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外科学の進化

The evolution of surgical treatment for gastrointestinal cancers

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According to the latest Japanese nation-wide estimates, over a million Japanese people are newly diagnosed with cancer each year. Since gastrointestinal (GI) cancers account for more than 40% of all cancer-related deaths, it is imperative to formulate effective strategies to control them. We surgeons can achieve the following: (1) Elucidating the molecular mechanisms of GI cancers using surgically resected specimen and the identification of molecules essential to cancer occurrence and the development of new drugs. (2) The creation of safer and more useful surgical procedures and devices based on a thorough understanding of human biology. (3) The development of strategies to prevent cancer based on its molecular mechanisms.