# The 7 Main Molecular Subtypes of Breast Cancer

Receptors

HR: Hormone

ER: Estrogen receptor PR: Progesterone receptor

HER2: Human Epidermal Growth Factor receptor 2.

Luminal A (+40%)

HR4 (TR4 and to PR4), HERS-

- Most prevalent subtype and targeted therapy is flamositien.
- MicroRNAs miR 10, miR 25s, and miR181s are potential biomerkers of this breast cancer type that may assist in regulation.
- Examples: 20:75 1, 7470, MCF-7, MDAMB-415.

Luminal B (10-20%)

HER (Elle Brigley PRe), HERZES

- · High levels of Ki-47 with fast cancer cell growth:
- MicroRNAs milit 55, milk 1250, milk 4516 are potential biomarkers associated with this breast cancer type that may assist in therapeutic intervention.
- Examples: MOA-MB-330, 29:75-30

Luminal HER2 (5-10%)

- . High levels of KI-67 with faster concer cell growth.
- MicroRNAs miR-21, miR-200, miR-275 are potential biomarkers associated with this breast cancer type that may assist in targeting during experimentation.
- Examples: 87-474, MOA-MB-361, UACC-812

HER2-enriched (15-20%) HR-(IS-, PR-), HER2+

- Overexpression of receptor HER2 and targeted therapy Herceptin.
- mill 142 Up has been linked with having the actions of a tumor suppressor gene within this breast cancer type that may regulate tumor function and development.
- Examples: ALSSS, MOA-MB-453, HCC1564, SUM190PT, SK-8R-3.

Triple Negative (10-15%) HR (ER, PR), HERD

- Highest association to BRCAT mutation and most aggressive type.
- Chemotherapy and experimental therapy are prevetant for this breast cancer type.

Basal-like (-10%)

- Subset of Triple Negative
- . Enriched with basal markers such as cytokeratins and integrins
- Examples: SUM229PE, HCC70, 8120, CAL 148

Normal-like (+5%)

- . Subset of Trole Negative, also called claudin-low
- . Over express genes associated with tumor invasive and aggressive features.
- Examples: 81-549, MDA-M8-157, MDA-M8-231, Hs 5787.

Best prognosis





Worst

# **Cancer Cell Lines**

**Bernhard Ø Palsson, John Masters** 

#### **Cancer Cell Lines:**

Cancer Cell Lines Part 1 John R. W. Masters, Bernhard Palsson, 1999 This series provides the first complete guide to the culture of human cells It is a detailed manual and reference resource for researchers in every aspect of medicine biology technology and immunobiology using human cells Every chapter is written by an internationally recognised authority in the field The first three volumes in the series provide a comprehensive text on the culture of established cell lines from every type of human cancer They provide a basic manual and reference resource for every cancer research scientist using human Cancer Cell Lines Part 2 John Masters, Bernhard Ø Palsson, 2006-04-11 Continuous cell lines derived from human cancers are the mostwidely used resource in laboratory based cancer research The first 3 volumes of this series on Human Cell Culture are devoted to these cancer cell lines The chapters in these first 3 volumes have a common aim Their purpose is to address 3 questions offundamental importance to the relevanceof human cancer cell lines as model systems of each type of cancer 1 Do the cell lines available accurately represent the clinical presentation 2 Do the cell lines accurately represent the histopathology of the original tumors 3 Do the cell lines accurately represent the molecular genetics of this type of cancer The cancer cell lines available are derived in most cases from the more aggressive and advanced cancers There are few cell lines derived from low grade organ confined cancers This gap can be filled with conditionally immortalized human cancer cell lines We do not know why the success rate for establishing cell lines is so low for some types of cancer and so high for others The histopathology of the tumor of origin and the extent to which the derived cell line retains the differentiated features of that tumor are critical The concept that a single cell line derived from a tumor at a particular site is representative oftumors at that site is na ve and misleading Cancer Cell Lines Bernhard Ø Palsson, John Masters, 2006-04-11 This book describes all human leukemia lymphoma cell lines that have been established and that grow continuously under standardised in vitro conditions These lines are derived from cells belonging to all the major hematopoietic cell lineages i e B and T lymphocytes natural killer cells granulocytic cells and megakaryocytic cells The clinical data the culture conditions and the major phenotypic features of the cell lines are described with citations This book is the first book describing human leukemia lymphoma cell lines and will be of interest to scientists involved in the areas of hematology oncology immunology molecular biology and cytogenetics Cancer Cell Lines Volumes 1 3 These 3 volumes provide a comprehensive text on the culture of established cell lines from every type of human cancer The volumes provide a basic manual and reference resource for every cancer research scientist using human cancer cells Cancer Cell Lines John Masters, Bernhard Ø Palsson, 2013-11-13 Continuous cell lines derived from human cancers are the most widely used resource in laboratory based cancer research The first 3 volumes of this series on Human Cell Culture are devoted to these cancer cell lines The chapters in these first 3 volumes have a common aim Their purpose is to address 3 questions of fundamental importance to the relevance of human cancer cell lines as model systems of each type of cancer 1 Do the cell

