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## STUDIES ON THE ANTIMUTAGENIC AND CYTOTOXIC EFFECT OF *POLYPORUS UMBELLATUS* CONSTITUENTS

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A wide array of natural products have been identified to possess potential cancer chemopreventive properties. Of particular interest is *Polyporus umbellatus* frs. that exhibits antimutagenic and cytotoxic effects. The crud drug "chorei" prepared from the dried fruit body of *Polyporus umbellatus* is used for kidney and other such disease. In this study, we are isolating the minor components of Chorei and examined their antimutagenic and cytotoxic effects. 5~10% of Chorei fractions(A~F, C<sub>1</sub>~C<sub>3</sub>, E<sub>1</sub>~E<sub>3</sub>) showed highest inhibitory activity on 4-nitroquinoline-1-oxide (4-NQO) against *Salmonella typhimurium* TA100, and on 2-nitrofluorene (2-NF) against *Salmonella typhimurium* TA98. More than 10% of each Chorei Frs (A~F, C<sub>1</sub>~C<sub>3</sub>, E<sub>1</sub>~E<sub>3</sub>) showed almost same antimutagenic effects as that of 7.5% concentration or lower antimutagenic effects. Chorei frs (C, D, E, C<sub>1</sub>~C<sub>3</sub>, E<sub>1</sub>~E<sub>3</sub>) showed cytotoxic effect against HL-60 and SiHa. IC<sub>50</sub> value of most frs. were below 100 µg/ml, and further investigation on minor component isolation and cytotoxic mechanisms are needed.