

HHMI Activity 2 – Examining Cancer Patient Data

- I. **Form small groups based on cancer type.** For example, all people with a lung cancer patient card group together.
 1. Compare your cards. What trends or patterns do you see?
 2. How many different genes total are listed?
 3. Do mutations in any of these genes occur in multiple patients?
 4. Which genes are mutated in multiple patients? Are they tumor suppressor genes or oncogenes?
 5. How many genetic mutations are involved in each patient's cancer? What is the smallest number? What is the largest number?
- II. **Form small groups based on patient number.** For example, LC1, BC1, G1, and M1 would be in the same group.
 1. Compare your cards. What trends or patterns do you see?
 2. Which genes occur in multiple cancer types?
 3. What type of genes are they? What functions do they have?