

3.1 Movement of Substance Across the Plasma Membrane

Structure of the Plasma Membrane

1. S.J. Singer and G. L. Nicolson introduced the fluid-mosaic model of plasma membrane.
 - Proteins are dispersed throughout the phospholipid bilayer.
 - Proteins float about in phospholipid bilayer to form a mosaic pattern that always changes.
 - Plasma membrane present in a flexible, non-static and dynamic state.
2. Plasma membrane composed mainly of phospholipid bilayer and proteins.

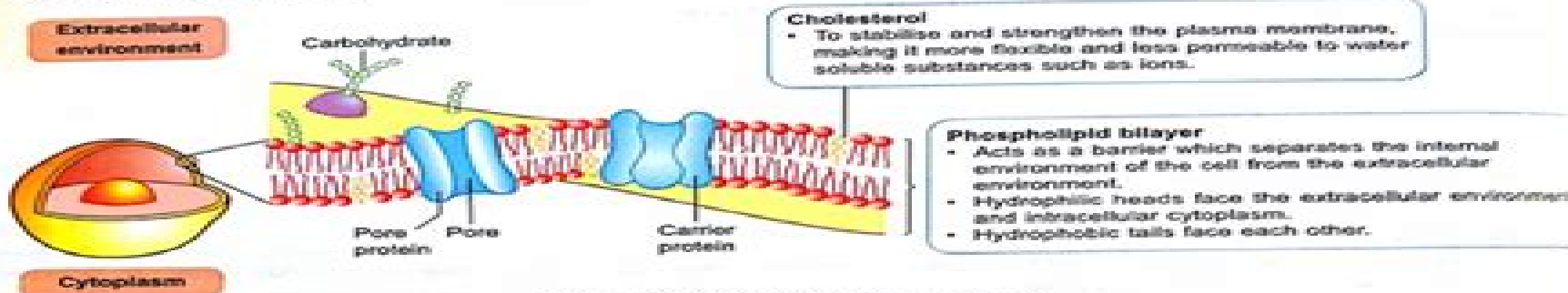


Diagram 3.1 Structure of plasma membrane

Characteristics of Plasma Membrane

1. Selectively permeable
 - It only allows certain substances to pass through but not others
2. Dynamic or flexible

Table 3.1 Components of plasma membrane

Components of plasma membrane	Phospholipid bilayer	Transport proteins	
		Carrier protein	Pore protein
Characteristics	A triglyceride	A protein	A protein
Substances that move across the plasma membrane	<ul style="list-style-type: none"> • Lipid soluble molecules • Non-polar molecules • Small molecules 	<ul style="list-style-type: none"> • Large molecules • Water soluble molecules 	<ul style="list-style-type: none"> • Small molecules • Water soluble molecules or polar molecules

Functions of plasma membrane

1. To control the substances that are entering or leaving the cell
2. To maintain a constant internal environment (homeostasis) of the cell
3. For gaseous exchange
4. To transport nutrients into the cell
5. To excrete waste products out from the cell

Express Tip



Biology Paper 3 Form 4 Chapter

Patrick J. Lincoln, Jim Thomson



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Biology J. B. Chook, 2007 **Men, Microscopes, and Living Things** Katherine B. Shippen, 2016-08-02 This is a re-publication of Katherine B Shippen's 1955 book which is a history of the study of biology from Aristotle to Thomas Hunt Morgan Each chapter is about a different scientist or theory The book is aimed at middle school science students *Writing Papers in the Biological Sciences* Vicky McMillan, 2012 Designed primarily for undergraduates this self help manual offers straightforward solutions to common problems and an overview of the diversity of writing tasks faced by professional biologists **Resources in Education**, 1997 [Oswaal CBSE Question Bank Class 12 Biology, Chapterwise and Topicwise Solved Papers For Board Exams 2025](#) Oswaal Editorial Board, 2024-01-23 Description of the product 100% Updated Syllabus Fully Solved Board Papers we have got you covered with the latest and 100% updated curriculum Crisp Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics Extensive Practice with 3000 Questions Board Marking Scheme Answers to give you 3000 chances to become a champ Concept Clarity with 1000 Concepts 50 Concept Videos for you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Art Integration Competency Based Questions for you to be on the cutting edge of the coolest educational trends **Biology** Anne Tindale, 1998 This book offers complete coverage of the CSEC Biology syllabus Concise well organised text with annotated study diagrams Emphasis on genetics diseases and the environment Specimen questions in the style of the examination Guidance on planning revision and work presentation **The Runes of Evolution** Simon Conway Morris, 2015-06-30 How did human beings acquire imaginations that can conjure up untrue possibilities How did the Universe become self aware In *The Runes of Evolution* Simon Conway Morris revitalizes the study of evolution from the perspective of convergence providing us with compelling new evidence to support the mounting scientific view that the history of life is far more predictable than once thought A leading evolutionary biologist at the University of Cambridge Conway Morris came into international prominence for his work on the Cambrian explosion especially fossils of the Burgess Shale and evolutionary convergence which is the process whereby organisms not closely related not monophyletic independently evolve similar traits as a result of having to adapt to similar environments or ecological niches In *The Runes of Evolution* he illustrates how the ubiquity of convergence hints at an underlying framework whereby many outcomes not least brains and intelligence are virtually guaranteed on any Earth like planet Conway Morris also emphasizes how much of the complexity of advanced biological systems is inherent in microbial forms By casting a wider net *The Runes of Evolution* explores many neglected evolutionary questions Some are remarkably general Why for example are convergences such as parasitism carnivory and nitrogen fixation in plants concentrated in particular taxonomic hot spots Why do certain groups have a particular propensity to evolve toward particular states Some questions lead to unexpected evolutionary insights If bees sleep as they do do they dream Why is that insect copulating with an orchid Why have sponges

