

## Found Chinese plants with antibacterial properties, able to resist dental problems

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Specifically, researchers, including scientists from the West China School of Stomatology, have discovered the main active ingredient of *Galla Chinensis*, a natural herb that is highly resistant to cavities. good.



Before now, to maintain healthy oral health, the oral environment must be relatively neutral. When the environment in the mouth is more acidic, there will be cavities or other disorders. *Galla Chinensis* has been revealed to inhibit the acid production of bacteria associated with tooth decay as well as to make teeth resistant to acid attack.

Researchers tested hundreds of Chinese herbs and identified *Galla Chinensis* with the potential to prevent tooth decay due to its antibacterial and dental mineralization benefits. The researchers say *Galla Chinensis* also has significant antiviral, anticancer, anti-inflammatory, anti-diarrhea and anti-oxidant activities.

However, the main active ingredient of *Galla Chinensis* is not published in detail, which limits the application in dentistry. In the study published in the *Journal of Open Science*, several extracts of *Galla Chinensis* with different main components were collected and determined by liquid chromatographic mass analysis (LC-MS). .

Antimicrobial ability is determined using a variety of biofilm models, which can create the same plaque-like biofilm that occurs in the body.

"The average gallotannin molecule is the most active component in preventing tooth decay. And in tooth decay, reducing the incidence of tooth decay has been done," said lead author Xuelian Huang. by adding fluoride, the researchers said.

However, it is not a comprehensive treatment and still needs to look for other supplements to replace fluoride. With these new findings, the team is working with industry to develop new types of special dental care products.

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