

论著

FISH技术评价昆明山海棠在小鼠骨髓细胞中的非整倍体诱发效应

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摘要 目的: 研究以荧光原位杂交(fluorescence in situ hybridization, FISH) 技术评价了中草药昆明山海棠根部水抽提物[*Tripterygium hypoglaucum* (Level) Hutch, THH] 在小鼠骨髓细胞中的特异染色体不分离效应。方法: 以受试物THH腹腔注射昆明种雄性小白鼠, 24 h后取骨髓细胞常规制片, 以bio-16-dUTP 标记的8号染色体特异性着丝粒重复顺序探针进行FISH, 并以streptavidine-Cy3 与杂交信号结合。荧光显微镜下分析受试物处理动物后骨髓细胞8号染色体分离情况。结果: 在3个受试剂量中, THH 具有与阳性对照秋水仙素类似的作用趋势, 其所诱发的8号染色体不分离频率均显著高于溶剂对照。结论: 本研究证实了THH 为小鼠骨髓细胞8号染色体异常分离的诱发因素。

关键词 [荧光原位杂交](#) [昆明山海棠](#) [小鼠骨髓细胞](#) [非整倍体](#)

ANEUPLOIDY INDUCTION BY THE WATER EXTRACT OF TRIPTERYGIUM HYPOGLAUCUM (LEVEL) HUTCH IN MOUSE BONE MARROW CELLS DETECTED BY FISH

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Abstract Purpose : The water extract of a Chinese herb, *Tripterygium hypoglaucum* (Level) Hutch (THH) was assayed for its effects of aneuploidy induction in mouse bone marrow cells by means of fluorescence in situ hybridization (FISH). Methods : Kunming species mice were injected with THH into the abdominal cavity and killed at 24 h after treatment. The bone marrow cell slides were prepared by general methods. FISH was carried out with Bio2162dU TP2162dU labeled chromosome 8 probe. The hybridization signals were detected by combining streptavidine-Cy3. Results : In three dose groups THH-induced chromosome 8 aneuploidy and the aneuploidy frequencies of chromosome 8 were significantly higher than the solvent control ($P < 0.001 \sim 0.05$). Conclusion : The result indicated that THH is an aneugen of chromosome 8 in mouse somatic cells.

Keywords [fluorescence in situ hybridization](#) [Tripterygium hypoglaucum \(Level\) Hutch](#) [mouse bone marrow cell](#) [aneuploidy](#)

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