

Biology Investigatory Project on

Breast Cancer

...A silent thief of life

Name: Umang Chandna
Class : XII-F
Roll No.->

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Certificate

This is to certify that Umang Chandna of Class XII-B has successfully completed his Biology Investigatory Project on 'Breast Cancer' to my satisfaction and under my supervision in the Academic year

Biology Investigatory Project Class Xii Breast Cancer

Shankar Suman



Biology Investigatory Project Class Xii Breast Cancer:

Breast Cancer Biology Dil Afroze, Bilal Rah, Shazia Ali, Faheem Shehjar, Mohd Ishaq Dar, Shailender Chauhan, Natasha Thakur, 2020-07-08 This book offers a comprehensive overview of recent developments in the field of breast cancer biology. It is a complete and descriptive reference on signaling pathways and new treatment options for the future transnational scientists and clinicians working on cancer research and treatment. We greatly appreciate the work of all the contributors to this book. They have brought with them tremendous diversity of perspectives and fields which is truly reflective of the complexity of the topic and they have come together in this project to serve as the node of multidisciplinary collaboration in this field. Finally, we must acknowledge the thousands of cancer patients who have participated in the studies and who have inspired us to gather information to significantly progress knowledge in the field in recent years. **Cell and Molecular**

Biology of Breast Cancer Heide Schatten, 2013-09-27 Highlighting recent advances in our understanding of breast cancer, this book is intended for a wide audience as a reference book. Included are reviews of genetics, epigenetics, various aspects of cell and molecular biology, and several other areas of breast cancer that are aimed at determining new intervention sites for treatments and cures of the disease. The chapters are written by internationally recognized experts and include reviews of key topics in breast cancer research. Each chapter highlights the new aspects of specific research topics and the various impacts of designing new strategies as well as identifies new targets for therapeutic intervention. The topics addressed are selected to be of interest to patients, scientists, students, teachers, and anyone else interested in expanding their knowledge of breast cancer imaging, diagnostics, therapeutics, or basic biomedical research on breast cancer. Understanding Breast

Cancer Joel D. Pardee, 2011-01-01 The mysterious disease of cancer, including breast cancer, has plagued mankind since the dawn of recorded history. Regarding the elusive cause of the disease, the Father of Medicine, Hippocrates of Athens (460-377 BC), wrote that "For instability is characteristic of the humours and so they may be easily altered by nature and by chance." The enigma has persisted until today. In 1971, then President Richard Nixon signed the National Cancer Act and declared a War on Cancer. He believed the counsel of scientists and physicians that if sufficient resources were committed to the fight, cancer could be virtually eliminated within 5 years. The prophecy failed. Although mortality from a few cancers, most notably leukemias, has been significantly reduced, carcinomas of the epithelium, which account for 80% of cancer deaths, remain unchanged. While tremendous advances have taken place in our understanding of the molecular and cellular mechanisms operating in cancer, it has proven exceedingly difficult to prevent the occurrence or to halt the progress of the disease. The very best therapy remains early detection while the primary tumor is small and localized to a single site, followed by removal of the offending growth by surgery and/or radiation. The great challenge of finding a cure confronts us yet, and it is effective intervention at the molecular level that offers our best hope. We still must find the magic bullet. **Experimental**

Biology William McGuire, 2013-12-14 Breast cancer continues to be the focus of intense basic and clinical research. In

