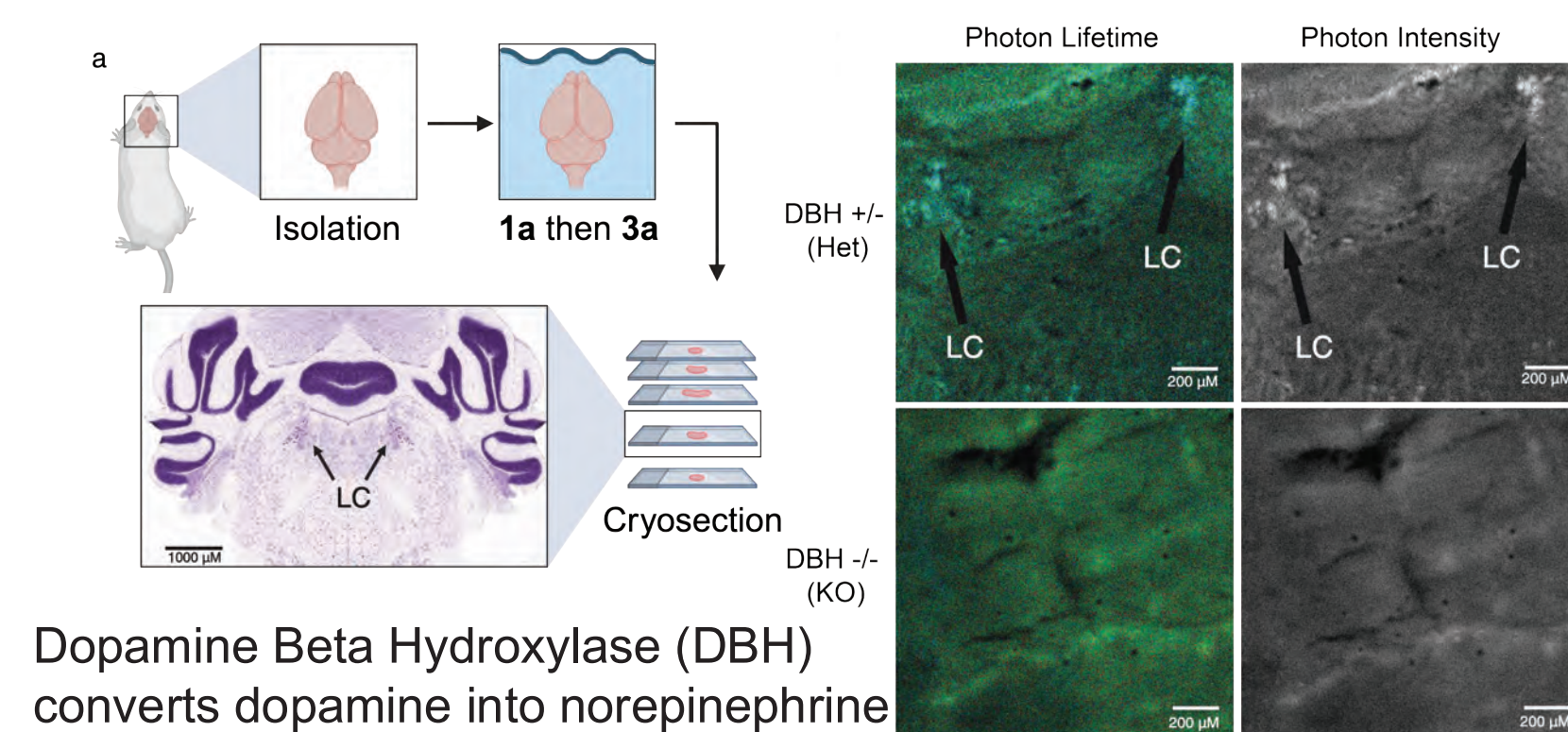
Catechol Aldehydes Crosslink Proteins



FRET System for Catechol Aldehydes



Mice Locus Coeruleus (LC) Tissue Imaging



Future Studies

