

## Original Research Article

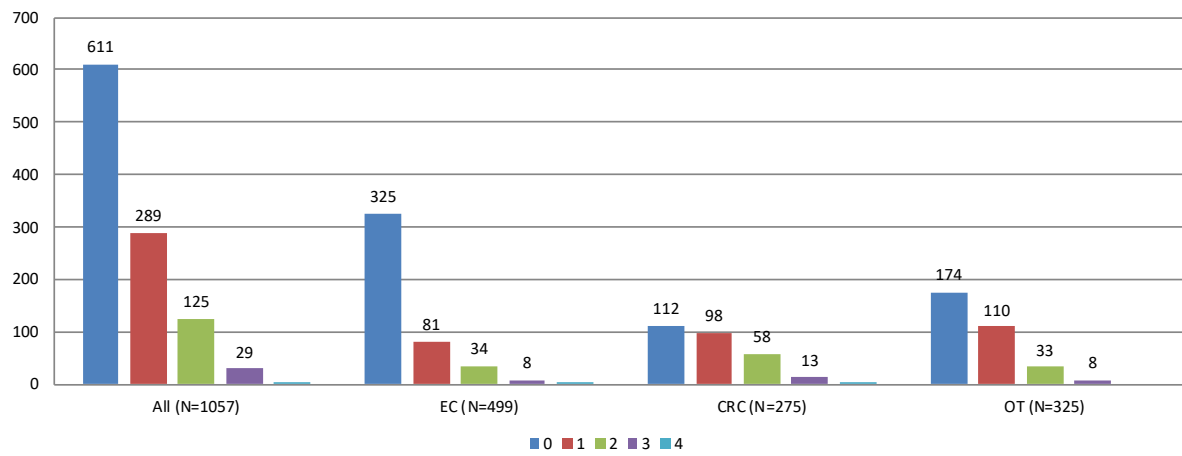
### **Relationship between MLH1, PMS2, MSH2, and MSH6 gene specific alterations and tumor mutational burden (TMB) in 1,057 microsatellite instability-high solid tumors**

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#### **List of materials included in this document**

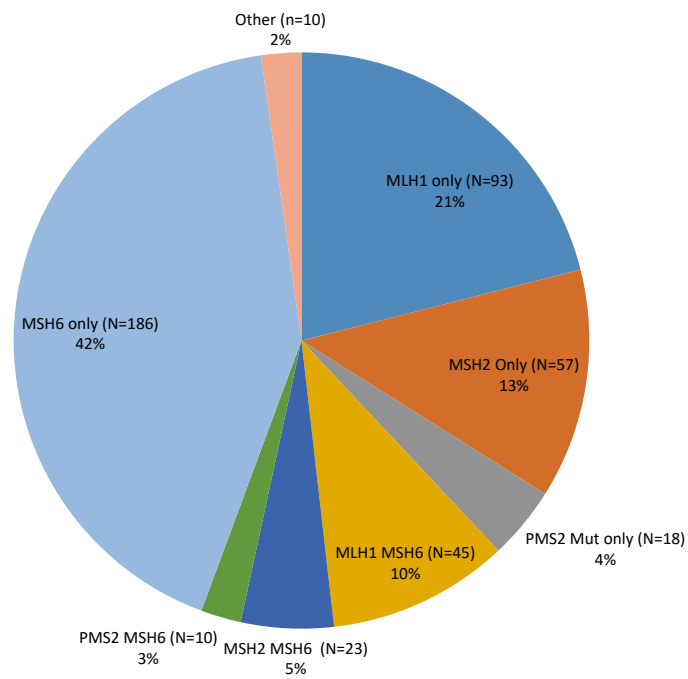
- 1) Supplementary Figure S1.** Total number of MMR gene mutations identified per tumor
  
- 2) Supplementary Figure S2.** MMR gene mutational patterns among 443 tumors with at least one MMR mutation
  
- 3) Supplementary Figure S3.** Rates of MMR protein loss and MMR mutation examined by gene in tumors with complete MMR IHC and NGS testing (N=418)
  
