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The study of antimicrobial and anti-Alzheimer's effects of turmeric extract based on amyloid nano-biofibrils formation inhibition method

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Turmeric medicinal herbs with scientific name *Curcuma longa* belong to Zingiberaceae family. This study has evaluated anti-Alzheimer as well as antimicrobial effects of turmeric extract through amyloid nano-bio-fibrils formation inhibition method.

Hydro-alcoholic extract of turmeric showed more microbial inhibitory effect (MIC) specially against *Staphylococcus aureus* bacteria because of they are Gram-positive bacteria and also increasing the extract concentration increases its killing power. Reduction of amyloid fibril information confirms anti-Alzheimer's property of turmeric. Generally, turmeric has proper antimicrobial effects with less side effects and cost than the other chemicals.

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