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A comprehensive update: gastrointestinal microflora, gastric cancer and gastric premalignant condition, and intervention by traditional Chinese medicine

Key words: Gastric cancer; Gastric premalignant conditions; Gastric cancer and precancerous lesions; Gastrointestinal microflora; Intervention by traditional Chinese medicine

Research Summary

This review mainly focused on the relationship between gastrointestinal microflora imbalance and gastric cancer (GC) and precancerous lesions，and found restore the balance of gastrointestinal microflora is of great significance.

Moreover, the intervention of traditional Chinese medicine (TCM) on gastric premalignant conditions (GPC) has been the focus of current clinical researches，which can play a two-way regulatory role directly with the microflora in the digestive tract, repairing the homeostasis of gastrointestinal microflora to prevent canceration.

Innovation points

- **Introduction** of the main composition and distribution of gastrointestinal microflora associated with GC and GPC.

- **Summary** of the the relationship between gastrointestinal microflora and GC and GPC.

- **Emphasis** of improving the efficacy of TCM through gastrointestinal microflora metabolism .

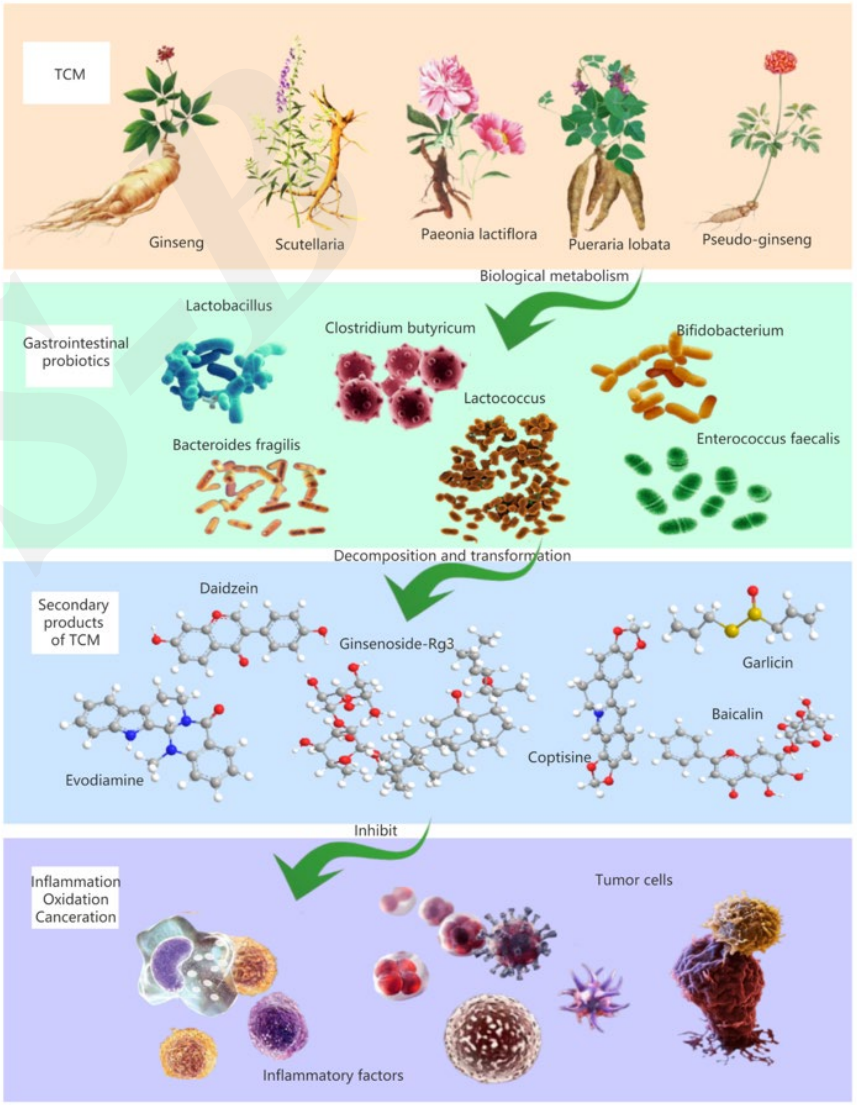


Figure 5

Innovation points

A series of comprehensive figures and tables were generated to summarize the latest knowledge about gastrointestinal microflora, GC and GPC, and intervention by TCM.

Figure 1| **Factors influencing gastrointestinal microecology.**

Figure 2| **Gastric microflora and GC and GPC.**

Figure 3| **Intestinal microflora and GC and GPC.**

Figure 4| **Intestinal probiotics protect the mucosal barrier by regulating immunity.**

Figure 5| **Improving the efficacy of TCM through the metabolism of the gastrointestinal microflora.**

Table 1| **The main composition and distribution of gastrointestinal microflora.**

Table 2| **Gastrointestinal microflora associated with GC and GPC.**

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