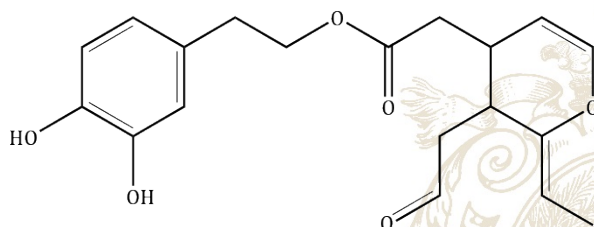


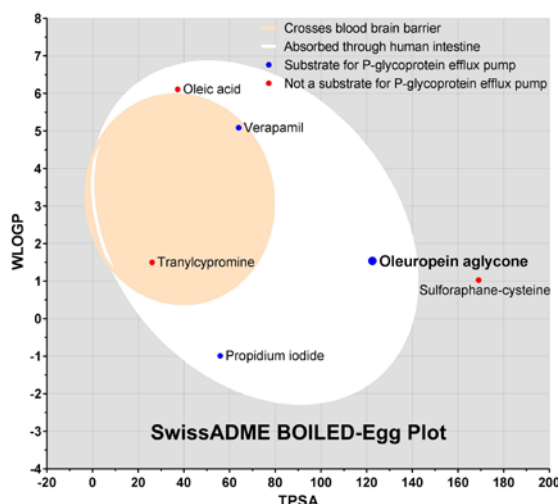
OliveNet™ Newsletter

Molecule of the month

Oleuropein aglycone



Oleuropein aglycone is a hydrolysis product of oleuropein, a major compound found in the olive. Interestingly, it has been found to interfere with tau and amyloid- β proteins, which tangle and accumulate in the brain in Alzheimer's disease. Hence, oleuropein aglycone is being studied as a potential drug to treat Alzheimer's disease.



We analysed oleuropein aglycone using SwissADME and the results indicate that oleuropein aglycone is absorbed through human intestines, and is not predicted to cross the blood-brain-barrier. The analysis indicates that oleuropein aglycone is a substrate for the P-glycoprotein pump, and was also shown to not inhibit certain liver isoenzymes.

Julia Liang's recipe of the month

Roasted pumpkin and garlic hummus

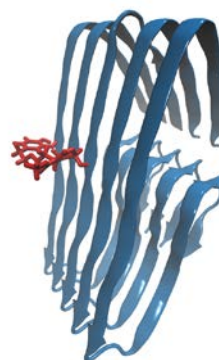
Apart from being a talented McCord Research molecular modelling scholar, Julia Liang is an avid "foodie". This month Julia has prepared a roast pumpkin and garlic hummus – a simple dip that's sure to be a crowd pleaser!



[Approximate calculations: Total EVVO = 45 mL (42 g); Serves 8. Per serve = 46 calories (or 4.6% of 2,000 calorie diet), 5.6 g EVVO (or 11% of typical daily recommendation), ~1.4 mg olive polyphenols (assuming 250 mg/kg in average EVOO)].

For further details please see our [OliveNet Library Facebook page](#) and visit [Julia's Cooking](#)

McCord Research in action



Molecular modelling performed by our team at RMIT University has studied the neurodegenerative properties of compounds from OliveNet™. The image here shows oleuropein aglycone bound to a 42 residue amyloid- β oligomer, a major component of amyloid plaques found in Alzheimer's disease.