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Sherry X. Yang | Janet E. Dancey

Handbook of Therapeutic Biomarkers in Cancer

Second Edition



Handbook Of Therapeutic Biomarkers In Cancer

**Deepa Suhag, Swati Kaushik, Vinod
Bala Taxak**



Handbook Of Therapeutic Biomarkers In Cancer:

Handbook of Therapeutic Biomarkers in Cancer Taylor & Francis Group, 2021-02 This book provides a comprehensive overview of the fast evolving subject of clinical application of cancer therapeutic biomarkers The second edition captures significant progress of cancer immunotherapy and emphasizes the genetic basis for selective cancer treatment It covers an in depth insight on biomarkers across a broad area of cancer research and oncology with a wealth of integrated genetic and molecular information about specific therapies by a multidisciplinary team of internationally recognized experts Each chapter focuses on a class of targeted immunologic or chemotherapy agents and their companion biomarkers that predict response benefit or resistance and severe adverse event The book will serve as a handbook for health professionals and scientists on the current applicable biomarkers in the management of cancer The vision into the systemic classification and statistical consideration of therapeutic biomarkers summarized by the book editors and chapter authors will help advance precision medicine a precisely tailored cancer treatment strategy for cancer patient care [Handbook of Therapeutic Biomarkers in Cancer](#)

Sherry X. Yang, Janet E. Dancey, 2021-02-01 This book provides a comprehensive overview of the fast evolving subject of clinical application of cancer therapeutic biomarkers The second edition captures significant progress of cancer immunotherapy and emphasizes the genetic basis for selective cancer treatment It covers an in depth insight on biomarkers across a broad area of cancer research and oncology with a wealth of integrated genetic and molecular information about specific therapies by a multidisciplinary team of internationally recognized experts Each chapter focuses on a class of targeted immunologic or chemotherapy agents and their companion biomarkers that predict response benefit or resistance and severe adverse event The book will serve as a handbook for health professionals and scientists on the current applicable biomarkers in the management of cancer The vision into the systemic classification and statistical consideration of therapeutic biomarkers summarized by the book editors and chapter authors will help advance precision medicine a precisely tailored cancer treatment strategy for cancer patient care *The Handbook of Biomarkers* Kewal K. Jain, 2017-09-16

Involved in nearly every therapeutic area particularly cancer biomarkers have experienced tremendous advances since the first edition of this book both in the discovery of biomarkers and in their applications To aid in this imperative research Prof Kewal K Jain s *Handbook of Biomarkers Second Edition* features a full revision and additional chapters to thoroughly describe many different types of biomarkers and their discovery using various omics technologies along with the background information needed for the evaluation of biomarkers as well as the essential procedures for their validation and use in clinical trials With biomarkers described first according to technologies and then according to various diseases this detailed book features the key correlations between diseases and classifications of biomarkers which provides the reader with a guide to sort out current and future biomarkers Comprehensive and cutting edge *The Handbook of Biomarkers Second Edition* serves as a vital guide to furthering our understanding of biomarkers which by facilitating the combination of therapeutics with

diagnostics promise to play an important role in the development of personalized medicine one of the most important trends in healthcare today

Principles of Tumors Leon P. Bignold, 2019-11-01 Principles of Tumors A Translational Approach to Foundations Second Edition provides a concise summary of translational interdisciplinary topics on the various aspects of tumors especially abnormalities in their cells their causes and effects on patients Topics discussed include how genomic abnormalities in tumors may result from the actions of carcinogens and how genomic changes determine the cell biological morphological abnormalities in tumor cell populations In addition the relationships between tumor cell genomics and therapeutic outcomes are described There are also supporting appendices on general bioscience including the principles of histology the cells and tissues of the body genetics pathology radiology and pharmacology This book gives a thorough detailed yet concise account of the main bioscience clinical and therapeutic aspects of tumors It emphasizes the translational aspects of research into tumors with extensive discussions of interdisciplinary issues The content in this book will be invaluable for researchers and clinicians involved in collaborative projects where it is necessary to understand fundamental issues in other branches of biomedicine Presents content that has been totally updated with the most recent developments of the field including new chapters on tumor imaging exams new surgical techniques immunotherapy gene therapy and several novel therapies using natural and synthetic compounds Presents translational approaches for every topic to improve conceptual insights for new research projects Covers a broad range of subjects making it easier for the reader to understand related fields Includes diagrams for complex topics to aid in understanding for non specialists

