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modern biology owes much to the study of favorable model systems which facilitates the realization of critical experiments and results in the introduction of new concepts examples of such systems are numerous and studies of them are regularly recognized by the scientific community the 1983 nobel prize in medicine and physiology is a magnificent example in which *com* plants served as the experimental model in a manner somewhat more modest other biological systems have attracted recognition due to their critical phylogenetic position or indeed because of their uniqueness which distinguishes them from all other organisms assuredly among the whole assemblage of living organisms sponges stand out as worthy of interest by scientists they are simultaneously models an important group in evolution and animals unlike others as early as the beginning of this century sponges appeared as exceptional models for the study of phenomena of cell recognition innumerable works have been dedicated to understanding the mechanisms which assure the reaggregation of dissociated cells and the reconstitution of a functional individual today research on these phenomena is at the ultimate molecular level through an assemblage of characteristics the sponges are based upon all available evidence the most primitive metazoans their tissues perhaps one can say their cell groups are loosely assembled they possess no tight or gap junctions cell differentiation appears highly labile and they do not develop any true organs but they are most certainly metazoans annotation contains 42 seminal papers illustrating advances in cell biology along with brief commentaries that place the papers in historical and intellectual context all papers are studies of eukaryotes and are grouped according to themes of genome organization and replication transcription nuclear envelope and nuclear import mitosis and cell cycle control cell membrane and extracellular matrix protein synthesis and membrane traffic and cytoskeleton lacks a subject index gall teaches embryology at the carnegie institution mcintosh teaches cell biology at the university of colorado annotation c book

news inc portland or booknews com your hands on study guide to the inner world of the cell need to get a handle on molecular and cell biology this easy to understand guide explains the structure and function of the cell and how recombinant dna technology is changing the face of science and medicine you discover how fundamental principles and concepts relate to everyday life plus you get plenty of study tips to improve your grades and score higher on exams explore the world of the cell take a tour inside the structure and function of cells and see how viruses attack and destroy them understand the stuff of life molecules get up to speed on the structure of atoms types of bonds carbohydrates proteins dna rna and lipids watch as cells function and reproduce see how cells communicate obtain matter and energy and copy themselves for growth repair and reproduction make sense of genetics learn how parental cells organize their dna during sexual reproduction and how scientists can predict inheritance patterns decode a cell s underlying programming examine how dna is read by cells how it determines the traits of organisms and how it s regulated by the cell harness the power of dna discover how scientists use molecular biology to explore genomes and solve current world problems open the book and find easy to follow explanations of key topics the life of a cell what it needs to survive and reproduce why molecules are so vital to cells rules that govern cell behavior laws of thermodynamics and cellular work the principles of mendelian genetics useful sites important events in the development of dna technology ten great ways to improve your biology grade linking basic science to clinical application throughout histology and cell biology an introduction to pathology 5th edition helps students build a stronger clinical knowledge base in the challenging area of pathologic abnormalities this award winning text presents key concepts in an understandable easy to understand manner with full color illustrations diagrams photomicrographs and pathology photos fully integrated on every page student friendly features such as highlighted clinical terms

clinical conditions boxes essential concepts boxes concept mapping animations and more help readers quickly grasp complex information features new content on cancer immunotherapy satellite cells and muscle repair vasculogenesis and angiogenesis in relation to cancer treatment and mitochondria replacement therapies presents new material on ciliogenesis microtubule assembly and disassembly chromatin structure and condensation and x chromosome inactivation which directly impact therapy for ciliopathies infertility cancer and alzheimer s disease provides thoroughly updated information on gestational trophoblastic diseases molecular aspects of breast cancer and basic immunology including new illustrations on the structure of the t cell receptor cd4 cells subtypes and functions and the structure of the human spleen uses a new light green background throughout the text to identify essential concepts of histology a feature requested by both students and instructors to quickly locate which concepts are most important for beginning learners or when time is limited these essential concepts are followed by more detailed information on cell biology and pathology contains new primers in most chapters that provide a practical self contained integration of histology cell biology and pathology perfect for clarifying the relationship between basic and clinical sciences identifies clinical terms throughout the text and lists all clinical boxes in the table of contents for quick reference helps students understand the links between chapter concepts with concept mapping animations on student consulttm an outstanding supplement to in class instruction your hands on study guide to the inner world of the cell need to get a handle on molecular and cell biology this easy to understand guide explains the structure and function of the cell and how recombinant dna technology is changing the face of science and medicine you discover how fundamental principles and concepts relate to everyday life plus you get plenty of study tips to improve your grades and score higher on exams explore the world of the cell take a tour inside the structure

