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Dalestones A and B, two anti-inflammatory cyclopentenones from *Daldinia eschscholzii* with an edited strong promoter for the global regulator *LaeA-like* gene

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# CHINESE JOURNAL OF NATURAL MEDICINES

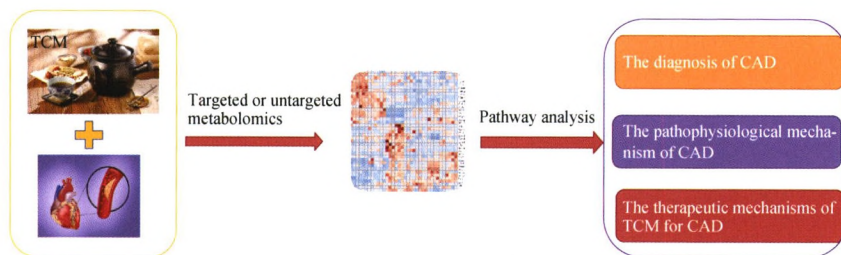
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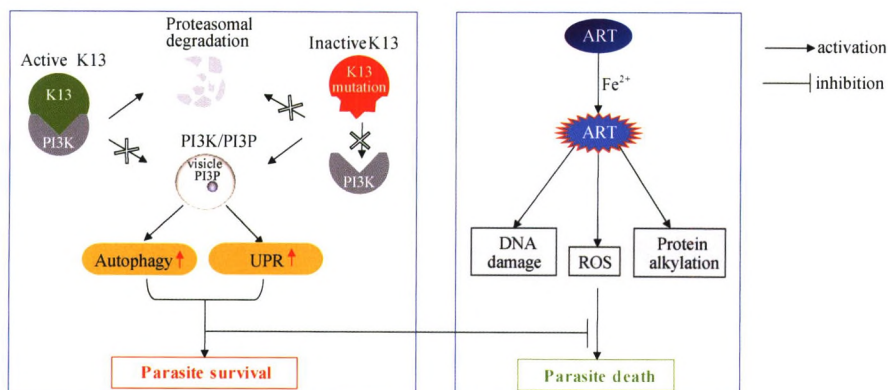
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WU Gao-Song, LI Hou-Kai\*, ZHANG Wei-Dong\*



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LU Feng, HE Xin-Long, Richard Culleton\*, CAO Jun\*

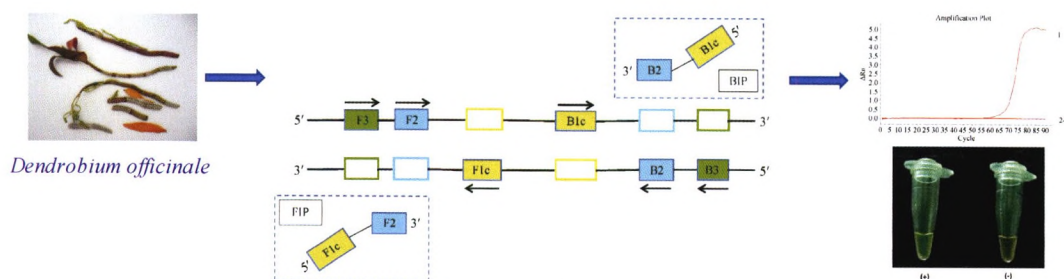


Hypothesized mechanism of artemisinin resistance in *Plasmodium falciparum* involving decreased proteolysis of phosphatidylinositol-3-phosphate (PI3P). Ferrous ions within malaria parasites activate ARTs, causing DNA damage, the generation of reactive oxygen species (ROS) and the alkylation of multiple proteins, ultimately leading to parasite death. Mutations in Kelch 13 (K13) result in decreased proteolysis of phosphatidylinositol-3-kinase (PI3K) and increased levels of its lipid product PI3P. Increased PI3P may stimulate autophagy, engaging the unfolded protein response (UPR) to mount a stress response, thus promoting parasite survival.

### ·Research articles·

#### Rapid identification of *Dendrobium officinale* using Loop-Mediated Isothermal Amplification (LAMP) method 337-345

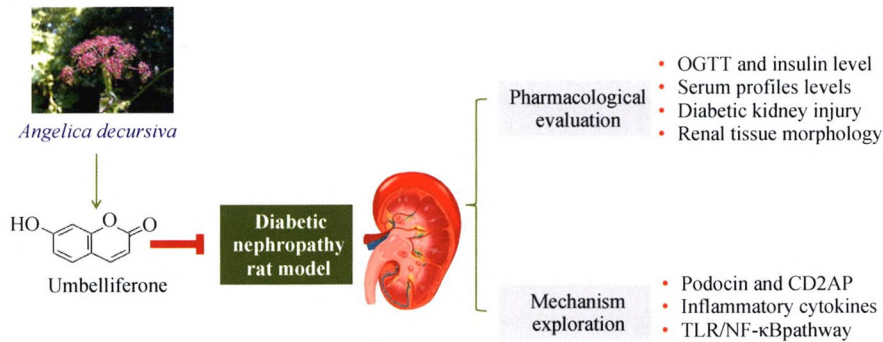
YANG Lu, WU Wen-Ru\*, ZHOU Hua, LAI Hui-Li, FU Fei



A set of primers for LAMP were specifically designed to detect a modified internal transcribed spacer region of *Dendrobium officinale* at 65 °C within 40 min after adding SYBR Green I. The reactions can be completed in a water bath, and the amplified products can be detected visually by the naked eye.