Handbook of Biomarkers and Precision Medicine Claudio Carini, Mark Fidock, Alain van Gool, 2019-04-16 The field of Biomarkers and Precision Medicine in drug development is rapidly evolving and this book presents a snapshot of exciting new approaches By presenting a wide range of biomarker applications discussed by knowledgeable and experienced scientists readers will develop an appreciation of the scope and breadth of biomarker knowledge and find examples that will help them in their own work Maria Freire Foundation for the National Institutes of Health Handbook of Biomarkers and Precision Medicine provides comprehensive insights into biomarker discovery and development which has driven the new era of Precision Medicine A wide variety of renowned experts from government academia teaching hospitals biotechnology and pharmaceutical companies share best practices examples and exciting new developments The handbook aims to provide in depth knowledge to research scientists students and decision makers engaged in Biomarker and Precision Medicine centric drug development Features Detailed insights into biomarker discovery validation and diagnostic development with implementation strategies Lessons learned from successful Precision Medicine case studies A variety of exciting and emerging biomarker technologies The next frontiers and future challenges of biomarkers in Precision Medicine Claudio Carini Mark Fidock and Alain van Gool are internationally recognized as scientific leaders in Biomarkers and Precision Medicine They have worked for decades in academia and pharmaceutical industry in EU USA and Asia Currently Dr Carini is Honorary Faculty at Kings s College School

of Medicine London UK Dr Fidock is Vice President of Precision Medicine Laboratories at AstraZeneca Cambridge UK Prof dr van Gool is Head Translational Metabolic Laboratory at Radboud university medical school Nijmegen NL

The Oncogenomics Handbook William J. LaRoche, Richard A. Shimkets, 2007-11-09 An integrated overview of cancer drug discovery and development from the bench to the clinic showing with broad strokes and representative examples the drug development process as a network of linked components leading from the discovered target to the ultimate therapeutic product Following a systems biology approach the authors explain genomic databases and how to discover oncological targets from them how then to advance from the gene and transcript to the level of protein biochemistry how next to move from the chemical realm to that of the living cell and ultimately pursue animal modeling and clinical development Emerging cancer therapeutics including Rituxan, Erbitux, Gleevec, Herceptin, Avastin, ABX, EGF, Velcade, Kevance, Iressa, Tarceva and Zevalin are addressed Highlights include cancer genomics, pharmacogenomics, transcriptomics, gene expression analysis, proteomic and enzymatic cancer profiling technologies and cellular and animal approaches to cancer target validation

Handbook of Metastatic Breast Cancer Charles Swanton, Stephen R. D. Johnston, 2011-11-14 Recent developments with novel systemic drugs, palliative surgical techniques and diagnostic imaging have given hope for the treatment of patients whose breast cancer has spread beyond its primary tumour Written by a team from leading cancer centers in Europe including the UK's Royal Marsden Hospital the Handbook of Metastatic Breast Cancer Sec

Advances in Medical Biochemistry, Genomics, Physiology, and Pathology Raj Bawa, Esther H. Chang, Gerald F. Audette, Anil Diwan, Saadia A. Faiz, 2021-12-22 The pace and sophistication of advances in medicine in the past two decades have necessitated a growing need for a comprehensive reference that highlights current issues in medicine Each volume in the Current Issues in Medicine series is a stand alone text that provides a broad survey of various critical topics all accomplished in a user friendly yet interconnected format The series not only highlights current advances but also explores related topics such as translational medicine, regulatory science, neglected diseases, global pandemics, patent law, immunotoxicology, theranostics, big data, artificial intelligence, novel imaging tools, combination drug products and novel therapies While bridging the gap between basic research and clinical medicine this series provides a thorough understanding of medicine's potential to address health problems from both the patient's and the provider's perspectives in a healthcare setting The range of topics covered and the expertise of the contributing authors accurately reflect the rapidly evolving areas within medicine from basic medical sciences to clinical specialties Each volume is essential reading for physicians, medical students, nurses, fellows, residents, undergraduate and graduate students, educators, policymakers and biomedical researchers The multidisciplinary approach of the series makes it a valuable reference resource for the pharmaceutical industry, academia and governments However unlike other series on medicine or medical textbooks this series focuses on current trends, perspectives and issues in medicine that are central to healthcare delivery in the 21st century Volume 1 focuses on the current issues in basic medical sciences

subjects that are fundamental to the practice of medicine Specifically it covers medical biochemistry genomics physiology and pathology These subjects traditionally taught in the first two years of medical school that precede clinical instruction provide a core of basic knowledge critical to the success in clinical medicine during rotations training and medical practice