- 4) Supplementary Table S1.** Tumor mutational burden (TMB) stratified by the presence of an MSH6 mutation and by disease site

### Supplementary Figure S1: Total number of MMR gene mutations identified per tumor



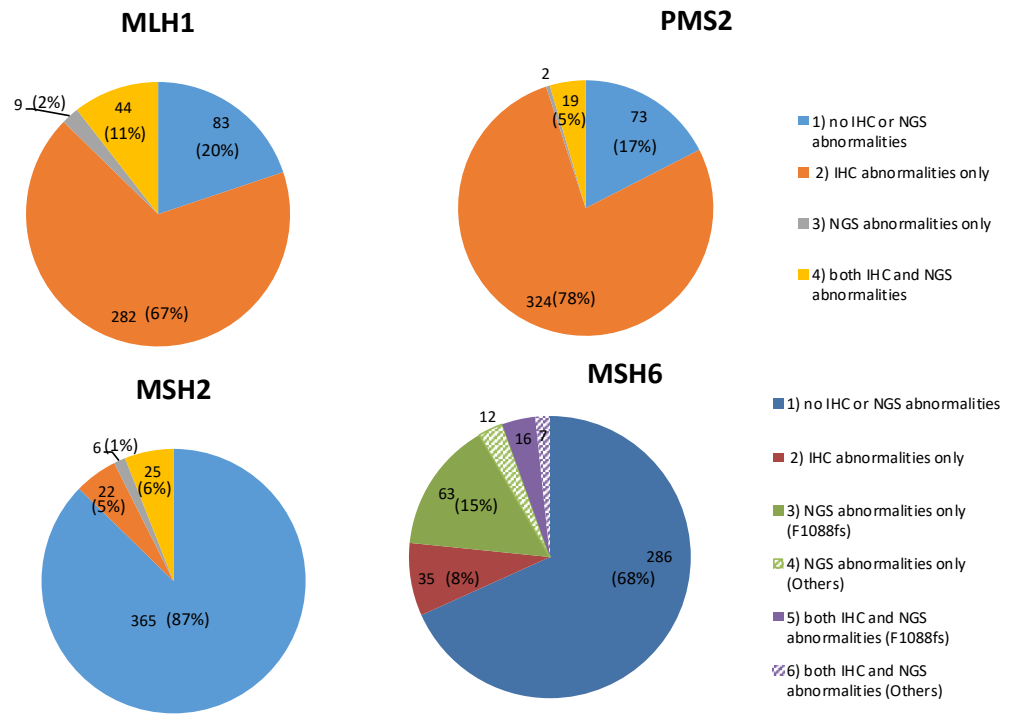
Abbreviations: EC, endometrial cancer; CRC, colorectal cancer; OT, other tumors

**Supplementary Figure S2: MMR gene mutational patterns among 443 tumors with at least one MMR mutation**



Abbreviations: Mut, mutation

**Supplementary Figure S3: Rates of MMR protein loss and MMR mutation examined by gene in tumors with complete MMR IHC and NGS testing (N=418)**



Abbreviations: IHC, immunohistochemistry; NGS, next generation sequencing;

**Supplementary Table S1: Tumor mutational burden (TMB) stratified by the presence of an MSH6 mutation and by disease site**

All	All			EC			CRC			Other		
	Mean	Lower 95%	Upper 95%	Mean	Lower 95%	Upper 95%	Mean	Lower 95%	Upper 95%	Mean	Lower 95%	Upper 95%
MSH6 1088fs	36.3	32.1	40.6	25.8	19.6	31.9	43.2	36.8	49.6	42.7	33.0	52.4
MSH6 OtherMT	53.0	44.7	61.3	31.8	17.8	45.7	48.9	37.4	60.4	84.5	66.3	102.7
MSH6-NoMUT	26.0	23.8	28.2	21.7	18.7	24.6	35.0	30.6	39.4	26.0	21.7	30.3