



The Research and Biology of Cancer II

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Cancer is a broad group of diseases involving unregulated cell growth, in which cells divide and grow uncontrollably, forming malignant tumors, and invade nearby parts of the body. Cancer may also spread to different parts of the body through the lymphatic system or the bloodstream. *The Research and Biology of Cancer* discusses some recent advances in cancer research. There are totally two volumes: Volume I mainly discusses the role of some important enzymes and proteins in cancer, whereas Volume II discusses different types of cancers, including head and neck cancer, oral cancer, kidney cancer, colon cancer, and thyroid cancer.

Chapter 1 discusses personalised combination therapy targeting PI3K/Akt, STAT3, ERK, and EGFR signalling pathways which may provide clinical benefits for patients with HNSCC. Such therapy is useful because molecular cross-talk between the EGFR and other RTK signalling pathways through PI3K/Akt, STAT3, and ERK in HNSCCs, EGFR inhibitors alone may be unable to suppress EGFR downstream.

Chapter 2 describes tissue based LCM, which is a powerful technique that combines morphology, histopathology, and molecular biological analysis. The ability of LCM to retrieve specific populations of interested cells, combined with the analysis of gene sequencing and gene expression in these sub-population of cells, has made LCM an critical device in clinical and investigative oral oncology.

Chapter 3 discussed several aspects about the use of the Micronucleus Test to identify genetic damage in individuals at higher risk of developing oral squamous cell carcinoma and evaluated the malignant transformation potential of precancerous lesions.

Chapter 4 aims to picture the landscape of metastatic renal cancer starting from its pathogenesis, molecular markers, prognostic factors, metastatic potential, with emphasis on the recent evolution in the treatment of metastatic renal cancer cases.

Chapter 5 discusses skin-level jejunostomy (SLJ) tube placement technique using the G-tube, which is a safe procedure in patients with esophageal cancer. It allows the creation of a long-term feeding jejunostomy.

Chapter 7 offers a comprehensive review of the small bowel neoplasms, as well as its varied clinical manifestations, diagnostic challenges and management principles.

Chapter 8 reviews the current research efforts to identify biomarkers suitable for non-invasive colon cancer screening.

Chapter 9 conducted a pilot study to determine the safety and feasibility of an early start of chemotherapy after the resection of colorectal cancer with distant metastases. Chemotherapy usually starts after 4 weeks of surgical resection of colorectal cancer. Unfortunately, there is no study on the optimal length of this delay. A patient may die because postoperative chemotherapy was not started soon enough and so a metastatic tumor was able to develop rapidly. This chapter gives a good review of this problem.

Chapter 10 focuses on the putative role of intestinal microbiota in the development of colorectal cancer, describing his metabolic functions and relation with diet, and his interaction with host's immunity and with

molecular and morpho-functional activity of gastrointestinal tract.

Chapter 11 describes an approach used for identification of a novel PPI. It shows that an uncharacterized protein, two-transmembrane protein 88 (TMEM88), is a binding partner of Dishevelled (Dvl/Dsh) by using a combination of techniques, including bioinformatic, biophysical, and biochemical methods.

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The book The Research and Biology of Cancer II has a lot of knowledge on it. So when you check out this book you can get a lot of profit. The book was written by the very famous author. This articles author makes some research before write this book. This kind of book very easy to read you may get the point easily after reading this book.

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