Oxford Handbook of Oncology ,2025-06-07 Now fully revised and in its fifth edition the Oxford Handbook of Oncology has been the essential go to guide for students junior doctors and medical professionals embarking on a career in oncology for over two decades The handbook includes an introduction to the scientific basis and diagnosis of cancers as well as drugs biomarkers and the presentation and psychosocial aspects of oncology Concise practical and comprehensive there is no better companion for both common conditions and challenging emergencies The field of oncology has surged forward since the last edition was published and the Oxford Handbook of Oncology has been fully revised and updated to reflect these recent advances so you can be sure that the vital information you need is in your hands This handbook incorporates changes such as the understanding of the science of cancer novel therapies in breast lung renal and melanoma molecular sub classification of common solid cancers personalized therapy approaches new agents in hard to treat cancers the benefits of new technologies in radiotherapy and the increasing role of immunotherapy and targeted anti cancer therapies Written by experts in the field to ensure that it is grounded in real life clinical practice this handbook provides a concise guide to all aspects of oncology for all students nurses and junior faculty responsible for the care of cancer patients while also providing further reading and highlighting areas of controversy for those who need a more detailed understanding Handbook for Clinical Trials of Imaging and Image-Guided Interventions Nancy A. Obuchowski,G. Scott Gazelle,2016-02-15 Handbook for Clinical Trials of Imaging and Image Guided Interventions is the first single source multi disciplinary reference based on the didactic sessions presented at the annual Clinical Trials Methodology Workshop for radiologists radiation oncologists and imaging scientists sponsored by the Radiological Society of North America RSNA It focuses on educating radiologists radiation oncologists and those involved in imaging research with how to design and conduct clinical trials to evaluate imaging technology and imaging biomarkers The internationally renowned contributors take a broad approach starting with principles of technology assessment and then move into specific topics covering the clinical trials of therapy and clinical research in imaging guided interventions including radiotherapy They discuss the use of imaging as a predictor of therapeutic response screening trial design and the practicalities of how to run an efficient clinical trial and good working practices Later chapters provide a comprehensive array of quantitative methods including an introduction to statistical considerations in study design biostatistical analysis methods and their role in clinical imaging research methods for quantitative imaging biomarker studies and an introduction to cost effectiveness analysis Handbook for Clinical Trials of Imaging and Image Guided Interventions will educate and prepare radiologists at all levels and in all capacities in planning and conducting clinical imaging trials The Cytotoxics Handbook Michael Allwood,Andrew Stanley,Patricia Wright,2002

Outlines the commitment of various government agencies to biotechnology industries in Australia Includes statements from AusIndustry Biotechnology Australia Invest Australia

Handbook of Translational Transcriptomics Anton Buzdin, 2025-05-16 Handbook of Translational Transcriptomics Research Protocols and Applications provides a comprehensive overview of the field of transcriptomics With an emphasis on the various protocols and techniques available for investigation it acts as a practical guide to researchers for implementing their own investigations in the field This book begins with an overview of the past present and potential approaches in the field of transcriptomics with discussions of choosing the correct approach based on the research needed It also highlights the pros and cons of each approach Following this it explores techniques and protocols for investigating specific approaches focusing on RNA sequencing expression arrays and gene expression It then delves into data analysis and offers recommendations guidelines and approaches related to data interpretation This book also considers the translation of transcriptomics to clinical use and applications in molecular diagnostics biomarkers in medicine and personalized medicine specific to oncology as well as biotechnology for pharmaceutical research Handbook of Translational Transcriptomics Research Protocols and Applications is a detailed reference that provides a complete view of transcriptomics ranging from methods to handling data and medical applications This book is an invaluable guide for researchers working across molecular biology genetics bioinformatics and related fields as well as graduate and PhD students in these areas Features practical guidance and protocols for researchers to replicate transcriptomic methods and techniques including wet lab techniques Includes useful information on analyzing and interpreting transcriptomic data Offers a detailed introduction into translational transcriptomics exploring both coding and noncoding RNAs including microRNA Investigates clinical implications of transcriptomics and applications to treating disease Considers some experimental and bioinformatic techniques in the field of transcriptomics as well as more established approaches

