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Anti-inflammatory and proresolution activities of bergapten isolated from the roots of *Ficus hirta* in an *in vivo* zebrafish model

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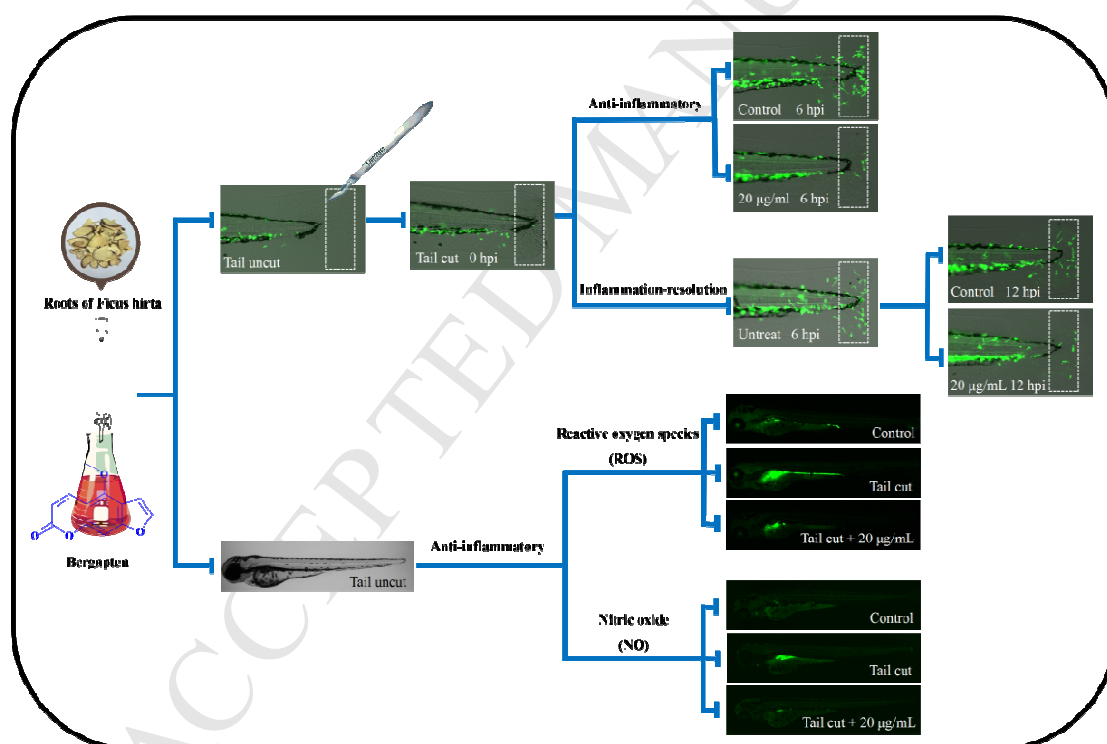
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Graphic abstract

Bergapten, which is a coumarin isolated from the roots of *Ficus hirta*, expressed anti-inflammatory activity by inhibiting the recruitment of neutrophils and macrophages toward the injury site. Bergapten accelerated the inflammation resolution by promoting the clearance of neutrophils and macrophages from the wound site in the fluorescent-protein-labeled zebrafish larvae “Tg(corola: eGFP)” model. In addition, bergapten might also exhibit an anti-inflammatory activity by inhibiting ROS and NO accumulation in the tail-cutting-induced inflammation zebrafish model. This combined anti-inflammatory and proresolution activities suggest that bergapten may be particularly valuable for the treatment of chronic inflammatory diseases.



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