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cell lines accurately represent the histopathology of the original tumors 3 Do the cell lines accurately represent the molecular genetics of this type of cancer The cancer cell lines available are derived in most cases from the more aggressive and advanced cancers There are few cell lines derived from low grade organ confined cancers This gap can be filled with conditionally immortalized human cancer cell lines We do not know why the success rate for establishing cell lines is so low for some types of cancer and so high for others The histopathology of the tumor of origin and the extent to which the derived cell line retains the differentiated features of that tumor are critical The concept that a single cell line derived from a tumor at a particular site is representative of tumors at that site is na ve and misleading Cell and Molecular Biology of **Endometrial Carcinoma** Hiroyuki Kuramoto, 2003-07-02 The 15th International Symposium of the Japan Human Cell Society on Cell and Molecular Biology of Endometrial Carcinoma brought together leading researchers from Japan and around the world The papers collected here are the work of twenty two leaders in their field and are organized in ten major categories The first section in vitro experimental systems takes up the pioneering work by Kuramoto in 1968 and Nishida in 1980 in establishing respectively the HEC 1 and hormone responsive endometrial carcinoma cell lines Other topics include apoptosis proliferation and growth factors cell cycle regulators signaling pathways angiogenesis carcinogenesis hormones and hormone receptors genes and gene expression endometrial receptivity and chemo resistance and sensitivity Presenting the latest work in the cell and molecular biology of endometrial carcinoma this volume is a valuable resource for gynecologists pathologists and molecular biologists Cancer Cell Culture Dania Movia, Adriele Prina-Mello, 2023-05-18 This volume explores the latest collection of cell models that are used in preclinical cancer research and covers both two dimensional and three dimensional culturing techniques The chapters in this book are divided into two parts Part One discusses two dimensional cancer cell culture cell models at the Air Liquid Interface and the latest advancements in three dimensional complex spheroid models and dedicated disease animal models Part Two contains technical chapters that illustrate step by step methodologies for specific cancer cell culture methods. The methods discussed range from the generation of isogenic cancer cell lines the use of serum free growth conditions and three dimensional cell cultures and their specific assays for the efficacy assessment of new anticancer therapies Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and comprehensive Cancer Cell Culture Methods and Protocols is a valuable tool to help researchers involved in this important field to further improve or advance their models for cancer research **Targeting Thyroid Cancer** Microenvironment and Epigenetic Signalling: New Frontiers in Cancer Endocrinology Basic and Clinical **Research, 2nd Edition** Carmelo Nucera, Cancer Cell Metabolism and Immunomodulation in the Context of Tumor Metastasis Qiongzhu Dong, Baoli Hu, Peter Jon Nelson, Hongquan Zhang, Yue Zhao, 2022-03-18 Exploration of Natural