Handbook of Oncobiology: From Basic to Clinical Sciences R. C. Sobti, Nirmal K. Ganguly, Rakesh Kumar, 2024-05-14 This Handbook on cancer biology comprehensively reviews the current status of the oncobiology of major cancer types cancer detection and treatment strategies principles and processes of cancer drug development and nanomedicine and other emerging cancer medicine applications to cancer diagnosis and treatment The book also provides practical and implementable nutritional guidance in cancer prevention treatment and quality of life for cancer survivors It discusses pharmacogenetics strategies for predicting cancer prognosis and treatment exposure response and toxicity Further it presents bioinformatics approaches for predicting anti cancer drugs and drug combinations based on the multi omic data including transcriptomics toxicogenomics functional genomics and biological networks The Handbook also examines major factors and pathways that regulate cancer stem cells development and discusses potential targeted therapy for cancer stem cells The book explores the application of the CRISPR Cas9 based gene editing technique in basic cancer research diagnosis and treatment of cancer This Handbook is an invaluable source for oncologists researchers public health specialists

epidemiologists and policy makers *Haschek and Rousseaux's Handbook of Toxicologic Pathology* Wanda M Haschek, Colin G. Rousseaux, Matthew A. Wallig, Brad Bolon, Ricardo Ochoa, 2013-05-01 *Haschek and Rousseaux's Handbook of Toxicologic Pathology* is a key reference on the integration of structure and functional changes in tissues associated with the response to pharmaceuticals chemicals and biologics The 3e has been expanded by a full volume and covers aspects of safety assessment not discussed in the 2e Completely revised with many new chapters it remains the most authoritative reference on toxicologic pathology for scientists and researchers studying and making decisions on drugs biologics medical devices and other chemicals including agrochemicals and environmental contaminants New topics include safety assessment the drug life cycle risk assessment communication and management carcinogenicity assessment pharmacology and pharmacokinetics biomarkers in toxicologic pathology quality assurance peer review agrochemicals nanotechnology food and toxicologic pathology the environment and toxicologic pathology and more Provides new chapters and in depth discussion of timely topics in the area of toxicologic pathology and broadens the scope of the audience to include toxicologists and pathologists working in a variety of settings Offers high quality and trusted content in a multi contributed work written by leading international authorities in all areas of toxicologic pathology Features hundreds of full color images in both the print and electronic versions of the book to highlight difficult concepts with clear illustrations **Haschek and Rousseaux's**

Handbook of Toxicologic Pathology, Volume 1: Principles and Practice of Toxicologic Pathology Wanda M. Haschek, Colin G. Rousseaux, Matthew A. Wallig, Brad Bolon, 2021-10-20 *Haschek and Rousseaux's Handbook of Toxicologic Pathology* recognized by many as the most authoritative single source of information in the field of toxicologic pathology has been extensively updated to continue its comprehensive and timely coverage The fourth edition has been expanded to four separate volumes due to an explosion of information in this field requiring new and updated chapters Completely revised with a number of new chapters Volume 1 Principles and the Practice of Toxicologic Pathology covers the practice of toxicologic pathology in three parts Principles of Toxicologic Pathology Methods in Toxicologic Pathology and the Practice of Toxicologic Pathology Other volumes in this work round out the depth and breadth of coverage Volume 2 encompasses Toxicologic Pathology in Safety Assessment and Environmental Toxicologic Pathology These two sections cover the application of toxicologic pathology in developing specific product classes principles of data interpretation for safety assessment and toxicologic pathology of major classes of environmental toxicants Volumes 3 and 4 provide deep and broad treatment of Target Organ Toxicity emphasizing the comparative and correlative aspects of normal biology and toxicant induced dysfunction principal methods for toxicologic pathology evaluation and major mechanisms of toxicity These volumes comprise the most authoritative reference on toxicologic pathology for pathologists toxicologists research scientists and regulators studying and making decisions on drugs biologics medical devices and other chemicals including agrochemicals and environmental contaminants Each volume is being published separately Provides new chapters on digital pathology

juvenile pathology in vitro in vivo correlation big data technologies and in depth discussion of timely topics in the area of toxicologic pathology Offers high quality and trusted content in a multi contributed work written by leading international authorities in all areas of toxicologic pathology Features hundreds of full color images in both the print and electronic versions of the book to highlight difficult concepts with clear illustrations **All You Need to Know About**