and function of cells and see how viruses attack and destroy them understand the stuff of life molecules get up to speed on the structure of atoms types of bonds carbohydrates proteins dna rna and lipids watch as cells function and reproduce see how cells communicate obtain matter and energy and copy themselves for growth repair and reproduction make sense of genetics learn how parental cells organize their dna during sexual reproduction and how scientists can predict inheritance patterns decode a cell s underlying programming examine how dna is read by cells how it determines the traits of organisms and how it s regulated by the cell harness the power of dna discover how scientists use molecular biology to explore genomes and solve current world problems open the book and find easy to follow explanations of key topics the life of a cell what it needs to survive and reproduce why molecules are so vital to cells rules that govern cell behavior laws of thermodynamics and cellular work the principles of mendelian genetics useful sites important events in the development of dna technology ten great ways to improve your biology grade written by a doctor cell biology for babies offers an introduction to the wonders of the human body this interactive picture book teaches young readers about the parts of a cell the basic building block of life and builds a foundation for future science education through words and pictures this book for children captures the imagination stimulates curiosity and facilitates a love for science in the next generation cell biology the ultimate concise introduction to modern cell biology now updated taking an essentials only approach cell biology a short course third edition tells the story of cells as the unit of life in a uniquely accessible student friendly manner completely updated from the previous edition and now in full color this accessible text features new chapters a supporting website for students and online supplemental material including powerpoint slides for instructors as in earlier editions the authors combine their expertise in the areas of cell biology physiology biochemistry and molecular biology to skillfully

present key concepts illustrating them with clear diagrams and numerous examples from current research special sections focus on the importance of cell biology in medicine and industry today with extensive cross referencing to real world research and development in updating this text the authors have provided such new material as a chapter on the cell biology of the immune system discussion of stem cells cytokine receptors the cell biology of cancer and cell division medical relevance text boxes a family tree of organisms to reinforce cell biology differences among major taxa online supplemental information for students including interactive quizzes and animations also included are a detailed description of intercellular signaling and a chapter devoted to a case study of cystic fibrosis review questions are included at the end of each chapter as well as a full glossary of key words and phrases to help make even the most complex concepts easy to master ideally suited for undergraduate cell biology biology majors pre med students and graduate and medical school courses in cell biology this third edition of cell biology is the most integrated introduction available on this fascinating and timely subject visit the companion website wileyshortcourse.com/cellbiology for supplementary material including animations video and useful links and references intended for use by advanced undergraduate graduate and medical students this book presents a study of the unique biochemical and physiological properties of neurons emphasising the molecular mechanisms that generate and regulate their activity case studies in cell biology presents real world scenarios to help readers use science process and reasoning skills the case studies require application and analyzation of concepts beyond rote memory of biological concepts the book is based on the student learning outcomes from the american society for cell biology offering practical application for both the classroom and research laboratory guides the reader in applying knowledge directly to real world scenarios includes case studies to bridge foundational cell biological concepts to

translational science aids students in synthesizing information and applying science processes with its acclaimed author team cutting edge content emphasis on medical relevance and coverage based on landmark experiments molecular cell biology has justly earned an impeccable reputation as an authoritative and exciting text the new sixth edition features two new coauthors expanded coverage of immunology and development and new media tools for students and instructors in the ten year interval since the first edition of this volume went to press our knowledge of extracellular matrix ecm function and structure has enormously increased extracellular matrix and cell matrix interaction are now routine topics in the meetings and annual reviews sponsored by cell biology societies research in molecular biology has so advanced the number of known matrix molecules and the topic of gene structure and regulation that we wondered how best to incorporate the new material for example we deliberated over the inclusion of chapters on molecular genetics we decided that with judicious editing we could present the recent findings in molecular biology within the same cell biology framework that was used for the first edition using three broad headings what is extracellular matrix how is it made and what does it do for cells maintaining control over the review of literature on the subject of ecm was not always an easy task but we felt it was essential to production of a highly readable volume one compact enough to serve the student as an introduction and the investigator as a quick update on graduate the important recent discoveries the first edition of this volume enjoyed considerable success we hope the reader finds this edition equally useful

