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## **Medicinal importance of avicularin as potential anti-inflammatory agents for the treatment of liver disorders: Therapeutic assessment and biological importance of IL-1 $\beta$ , IL-6 and TNF-alpha in the medicine**

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**Introduction :** Avicularin is a flavonoidal class chemical basically composed with quercetin-3- $\alpha$ -l-arabino furanoside present in *Lindera erythrocarpa*, *Rhododendron schlipenbachii* and *Psidium guajava*. Avicularin protect hepatocytes against oxidative stress.

**Methods :** Various literature databases have been searched to collect the needed information of avicularin for their biological importance against chronic and hepatic complication. All the literature data's have been evaluated statistically for their protective role in liver disorders through different experimental models. Avicularin has been considered as a potent anti-inflammatory agent, so here in this study scientific literature databases analysis have been performed to know their biological importance on liver complication. Biological importance interleukin (IL-1 $\beta$ , IL-6) and tumor necrosis factor alpha (TNF-alpha) for the development of better drug against liver disorders have been also investigated through literature databases analysis.

**Results :** Biological importance of avicularin on various model of inflammation were studied and found to be significant against various types of inflammatory disorders through literature databases analysis. Molecular study revealed the biological importance of IL-1 $\beta$  and IL-6 in the medicine for the treatment of liver disorders. Further importance of TNF-alpha in the medicine supports the molecular mechanism for their anti-inflammatory properties. From the literature data analysis, avicularin showed anti-inflammatory and anti-oxidant activities which are the main parameter for the treatment of inflammatory disorders of the liver.

**Conclusions :** Present work describes the biological importance of avicularin and their efficacy in chronic inflammatory disorders of Hepatic system. This work also describes mechanistic study of the anti-inflammatory properties of avicularin in biological system.

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