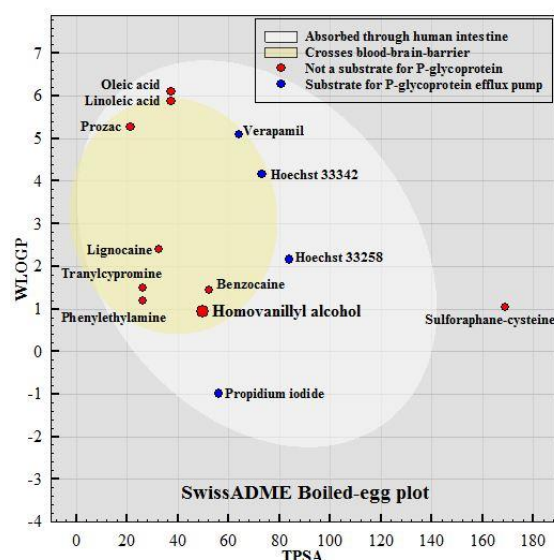


*OliveNet™ Newsletter***Molecule of the month****Homovanillyl alcohol**

Like the previous month's molecule of the month, hydroxytyrosol acetate, homovanillyl alcohol, is not as well characterised as the key antioxidant, hydroxytyrosol. However, apart from a critical role in the brain in the dopamine pathway (pleasure), homovanillyl alcohol has been shown to have beneficial effects in cardiovascular disease and total mortality. (De la Torre R, et. al. Am J Clin Nutr. 2017 Jun;105(6):1297-1304).



We analysed homovanillyl alcohol using SwissADME software. The results indicate that homovanillyl alcohol is predicted to be absorbed through human intestines, crosses the blood-brain-barrier, and is *not* a substrate for the P-glycoprotein efflux pump.

Global Research Highlight

Wound healing: Essential oil-loaded lipid nanoparticles show potential for improved wound healing in a full-thickness burn model. In an interesting approach, a recent study has utilized a blend of cocoa butter as a solid lipid and olive oil as liquid lipid to incorporate essential oils, including eucalyptus, to create nanoparticles using lecithin as a surfactant. Following characterization of the nanoparticle formulations, the wound healing properties were examined using cell culture and in vivo model systems. [Saporito et. al. Essential oil-loaded lipid nanoparticles for wound healing. International Journal of Nanomedicine 2018;13 175–186].

Julia Liang's recipe of the month**Hot cross buns**

Apart from being a talented McCord Research molecular modelling scholar, Julia Liang is an avid "foodie". This month Julia has prepared hot cross buns with olive oil – it's almost Easter! For further details please see our [OliveNet Library Facebook page](#) and visit [Julia's Cooking Revista](#).



[Approximate calculations: Total EVVO = 32 mL (30 g); Serves 12. Per serve = 150 calories (or 7.5% of 2,000 calorie diet), 2.5 g EVVO (or 5% of typical daily recommendation), ~0.63 mg olive polyphenols (assuming 250 mg/kg in average EVOO)]

* All of Julia's recipes are tried and tested.

McCord Research in action

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OliveNet™: a comprehensive library of compounds from *Olea europaea*
Natalie P Bonvino, Julia Liang, Elizabeth D McCord, Elena Zafiris, Natalia Benetti, Nancy B Ray, Andrew Hung, Dimitrios Boskou, Tom C Karagiannis

Database, Volume 2018, 1 January 2018, bay016,
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Publication notice

As a result of a large and fruitful collaborative effort between our teams from McCord Research headquarters in Iowa (USA), our Melbourne laboratory, Dr Andrew Hung's team (from RMIT University), and Professor Dimitrios Boskou (Aristotle University), our OliveNet database publication has been accepted and awaiting PubMed designation.

In the meantime, the manuscript can be accessed at Oxford Journals (screen grab).