elizabeth vii contents introductory remarks 1 elizabeth d hay part i what is extracellular matrix chapter 1 collagen t f linsenmayer 1 introduction 7 2 the collagen molecule 8 2 1 triple helical domains thrive in bioscience revision guides are written to help undergraduate students achieve exam success in all core areas of bioscience they communicate all the key concepts in a succinct easy

to digest way using features and tools both in the book and in digital form to make learning even more effective boiled down essentials of the top selling schaum s outline series for the student with limited time what could be better than the bestselling schaum s outline series for students looking for a quick nuts and bolts overview it would have to be schaum s easy outline series every book in this series is a pared down simplified and tightly focused version of its bigger predecessor with an emphasis on clarity and brevity each new title features a streamlined and updated format and the absolute essence of the subject presented in a concise and readily understandable form graphic elements such as sidebars reader alert icons and boxed highlights feature selected points from the text illuminate keys to learning and give students quick pointers to the essentials very little in our human experience is truly comparable to the immensely crowded and bustling interior of a cell biological numeracy provides a new kind of understanding of the cellular world this book brings together up to date quantitative data from the vast biological literature and uses the powerful tool of back of the envelope estimates to reveal fresh perspectives and insights from numbers commonly encountered in cell biology readers gain a feeling for the sizes concentrations energies and rates that characterize the lives of cells thereby shedding new light on the microscopic realm publisher s description international review of cell molecular biology presents current advances and comprehensive reviews in cell biology both plant and animal articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth authored by some of the foremost scientists in the field provides up to date information and directions for future research valuable reference material for advanced undergraduates graduate students and professional scientists methods in neurosciences volume 3 quantitative and qualitative microscopy is a collection of papers that deals with microscopic

techniques in statistical measures this volume describes microscopy using sophisticated stains and dyes to advance observation of tests and experiments section i describes autoradiography including micro chemical methods high resolution autoradiography and single or double label quantitative autoradiography for use in imaging of brain activity patterns or determining cerebral physiology section ii discusses the quantification of structures through statistical and computational methods including dynamic video imaging technology section iii explains the use of tracers toxins or dyes in tracing neuronal connections one paper addresses the use of small injections of axonally transported fluorescent tracers section iv explains staining technology such as using the silver impregnation method for frozen sections of human nervous tissue that are gathered from tissues preserved in formalin section v addresses freezing techniques and those using freeze fracture methods in neurobiology the text also discusses cryoprotection and other freezing methods to control ice crystals found in fixed or unfixed brain tissues section vi presents the combined and high resolution methods in polarization microscopy and microscopic investigations cellular biologists micro chemists and scientific researchers in the field of micro and cellular biology will appreciate this book this text provides basic core knowledge about how cells work and uses colour images and diagrams to emphasize concepts and aid understanding from publisher s description the problems book helps students appreciate the ways in which experiments and simple calculations can lead to an understanding of how cells work by introducing the experimental foundation of cell and molecular biology each chapter reviews key terms tests for understanding basic concepts and poses research based problems the problems book has been biology of t cells part a volume 341 the latest release in the international review of cell and molecular biology reviews and details current advances in cell and molecular biology the ircmb series maintains the highest standard by publishing timely topics

authored by prominent cell and molecular biologists specialized topics in this release include tcr signaling molecules and mechanisms tcr diversity purpose and generation transcriptional programs underlying t cell differentiation and function surface phenotypes of cd8 and cd4 t cells co stimulation and co inhibition in cd8 and cd4 t cells regulated cell death and t cells molecular mechanisms behind t cell priming by dcs and more publishes only invited review articles on selected topics authored by established and active cell and molecular biologists and drawn from international sources offers a wide range of perspectives on specific subjects this new volume number 123 of methods in cell biology looks at methods for quantitative imaging in cell biology it covers both theoretical and practical aspects of using optical fluorescence microscopy and image analysis techniques for quantitative applications the introductory chapters cover fundamental concepts and techniques important for obtaining accurate and precise quantitative data from imaging systems these chapters address how choice of microscope fluorophores and digital detector impact the quality of quantitative data and include step by step protocols for capturing and analyzing quantitative images common quantitative applications including co localization ratiometric imaging and counting molecules are covered in detail practical chapters cover topics critical to getting the most out of your imaging system from microscope maintenance to creating standardized samples for measuring resolution later chapters cover recent advances in quantitative imaging techniques including super resolution and light sheet microscopy with cutting edge material this comprehensive collection is intended to guide researchers for years to come covers sections on model systems and functional studies imaging based approaches and emerging studies chapters are written by experts in the field cutting edge material viruses interact with host cells in ways that uniquely reveal a great deal about general aspects of molecular and cellular structure and function molecular and cellular

