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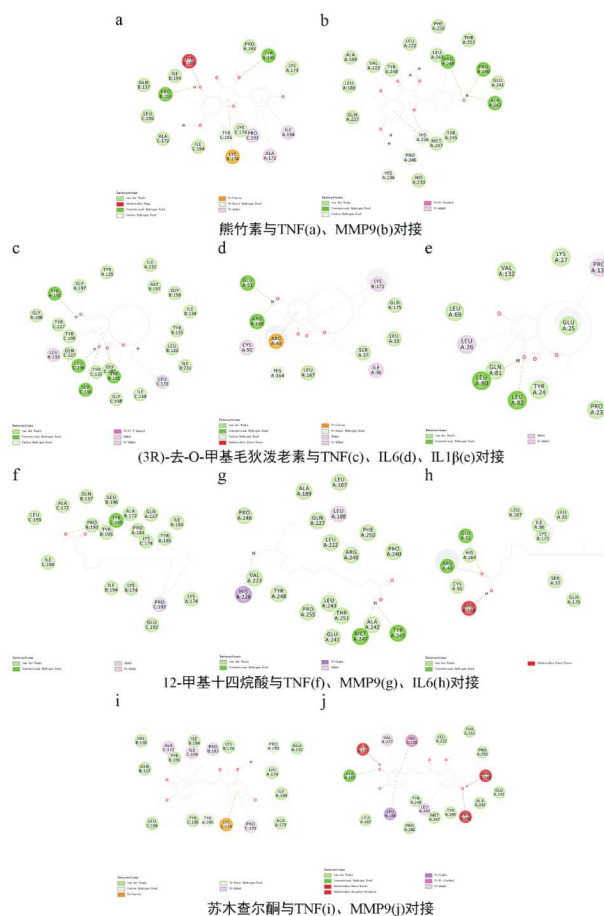


图6 结合活性较好的核心成分-关键靶点的分子对接图

点。TNF- α 是炎性细胞因子,能被腰椎间盘突出组织受体上的转化酶激活而发挥生物学活性^[16]。IL-1 β 和IL-6参与调节炎症反应与免疫应答,损伤的椎间盘内白细胞介素的产生与椎间盘的组织学退变特征相关^[17]。AKT1与关节炎和关节损伤密切相关^[18]。MMP-9在黄韧带病变中起到关键作用^[19]。分子对接表明熊竹素、(3R)-去-O-甲基毛狄泼老素、12-甲基十四烷酸和苏木查尔酮与TNF、MMP-9、IL-6、IL-1 β 和AKT1大多有良好结合能力,验证了通督活血汤治疗LSS分子层面的可能性及网络药理学研究其治疗机制的可靠性。

本研究采用网络药理学和分子对接探讨了通督活血汤治疗LSS的作用机制,初步揭示了通督活血汤对LSS多成分、多靶点、多通路的整体调节作用,预测了其发挥作用的核心成分、靶点、通路。

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