

## Supplementary Materials

# Correlation between Fatty Acid Profile and Anti-Inflammatory Activity in Common Australian Seafood by-Products

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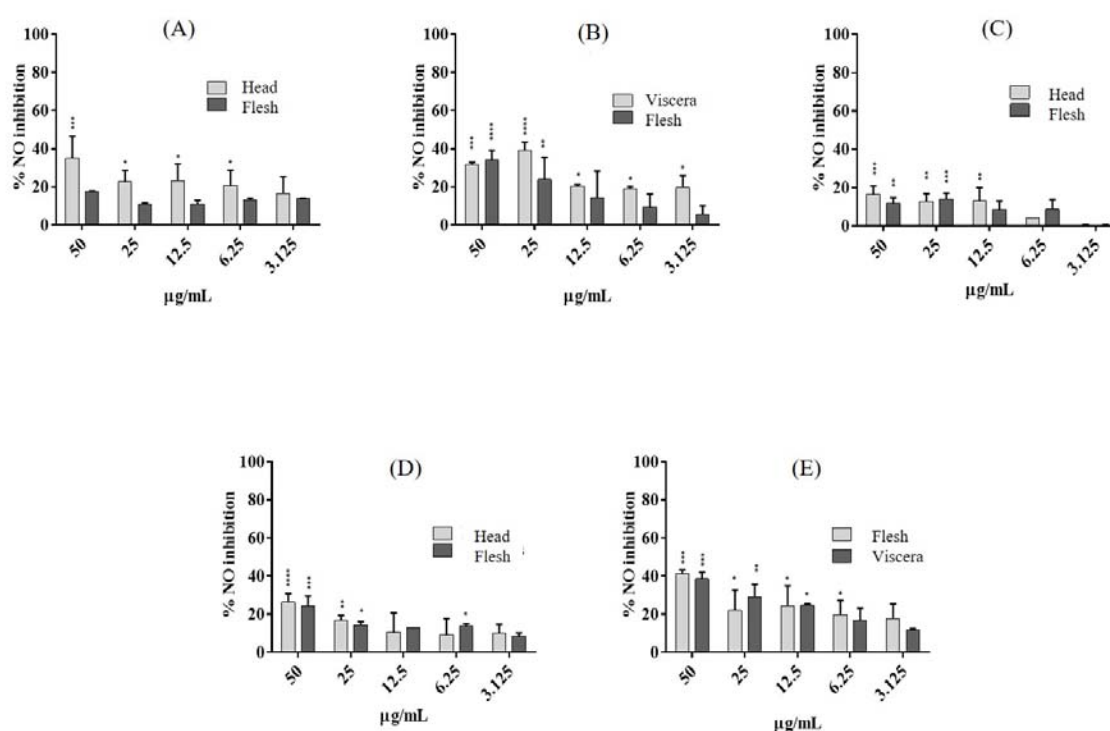