biology of viruses leads students on an exploration of viruses by supporting engaging and interactive learning all the major classes of viruses are covered with separate chapters for their replication and expression strategies and chapters for mechanisms such as attachment that are independent of the virus genome type specific cases drawn from primary literature foster student engagement end of chapter questions focus on analysis and interpretation with answers being given at the back of the book examples come from the most studied and medically important viruses such as hiv influenza and poliovirus plant viruses and bacteriophages are also included there are chapters on the overall effect of viral infection on the host cell coverage of the immune system is focused on the interplay between host defenses and viruses with a separate chapter on medical applications such as anti viral drugs and vaccine development the final chapter is on virus diversity and evolution incorporating contemporary insights from metagenomic research key selling feature readable but rigorous coverage of the molecular and cellular biology of viruses molecular mechanisms of all major groups including plant viruses and bacteriophages illustrated by example host pathogen interactions at the cellular and molecular level emphasized throughout medical implications and consequences included quality illustrations available to instructors extensive questions and answers for each chapter the encyclopedia of cell biology four volume set offers a broad overview of cell biology offering reputable foundational content for researchers and students across the biological and medical sciences this important work includes 285 articles from domain experts covering every aspect of cell biology with fully annotated figures abundant illustrations videos and references for further reading each entry is built with a layered approach to the content providing basic information for those new to the area and more detailed material for the more experienced researcher with authored contributions by experts in the field the encyclopedia of cell biology provides a fully

cross referenced one stop resource for students researchers and teaching faculty across the biological and medical sciences fully annotated color images and videos for full comprehension of concepts with layered content for readers from different levels of experience includes information on cytokinesis cell biology cell mechanics cytoskeleton dynamics stem cells prokaryotic cell biology rna biology aging cell growth cell injury and more in depth linking to academic press elsevier content and additional links to outside websites and resources for further reading a one stop resource for students researchers and teaching faculty across the biological and medical sciences medical cell biology third edition focuses on the scientific aspects of cell biology important to medical students dental students veterinary students and prehealth undergraduates with its national board type questions this book is specifically designed to prepare students for this exam the book maintains a concise focus on eukaryotic cell biology as it relates to human and animal disease all within a manageable 300 page format this is accomplished by explaining general cell biology principles in the context of organ systems and disease this updated version contains 60 new material and all new clinical cases new topics include apoptosis and cell death from a neural perspective signal transduction as it relates to normal and abnormal heart function and cell cycle and cell division related to cancer biology 60 new material new topics include apoptosis and cell death from a neural perspective signal transduction as it relates to normal and abnormal heart function cell cycle and cell division related to cancer biology all new clinical cases serves as a prep guide to the national medical board exam with sample board style questions using exam master r technology exammaster com focuses on eukaryotic cell biology as it related to human disease thus making the subject more accessible to pre med and pre health students this textbook provides an introduction to dynamic modeling in molecular cell biology taking a computational and intuitive approach detailed illustrations examples

