

The improvement of sequencing technology and the detection capability of various testing devices have accelerated the research on *H. pylori*. From the discovery of *H. pylori* to the present, the basic situation of *H. pylori* has been well studied, including the structure and morphology of *H. pylori*, culture conditions, the distribution of different populations, the evolution of different populations and the types of diseases caused by *H. pylori*. In addition, the more in-depth studies of *H. pylori* have been well developed, including survival mechanisms, colonization mechanisms, pathogenic mechanisms, drug resistance mechanisms and immune evasion mechanisms. These studies have deepened our understanding of *H. pylori*. However, there is still a need for more studies of *H. pylori* to aid in the development of *H. pylori* vaccines and drugs.