Valurne 1 of this series we dealt exclusively with topics concerned with therapy In the present Valurne 2 we turn our attention to the experimental biology which is the foundation for our understanding of problems concerned with breast cancer etiology mechanisms of hormone action cell kinetics experimental chemotherapy and markers of tumor burden The contributors to the volume are all noted scholars who are personally investigating these problems The first chapter addresses the question do hormones cause breast cancer Segaloff provides us with a rational up to date overview of the existing data He concludes that hormones by themselves are not tumor initiators but rather alter the host environment so that other carcinogens are effective It is pointed out that the selection of the model test system is critical one can almost assure any desired result by choosing an appropriately biased test system The question of the role of viruses in the etiology of human breast cancer remains unanswered despite elegant studies in mouse systems *Current Cancer Research on Breast Cancer* Current Cancer Research Project Analysis Center (U.S.),1978 **Cell Biology of Breast Cancer** Charles M. McGrath,Michael James Brennan,Marvin A. Rich,1980 [The Pathobiology of Breast Cancer](#) Jose Russo,2016-08-10 This monograph written by well renowned breast cancer expert Dr Jose Russo provides new insight on the pathobiology of breast cancer from the most current advances in the field translational research initiation and progression of the disease the mechanism of invasion and metastasis and the concept of stem cells in treatment and drug resistance The role of personalized medicine and genomic testing are also explored which will provide a window to the future progress of cancer care *Role of the Transcriptome in Breast Cancer Prevention* Jose Russo,Irma H. Russo,2014-12-13 This book will provide the latest advances in molecular and cellular biology for establishing the foundation of a complete understanding of the mechanisms of breast differentiation leading to cancer prevention The authors are based on the epidemiological evidence indicating that early first full term pregnancy is a protective factor in human against breast cancer and they have used this paradigm and developed experimental systems in both in vivo and in vitro that have demonstrated mechanistically how the differentiation at the organ and cellular level takes place This knowledge has provided the blueprint for developing better understanding of the basis of cancer prevention The transcriptoma analysis of the breast of pre and post menopausal women has established a genomic signature imprinted in the breast that differs according to the reproductive history of the woman showing that early first full term pregnancy reprogram the organ This reprogramming takes place at the chromatin level by changing the transcriptional process The modification of the transcriptional control is due to the expression of non coding RNA sequences and posttranscriptional control driven by the spliceosome The plasticity of the genome of the human breast make possible this reprogramming that is not only induced by the physiological process of pregnancy but by the use of hormones that mimic pregnancy without pregnancy The author have established the basis of clinical trials for prevention and the discovery that short 15aa peptides of the chorionic gonadotropin hormone can be used in human breast cancer prevention based on preclinical and clinical data **Current Advances in Breast Cancer Research: A Molecular**

Approach Shankar Suman,2020-06 **Growth Regulation of Human Breast Cancer Cells by Estrogens and Antiestrogens** Anne E. Lykkesfeldt,1997 **The Second International Symposium on the Molecular Biology of Breast Cancer** ,2000 **Biology of Breast Cancer: A Predoctoral Training Program** ,1996 Implementation of a new predoctoral program in the Biology of Breast Cancer has facilitated the training of investigators committed to future careers in the study of breast cancer The scope of this program has been limited to the training of predoctoral i e Ph D and M D Ph D candidates USAMRDC support for this program has resulted in the development of a truly outstanding multidisciplinary didactic curriculum in tumor biology which includes a strong emphasis in breast cancer To date 16 trainees have matriculated into this new training program Two trainees have successfully completed this training program and have left the Mayo Clinic to continue their training careers in breast cancer research All of the remaining trainees are conducting breast cancer relevant thesis research and continue to make excellent progress in their studies This final report includes the product of our last task i e Task 6 of our original statement of work which is a formal written evaluation and also includes the comments of our two external reviewers see Appendix **The Therapeutic Implications of the Molecular Biology of Breast Cancer** Enrico Mihich,Marc E. Lippman,International Pezcoller Symposium,Pezcoller Foundation,1991-01-01

Breast Cancer Research ,1977 Molecular Biology of Breast Neoplasia ,1997 The Robert H Lurie Cancer Center at Northwestern University is an NCI funded comprehensive cancer center The Cancer Center has made significant advances in developing a premier breast cancer program In September 1994 the Cancer Center received a four year award from the U S ARMY for comprehensive training of graduate students conducting breast cancer relevant research entitled Molecular Biology of Breast Neoplasia This program has successfully trained 12 predoctoral students and 3 postdoctoral fellows 14 of who are still actively pursuing research careers Trainees were exposed to the latest developments in breast cancer biology and treatment Students received laboratory training with senior basic science faculty and clinical investigators provided a translational link Members of the program participated in a weekly Journal Club and a monthly breast cancer research meeting to augment their research training The publication record of the trainees is indicative of the success of the Training Grant The instruction received by the trainees puts them in an ideal position to contribute to advancements in the treatment and prevention of breast cancer

The Enigmatic Realm of **Biology Investigatory Project Class Xii Breast Cancer**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Biology Investigatory Project Class Xii Breast Cancer** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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