and exercises are included throughout the text appendices containing mathematical and computational techniques are provided as a reference tool this book is intended to be an accessible introduction to the cell biology of mammalian cells for junior or senior undergraduate students who have already had an introduction to biological sciences this engaging and stimulating text focuses on current controversies in cell biology to solve these puzzles the reader will learn how to answer a number of fundamental yet hard hitting questions in the field he or she is thus able to approach the subject with the right scientific attitude and build a firm foundation of understanding basic features of mammalian cells secretion division motility cell cell interactions are described using up to date references to the most current scientific literature the text is well illustrated with clearly understandable diagrams and numerous micrographs of cells this text will enable non specialists to acquire a better understanding of current issues in mammalian cell biology principles of cell biology third edition is an educational eye opening text with an emphasis on how evolution shapes organisms on the cellular level students will learn the material through 14 comprehensible principles which give context to the underlying theme that make the details fit together phagocytosis is the engulfment of particulate matter by cells it is a fundamental and probably primitive cell biological process which is important in single celled organisms such as amoeba multicellular animals including coelenterates and in higher animals in humans and other mammals specialised immune cells phagocytes utilise phagocytosis in their crucial role of engulfing and destroying infecting microbes yet surprisingly the biophysics and biochemistry underlying the process has only become clear recently with the advent of genetic manipulation and advances in single cell imaging in this volume the aim is to bring together recent fundamental advances that give a clear picture of the underlying mechanism involved in phagocytosis not only is this an important topic in its own right but a full

understanding of the process will have a potential impact on human medicine since as antibiotics become less effective in fight infection researchers are looking at alternative approaches including enhancing the natural immunity brought about by immune phagocytes the aim is to provide a comprehensive volume on the topic with separate chapters on identified recent advances each written by the major contributors in each area in addition the volume will attempt to give a wider overview than is often the case in single author reviews with an emphasis here on the cell biological understanding of phagocytosis using biophysical approaches alongside the biochemical and imaging approaches this textbook takes you on a journey to the basic concepts of cancer biology it combines developmental evolutionary and cell biology perspectives to then wrap up with an integrated clinical approach the book starts with an introductory chapter looking at cancer in a nut shell the subsequent chapters are detailed and the idea of cancer as a mass of somatic cells undergoing a micro evolutionary darwinian process is explored further the main hanahan and weinberg hallmarks of cancer are revisited in most chapters the fundamental experiments that led to key concepts connecting basic biology and biomedicine are highlighted in the book s closing section all of these concepts are integrated in clinical studies where molecular diagnosis as well as the various classical and modern therapeutic strategies are addressed the book is written in an easy to read language like a one on one conversation between the writer and the reader without compromising the scientific accuracy therefore this book is suited not only for advanced undergraduates and master students but also for patients or curious lay people looking for a further understanding of this shattering disease the much anticipated 3rd edition of cell biology delivers comprehensive clearly written and richly illustrated content to today s students all in a user friendly format relevant to both research and clinical practice this rich resource covers key principles of cellular function and uses them to explain how

molecular defects lead to cellular dysfunction and cause human disease concise text and visually amazing graphics simplify complex information and help readers make the most of their study time clearly written format incorporates rich illustrations diagrams and charts uses real examples to illustrate key cell biology concepts includes beneficial cell physiology coverage clinically oriented text relates cell biology to pathophysiology and medicine takes a mechanistic approach to molecular processes major new didactic chapter flow leads with the latest on genome organization gene expression and rna processing boasts exciting new content including the evolutionary origin of eukaryotes super resolution fluorescence microscopy cryo electron microscopy gene editing by crispr cas9 contributions of high throughput dna sequencing to understand genome organization and gene expression micrnas incrnas membrane shaping proteins organelle organelle contact sites microbiota autophagy erad motor protein mechanisms stem cells and cell cycle regulation features specially expanded coverage of genome sequencing and regulation endocytosis cancer genomics the cytoskeleton dna damage response necroptosis and rna processing includes hundreds of new and updated diagrams and micrographs plus fifty new protein and rna structures to explain molecular mechanisms in unprecedented detail physical biology of the cell is a textbook for a first course in physical biology or biophysics for undergraduate or graduate students it maps the huge and complex landscape of cell and molecular biology from the distinct perspective of physical biology as a key organizing principle the proximity of topics is based on the physical concepts that a top 25 choice 2016 title and recipient of the choice outstanding academic title oat award how much energy is released in atp hydrolysis how many mrnas are in a cell how genetically similar are two random people what is faster transcription or translation cell biology by the numbers explores these questions and dozens of others provid plants are composed of 17 essential and at least 5 beneficial elements and