Immunotherapy Hebooks, All You Need to Know About Immunotherapy A Beginner s Guide to Immunology and Oncology is a comprehensive handbook designed to provide readers with a solid foundation in the principles and practices of cancer treatment through immunotherapy Whether you re a patient caregiver healthcare professional or simply curious about the field of oncology this beginner s guide offers accessible explanations and practical insights into the complex world of cancer immunotherapy From demystifying the basics of immunology to exploring cutting edge advancements in cancer treatment this handbook covers a wide range of topics essential for understanding how immunotherapy works and its role in combating cancer Readers will learn about the immune system s role in cancer surveillance and defense the different types of immunotherapy treatments available and the potential benefits and risks associated with these therapies Written in clear and understandable language this handbook breaks down complex scientific concepts into digestible explanations making it accessible to readers with varying levels of medical knowledge Each chapter is structured to provide a comprehensive overview of key concepts supported by real life case studies expert perspectives and practical tips for navigating the world of cancer treatment Whether you re seeking to better understand your own cancer treatment options support a loved one through their cancer journey or simply expand your knowledge of immunotherapy and oncology All You Need to Know About Immunotherapy serves as an invaluable resource for anyone interested in learning more about this revolutionary approach to cancer care

Handbook of the Biology and Pathology of Mental Disorders Colin R. Martin,Victor R. Preedy,Vinood B. Patel,Rajkumar Rajendram,2025-08-30 Mental health disorders affect emotions behavior and thought processes which impact on the day to day functioning and well being of the individual and the family unit The consequences can be devastating and should be placed in the context that globally there are approximately 800 million people who have a mental health disorder of which approximately 500 million have either depression or anxiety Approximately 45 million people have bipolar disorder and 20 million have schizophrenia Eating disorders affects 15 million people Substance use disorders affects nearly a billion people worldwide In many cases treatment can be carried out using pharmacological and nonpharmacological regimens However it is important to consider that the biological and pathological elements of these mental disorders are often overlooked understanding which platforms for diagnosis and treatments This comprehensive reference covers the full range of psychological disorders examining the biological aspects of what is displayed as behavior Each major psychological disorder receives its own chapter with information on genetic chemical and biological components that are key factors in the etiology and course of the pathology The interrelationship of human behavior and physical health is a complex but critical

part of understanding the mental condition and this reference lays out a way of understanding the role of the biological mechanisms This handbook is designed for psychologists psychiatrists judicial professionals behavioral scientists pathologists psychologists psychiatric nurses and doctors neurologists health scientists general practitioners research scientists and all those interested in altered behavior mental health and disease It is also valuable as a personal reference book and for academic libraries that cover behavioral or medical sciences *Handbook of Biomaterials for Medical Applications, Volume 1* Deepa Suhag, Swati Kaushik, Vinod Bala Taxak, 2024-07-23 Handbook on Biomaterials for Medical Applications