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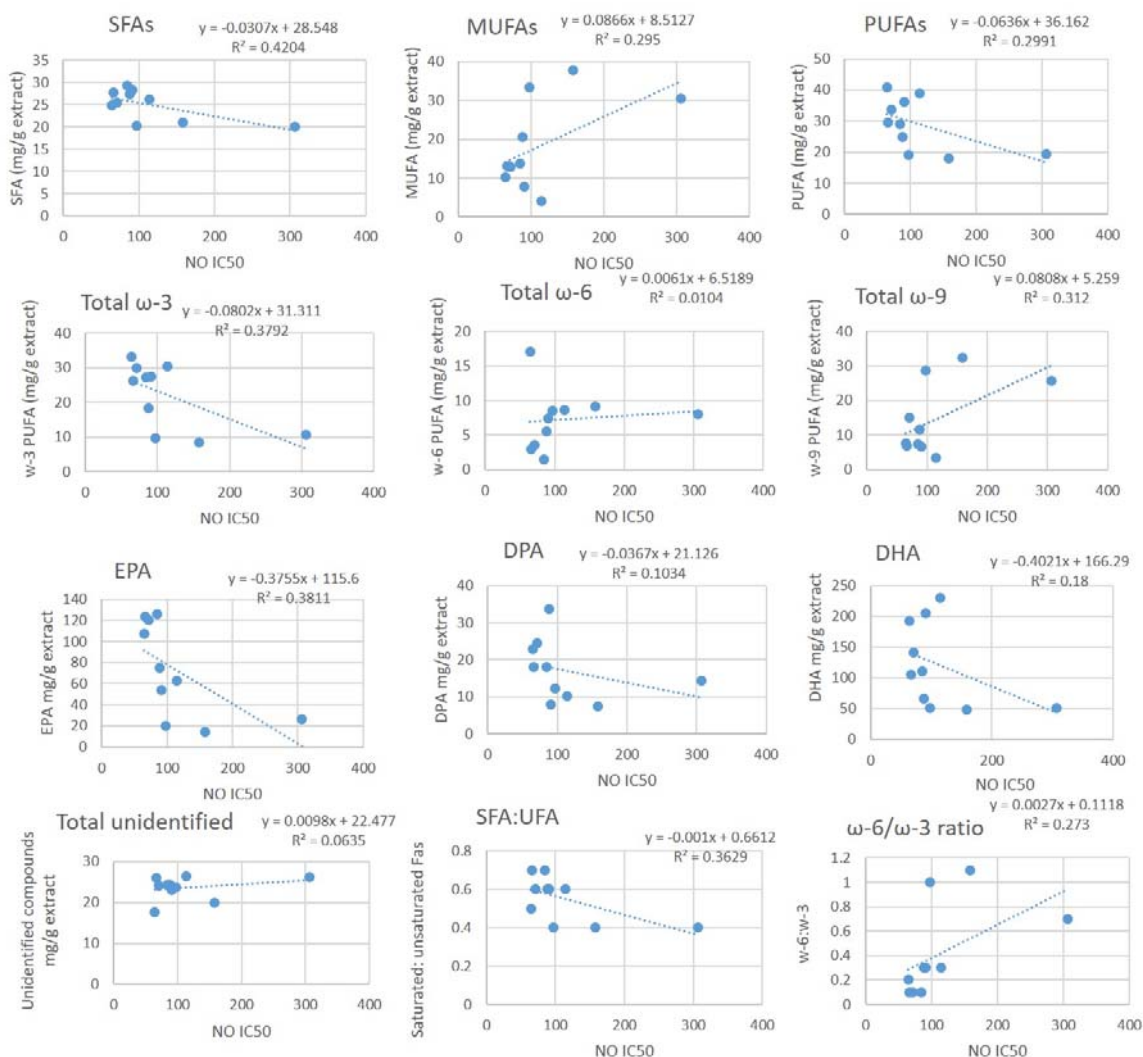
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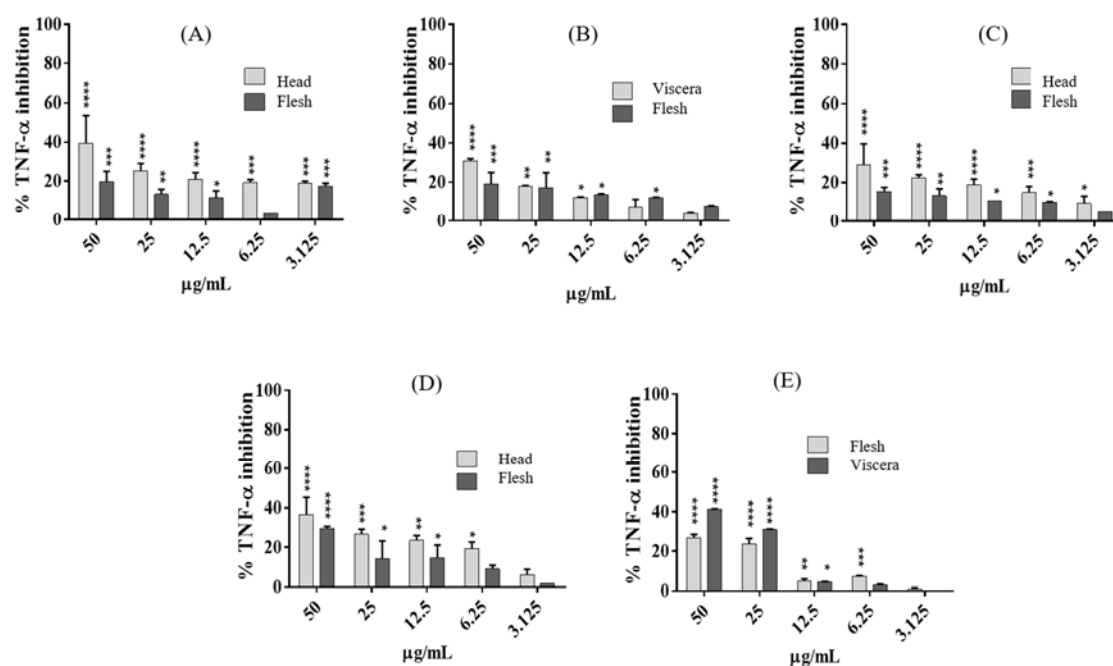
† These authors contributed equally to the manuscript.



