

## Heart and Cancer: Rare Events or Protective Events as a New Medical Hypothesis

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It is rarely to diagnose cancers in heart, and this, in turn, led to critical questions about this phenomenon. One of hypotheses has focused on developmental biology in which the body through cross-talks decided that heart is very crucial to the body and its roles can't be replaced. Accordingly, heart should not have cancer, according to this hypothesis, cancer is likely to affect one of the doubled organs including breast, lung, and kidney, or large organs such as liver. One of the doubled organs can be removed, or part of the large organs can be removed. In heart case, it is one organ and each part is crucial. I can't take this hypothesis seriously due to lack of the evidence. We have experimentally found that some biomarkers exist in myocardium including p53 and BCL2. These biomarkers are included in cancers and lead to uncontrolled proliferation of cells, carcinogenesis. Because cardiac cells are likely to increase in size, rather in number, these biomarkers protect cardiac cells because apoptotic pathways are inhibited, or partially inhibited. In other words, cardiac cells resist death. As a conclusion, heart tissue experiences carcinogenic reactions as other tissues, but these carcinogenic reactions are likely to offer protection.

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