Fundamentals is a critical monograph that merges advanced technological insights with practical applications in biomedical materials science It navigates through the intricate blend of theoretical knowledge and real world medical practices highlighting the significant roles these materials play in enhancing therapeutic outcomes Addressing the interdisciplinary nature of the field the book incorporates perspectives from chemistry biology engineering and clinical medicine This comprehensive guide covers novel biomaterials advanced drug delivery systems innovative tissue engineering and the emerging field of theranostics providing a holistic view of how these elements drive medical advancements This book can be a valuable reference for scholars researchers and healthcare practitioners Its text is richly illustrated with diagrams and tables facilitating both the understanding and application of complex concepts With an educational narrative accessible to both experts and beginners the monograph encourages a passion for innovation and a deep understanding of the transformative potential of multifunctional biomedical materials It invites readers to explore the confluence of materials science and therapeutic innovation setting the stage for future breakthroughs in medical science and therapy It can also be prescribed as a textbook for various graduate and undergraduate courses like tissue engineering and regenerative medicine nanomedicine biomedical engineering and biomaterials science and engineering **Handbook of Immunohistochemistry and in Situ Hybridization of Human Carcinomas** M. A. Hayat, 2004-06-16 The various cell types have traditionally been recognized and classified according to their appearance in the light microscope following the process of fixing processing sectioning and staining tissues that is known as histology Classical histology has been augmented by immunohistochemistry the use of specific antibodies to stain particular molecular species in situ Immunohistochemistry has allowed the identification of many more cell types than could be visualized by classical histology particularly in the immune system and among the scattered hormone secreting cells of the endocrine system Handbook of Immunohistochemistry and in Situ Hybridization of Human Carcinomas discusses all aspects of immunohistochemistry and in situ hybridization technologies and the important role they play in reaching a cancer diagnosis It provides step by step instructions on the methods of additional molecular technologies such as DNA microarrays and microdissection along with the benefits and limitations of each method The topics of region specific gene expression its role in cancer development and the techniques that assist in the understanding of the molecular basis of disease are relevant and necessary in science today ensuring a wide audience for

this book The only book available that translates molecular genetics into cancer diagnosis Provides the readers with tools necessary to perform and optimize sensitive powerful techniques including immunohistochemistry and fluorescence in situ hybridization used in tumor diagnosis Written by experts in this field the book provides theoretical considerations as well as practical approaches to carry out effectively these techniques Offers suggestions tips cautions and guidelines to avoid artifacts and misdiagnosis Introduces new techniques to detect genes and proteins involved in the initiation and progression of cancer Covers the latest developments and a wide range of applications to the detection of antigens and single copy DNA and RNA Written in a uniform format each chapter includes Introduction Materials required step by step detailed Methods Results Discussion and comprehensive up to date References

Handbook of Anticancer Pharmacokinetics and Pharmacodynamics Michelle A. Rudek, Cindy H. Chau, William D. Figg, Howard L. McLeod, 2014-01-10 There are many steps on the road from discovery of an anticancer drug to securing its final approval by the Food and Drug Administration In this thoroughly updated and expanded second edition of the Handbook of Anticancer Pharmacokinetics and Pharmacodynamics leading investigators synthesize an invaluable overview of the experimental and clinical processes of anticancer drug development creating a single indispensable reference that covers all the steps from the identification of cancer specific molecular targets to screening techniques and the development and validation of bioanalytical methods to clinical trial design and all phases of clinical trials The authors have included new material on phase 0 trials in oncology organ dysfunction trials drug formulations and their impact on anticancer drug PK PD including strategies to improve drug delivery pharmacogenomics and cancer therapy high throughput platforms in drug metabolism and transport pharmacogenetics imaging in drug development and nanotechnology in cancer Authoritative and up to date Handbook of Anticancer Pharmacokinetics and Pharmacodynamics 2nd Edition provides in one comprehensive and highly practical volume a detailed step by step guide to the successful design and approval of anticancer drugs Road map to anticancer drug development from discovery to NDA submission Discussion of molecular targets and preclinical screening Development and validation of bioanalytical methods Chapters on clinical trial design and phase 0 I II III clinical trials Pharmacokinetics pharmacodynamics pharmacogenomics and pharmacogenetics of anticancer agents Review of the drug development process from both laboratory and clinical perspectives New technological advances in imaging high throughput platforms and nanotechnology in anticancer drug development

Whispering the Secrets of Language: An Mental Quest through **Handbook Of Therapeutic Biomarkers In Cancer**

In a digitally-driven world where displays reign supreme and quick interaction drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within phrases frequently get unheard. Yet, situated within the pages of **Handbook Of Therapeutic Biomarkers In Cancer** a interesting literary prize pulsing with organic feelings, lies an extraordinary quest waiting to be undertaken. Written by an experienced wordsmith, this enchanting opus encourages readers on an introspective journey, softly unraveling the veiled truths and profound affect resonating within ab muscles cloth of every word. Within the emotional depths of the touching evaluation, we will embark upon a honest exploration of the book is key subjects, dissect their captivating writing type, and fail to the strong resonance it evokes serious within the recesses of readers hearts.

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