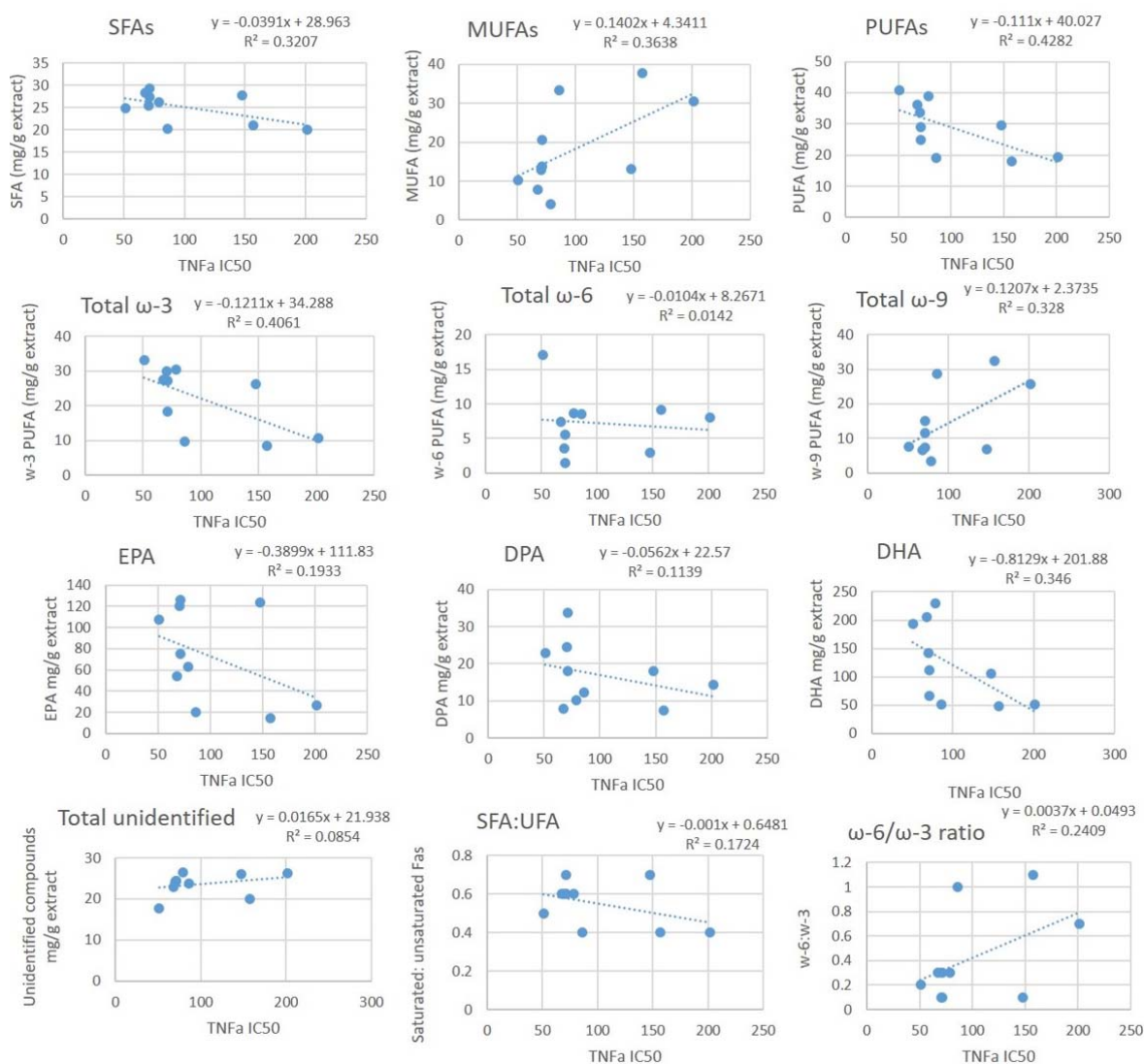
**Figure S1.** The NO inhibitory activity of lipid extracts from different seafood organisms; (A) *Penaeus plebejus* (Australian school prawn), body flesh and head, including viscera; (B) *Sardinops sagax* (Australian sardine) flesh and viscera, including heads; (C) *Salmo salar* (Atlantic salmon) flesh and heads; (D) *Sepioteuthis australis*; (E) *Octopus tetricus* \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ , \*\*\*\* $p < 0.0001$  versus the LPS + Solvent control.



**Figure S2.** Correlations between NO inhibitory activity (IC<sub>50</sub>) of lipid extracts and the amount of certain fatty acid classes or ratios in different seafood organisms.



**Figure S3.** The TNF $\alpha$  inhibitory activity of lipid extracts from different seafood organisms; (A) *Penaeus plebejus* (Australian school prawn), body flesh and head, including viscera; (B) *Sardinops sagax* (Australian sardine) flesh and viscera, including heads; (C) *Salmo salar* (Atlantic salmon) flesh and heads; (D) *Sepioteuthis australis*; (E) *Octopus tetricus* \*p < 0.05, \*\*p < 0.01, \*\*\*p < 0.001, \*\*\*\*p < 0.0001 versus the LPS + Solvent control.



**Figure S4.** Correlations between TNF $\alpha$  inhibitory activity (IC<sub>50</sub>) of lipid extracts and the amount of certain fatty acid classes or ratios in different seafood organisms.