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Genomic characterization of esophageal squamous cell carcinoma: Insights from next-generation sequencing

Sasaki Y *et al.* Esophageal squamous cell carcinoma genomics

Yasushi Sasaki, Miyuki Tamura, Ryota Koyama, Takafumi Nakagaki, Yasushi Adachi, Takashi Tokino

Abstract

Two major types of cancer occur in the esophagus: squamous cell carcinoma, which is associated with chronic smoking and alcohol consumption, and adenocarcinoma, which typically arises in gastric reflux-associated Barrett's esophagus. Although there is increasing incidence of esophageal adenocarcinoma in Western countries, esophageal squamous cell carcinoma (ESCC) accounts for most esophageal malignancies in East Asia, including China and Japan. Technological advances allowing for massively parallel, high-throughput next-generation sequencing (NGS) of DNA have enabled comprehensive characterization of somatic mutations in large numbers of tumor samples.

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