these must be taken up as metal or nutrient ions to allow for growth and cell division much effort has been devoted to studying the physiology and biochemistry of metals and nutrients in plants the aspect of cell biology however is an emerging new field and much needs to be learned about sensing long distance communication within plants and cellular signal transduction chains in response to environmental stress cellular malfunction and consequently disease result when any of the key steps in metal and nutrient homeostasis are disrupted working together leading experts in their respective fields provide a new concept that reaches beyond plant nutrition and plasmalemma transport into cellular physiology each chapter contains basic information on uptake physiological function deficiency and toxicity syndromes long distance and intracellular transport the discussion is devoted to metals and nutrients where recent progress has been made and highlights the aspects of homeostasis and sensing signaling and regulation drawing parallels to other organisms including humans finally the book identifies gaps in our current knowledge and lays out future research directions karp's cell biology global edition continues to build on its strength at connecting key concepts to the experiments that reveal how we know what we know in the world of cell biology this classic text explores core concepts in considerable depth often adding experimental detail it is written in an inviting style to assist students in handling the plethora of details encountered in the cell biology course in this edition two new co authors take the helm and help to expand upon the hallmark strengths of the book improving the student learning experience international review of cytology presents current advances and comprehensive reviews in cell biology both plant and animal authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research this text tells the story of cells as the unit of life in a colorful and student friendly manner taking an essentials only approach by using the successful model of

previously published short courses this text succeeds in conveying the key points without overburdening readers with secondary information the authors all active researchers and educators skillfully present concepts by illustrating them with clear diagrams and examples from current research special boxed sections focus on the importance of cell biology in medicine and industry today this text is a completely revised reorganized and enhanced revision of from genes to cells this book develops the theory of continuous and discrete stochastic processes within the context of cell biology in the second edition the material has been significantly expanded particularly within the context of nonequilibrium and self organizing systems given the amount of additional material the book has been divided into two volumes with volume i mainly covering molecular processes and volume ii focusing on cellular processes a wide range of biological topics are covered in the new edition including stochastic ion channels and excitable systems molecular motors stochastic gene networks genetic switches and oscillators epigenetics normal and anomalous diffusion in complex cellular environments stochastically gated diffusion active intracellular transport signal transduction cell sensing bacterial chemotaxis intracellular pattern formation cell polarization cell mechanics biological polymers and membranes nuclear structure and dynamics biological condensates molecular aggregation and nucleation cellular length control cell mitosis cell motility cell adhesion cytoneme based morphogenesis bacterial growth and quorum sensing the book also provides a pedagogical introduction to the theory of stochastic and nonequilibrium processes fokker planck equations stochastic differential equations stochastic calculus master equations and jump markov processes birth death processes poisson processes first passage time problems stochastic hybrid systems queuing and renewal theory narrow capture and escape extreme statistics search processes and stochastic resetting exclusion processes wkb methods large deviation theory path integrals

martingales and branching processes numerical methods linear response theory phase separation fluctuation dissipation theorems age structured models and statistical field theory this text is primarily aimed at graduate students and researchers working in mathematical biology statistical and biological physicists and applied mathematicians interested in stochastic modeling applied probabilists should also find it of interest it provides significant background material in applied mathematics and statistical physics and introduces concepts in stochastic and nonequilibrium processes via motivating biological applications the book is highly illustrated and contains a large number of examples and exercises that further develop the models and ideas in the body of the text it is based on a course that the author has taught at the university of utah for many years the dictionary of cell and molecular biology fifth edition provides definitions for thousands of terms used in the study of cell and molecular biology the headword count has been expanded to 12 000 from 10 000 in the fourth edition over 4 000 headwords have been rewritten some headwords have second third and even sixth definitions while fewer than half are unchanged many of the additions were made to extend the scope in plant cell biology microbiology and bioinformatics several entries related to specific pharmaceutical compounds have been removed while some generic entries alpha blockers nsaid and tetracycline antibiotics for example and some that are frequently part of the experimentalist s toolkit and probably never used in the clinic have been retained the appendix includes prefixes for si units the greek alphabet useful constants and single letter codes for amino acids thoroughly revised and expanded by over 20 with over 12 000 entries in cellular and molecular biology includes expanded coverage of terms including plant molecular biology microbiology and biotechnology areas consistently provides the most complete short definitions of technical terminology for anyone working in life sciences today features extensive cross references provides multiple definitions

notes on word origins and other useful features

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