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Preclinical cancer models for translational research and drug development Suresh P.K., Arindam Banerjee, 2025-03-13 This book provides updated information on certain in vitro and preclinical in vivo cancer models. The topics covered include an update on advancements in the diagnosis treatment and heterogeneity in certain cancers the development of preclinical in vitro and xenograft based in vivo cancer models as well as their validation based on widely accepted biomarkers modelling of aberrations in bioenergetics in cancers Also the importance and latest advances of in silico modeling for the design of new and potent anti cancer drugs has been reviewed Cutting edge and resourceful this book is valuable for researchers academicians and professionals involved in cancer research The Search for New Anticancer Drugs Michael Waring, B.A. Ponder, 1992-11-30 Most of the anti cancer drugs in use today were discovered by happy accident rather than design yet the rational design of better anti cancer drugs remains a cherished goal and one of the most important challenges facing medical science This book represents a compilation of views and progress reports which illustrate the diversity of approaches to the problem Recent research has confirmed the belief that critical genetic changes are at work in cancer cells The genome then DNA in biochemical terms surely represents a critical target for specific chemotherapy of cancer and several chapters address the issue of attacking DNA gene targetting and the like Others deal with principles of rational design exploitation of novel modalities and targets or the nuts and bolts of antitumour drug testing While no attempt has been made to provide a comprehensive coverage of this wide ranging and vitally important subject the present volume in the series will provide much food for thought Metastasis Lalage Wakefield, Kent W. Hunter, 2007 Metastasis is the most dreaded aspect of the carcinogenic process More than ninety percent of all cancer deaths are attributable to the consequences of the primary tumor successfully colonizing distant organs Unlike the situation with colon cancer a patient with breast cancer can never be considered cured since as many as a third of breast cancer patients who have apparently curative surgery for their primary tumors ultimately relapse with metastatic disease sometimes decades later Much effort is now devoted to understanding this process of metastasis and finding ways to predict and prevent its occurrence This publication covers recent advances in the field specifically as they relate to breast cancer The availability of new tools and technological approaches has prompted a reconsideration of the very definition of a metastasis Furthermore a number of commonly held myths are being explored and a new definition of a metastasis with important implications for clinical staging is being proposed Also a novel conceptual framework for cancer progression based on the system level dynamics of regulatory networks is presented and the role of chemokines in mediating some of **Advances in Molecular Pathology** 2018, 2018-10-09 This inaugural issue of Advances in Molecular Pathology will provide a comprehensive review of the most current practices trends and developments in the field of Molecular Pathology Publishing on an annual basis the volume will

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#### **Table of Contents Cancer Cell Lines**

- 1. Understanding the eBook Cancer Cell Lines
  - The Rise of Digital Reading Cancer Cell Lines
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Cancer Cell Lines
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Cancer Cell Lines
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Cancer Cell Lines
  - Personalized Recommendations
  - Cancer Cell Lines User Reviews and Ratings
  - Cancer Cell Lines and Bestseller Lists
- 5. Accessing Cancer Cell Lines Free and Paid eBooks
  - Cancer Cell Lines Public Domain eBooks
  - Cancer Cell Lines eBook Subscription Services
  - Cancer Cell Lines Budget-Friendly Options

- 6. Navigating Cancer Cell Lines eBook Formats
  - o ePub, PDF, MOBI, and More
  - Cancer Cell Lines Compatibility with Devices
  - Cancer Cell Lines Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cancer Cell Lines
  - Highlighting and Note-Taking Cancer Cell Lines
  - Interactive Elements Cancer Cell Lines
- 8. Staying Engaged with Cancer Cell Lines
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cancer Cell Lines
- 9. Balancing eBooks and Physical Books Cancer Cell Lines
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cancer Cell Lines
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Cancer Cell Lines
  - Setting Reading Goals Cancer Cell Lines
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cancer Cell Lines
  - Fact-Checking eBook Content of Cancer Cell Lines
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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