**Umbelliferone ameliorates renal function in diabetic nephropathy rats through regulating inflammation and TLR/NF-κB pathway** 346-354

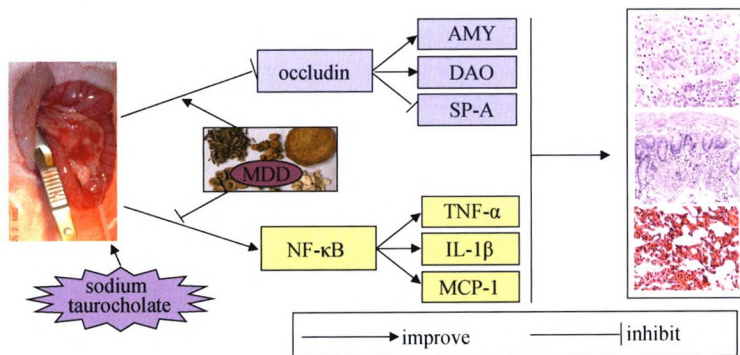
WANG Han-Qing<sup>A</sup>, WANG Sha-Sha<sup>A</sup>, Chiufai Kuok, WANG Qi<sup>\*</sup>, CHENG Xiao-Lan<sup>\*</sup>



Umbelliferone has a potential of mitigating hyperglycemia-induced kidney impairment. Furthermore, treatment with umbelliferone significantly inhibited inflammatory responses via regulating TLR2, TLR4, MyD88, NF-κB and IκB expression in the kidney of diabetic rats.

**Modified Da-chai-hu Decoction regulates the expression of occludin and NF-κB to alleviate organ injury in severe acute pancreatitis rats** 355-362

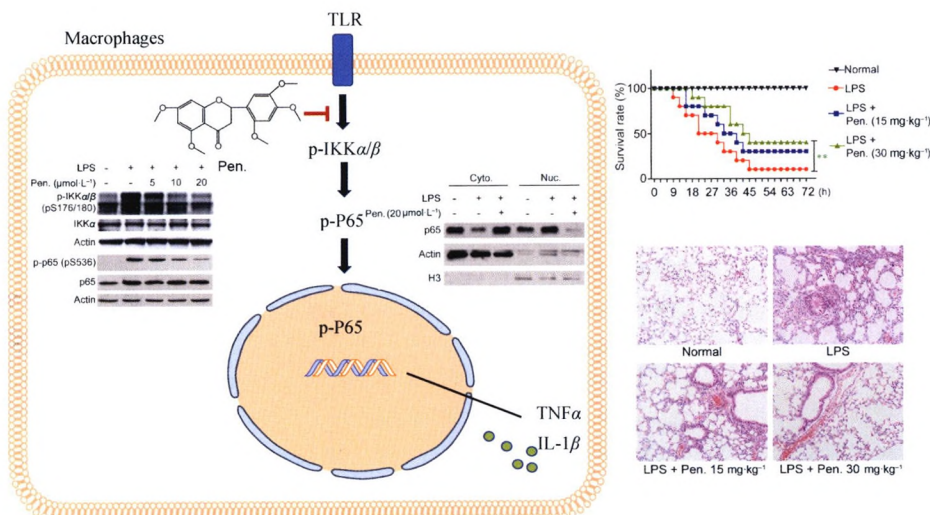
ZHAO Guang<sup>A</sup>, ZHUO Yu-Zhen<sup>A</sup>, CUI Li-Hua, LI Cai-Xia, CHEN Sha-Yan, LI Dan, LIU Jun-Hong, LI Di-Hua, CUI Nai-Qiang, ZHANG Shu-Kun<sup>\*</sup>



MDD (modified Da-chai-hu decoction) could alleviate the pathological damage and inflammatory reactions of pancreas, ileum and lung in experimental SAP rat model, the mechanism mainly involved the preservation of cell structural integrity by promoting the expression of tight junction protein and the reduction of inflammatory factors release by inhibiting NFκB pathway activation.

