

AMP case report: August 2017 test yourself answers

In the August 2017 issue was a report, "[NGS panel aids in diagnosis of rare collision tumor](#)," written by members of the Association for Molecular Pathology. Here are answers (in bold) to the three "test yourself" questions that followed that case report.

1. Which of the following are included in the differential diagnosis of spindle cell lesions of the gastrointestinal tract?

- a) Sarcomatoid carcinoma
- b) Gastrointestinal stromal tumor
- c) Metastatic leiomyosarcoma
- d) Sarcomatoid mesothelioma

e) All of the above

2. Which of the following is not a gene that encodes for a mismatch repair protein?

- a) *MLH1*
- b) *MSH2*
- c) *MSH6*

d) *BRCA2*

- e) *PMS2*

3. Activating mutation in the *BRAF* gene in colorectal carcinoma correlates most closely with which of the following?

- a) Hypermethylation of the *MLH1* gene promoter**
- b) Somatic loss-of-function mutation in the *MLH1* gene
- c) Germline loss-of-function mutation in the *MLH1* gene
- d) Loss of heterozygosity at the *MLH1* gene locus