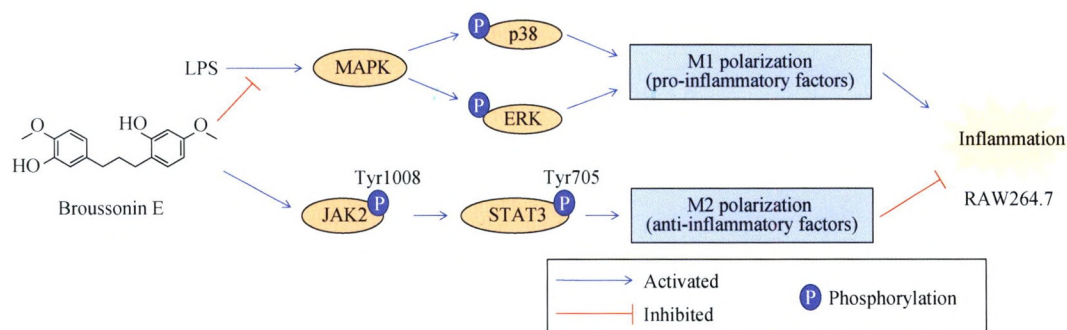
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FENG Li-Li, XU Li-Sha, GUO Meng-Meng, HUANG Wei, ZHU Jia-Zhen, KONG Ling-Dong, WU Xu-Dong<sup>\*</sup>, XU Qiang<sup>\*</sup>



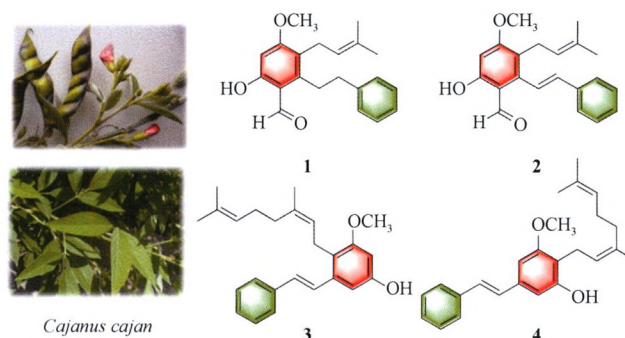
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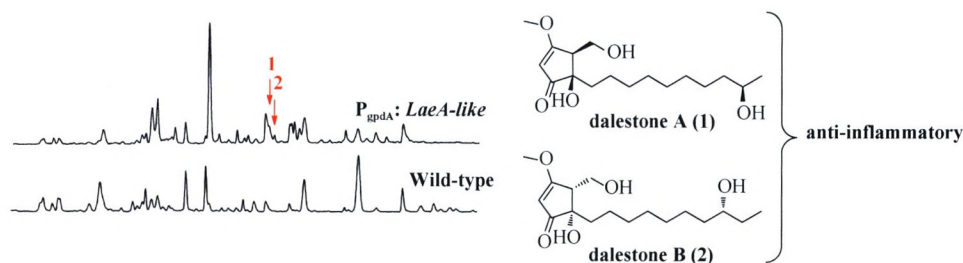
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**Dalestones A and B, two anti-inflammatory cyclopentenones from *Daldinia eschscholzii* with an edited strong promoter for the global regulator *LaeA-like* gene** 387-393

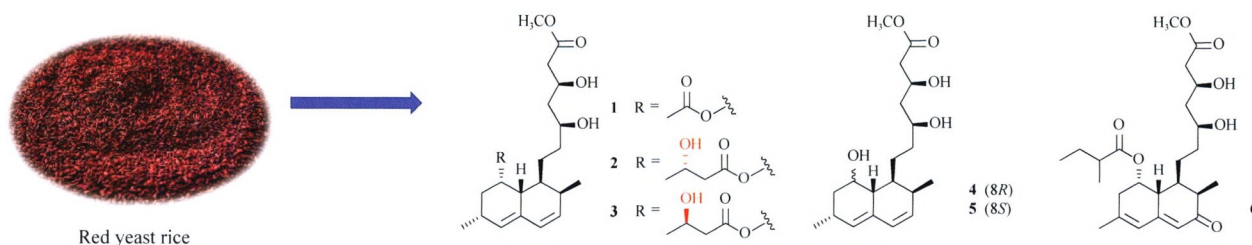
ZHOU Zhen-Zhen<sup>A</sup>, ZHU Hong-Jie<sup>A</sup>, YANG Cheng-Long, LIU Yan-Jun, JIANG Nan, XIAO Yong-Sheng, SHI Li-Yun, JIAO Rui-Hua, GE Hui-Ming\*, TAN Ren-Xiang\*



Replacement of the native promoter of the global regulator *LaeA-like* gene by a strong *gpdA* promoter afforded two anti-inflammatory cyclopentenones in *Daldinia eschscholzii*.

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The Chinese Journal of Natural Medicines (CJNM) is devoted to communications among pharmaceutical and medicinal plant scientists who are interested in the advancement of the botanical, chemical, and biological sciences in support of the use of natural medicines in health care, in particular, traditional Chinese medicines (TCM). CJNM aims to cover a broad spectrum of original research papers and review articles on natural medicines or their products from all over the world, including those from TCM.

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