evolved a system of fiber optics What do mantis shrimps and submarines have in common If dinosaurs had not gone extinct what would have happened next Will a saber toothed cat ever re evolve Cona Morris observes Even amongst the mammals let alone the entire tree of life humans represent one minute twig of a vast and largely fossilized arborescence Every living species is a linear descendant of an immense string of now vanished ancestors but evolution itself is the very reverse of linear Rather it is endlessly exploratory probing the vast spaces of biological hyperspace Indeed this book is a celebration of how our world is and was populated by a riot of forms a coruscating tapestry of life The Runes of Evolution is the most definitive synthesis of evolutionary convergence to be published to date

Biology Under the Influence Richard Lewontin, Richard Levins, 2007-11 Provides a devastating critique of genetic determinism and reductionism within science while exploring a broad range of issues including the nature of science biology evolution the environment public health and dialectics Monthlyreview.org

A Mark of the Mental Karen Neander, 2017-06-16 Drawing on insights from causal theories of reference teleosemantics and state space semantics a theory of naturalized mental representation In A Mark of the Mental Karen Neander considers the representational power of mental states described by the cognitive scientist Zenon Pylyshyn as the second hardest puzzle of philosophy of mind the first being consciousness The puzzle at the heart of the book is sometimes called the problem of mental content Brentano's problem or the problem of intentionality Its motivating mystery is how neurobiological states can have semantic properties such as meaning or reference Neander proposes a naturalistic account for sensory perceptual nonconceptual representations Neander draws on insights from state space semantics which appeals to relations of second order similarity between representing and represented domains causal theories of reference which claim the reference relation is a causal one and teleosemantic theories which claim that semantic norms at their simplest depend on functional norms She proposes and defends an intuitive theoretically well motivated but highly controversial thesis sensory perceptual systems have the function to produce inner state changes that are the analogs of as well as caused by their referents Neander shows that the three main elements functions causal information relations and relations of second order similarity complement rather than conflict with each other After developing an argument for teleosemantics by examining the nature of explanation in the mind and brain sciences she develops a theory of mental content and defends it against six main content determinacy challenges to a naturalized semantics

Forensic DNA Profiling Protocols Patrick J. Lincoln, Jim Thomson, 1998-01-22 This state of the art collection of easily reproducible methods includes all of the major techniques of DNA analysis currently used in forensic identity testing The methods include the recovery of DNA from a large range of sample types analysis of DNA as single and multi locus VNTR probes PCR amplification of STR and other loci and mitochondrial sequencing The expert scientists writing here many from laboratories around the world also discuss how to interpret the results in cases of unknown identity and disputed parentage Covers all steps from extraction of human DNA through to analysis and interpretation Takes advantage of new methodologies such as

capillary electrophoresis Clear step by step instructions ensure unfailing reproducibility

Environmental Psychology for Design Dak Kopec, 2018-02-08 How does a room affect an occupant's behavior and well being How does a building influence its residents health Environmental Psychology for Design 3rd Edition explores these questions with an in depth look at psychosocial responses to the built environment Awarded the 2006 ASID Joel Polsky Prize the first edition served as an introduction to the discipline of environmental psychology and inspired readers to embrace its key concepts and incorporate them into their practice This 3rd edition continues to analyze the interaction between environments and human behavior and well being while exploring how individual differences related to age gender and cultural background impact that interaction Environmental Psychology for Design STUDIO Study smarter with self quizzes featuring scored results and personalized study tips Review concepts with flashcards of terms and definitions PLEASE NOTE Purchasing or renting this ISBN does not include access to the STUDIO resources that accompany this text To receive free access to the STUDIO content with new copies of this book please refer to the book STUDIO access card bundle ISBN 9781501321801

Biology John Moore, 2004-08 Teacher Manual for Biology A Search for Order in Complexity

Daily Giving Service Moira M. W. Chan-Yeung, 2022-11-11 In Daily Giving Service A History of the Diocesan Girls School Hong Kong Moira M W Chan Yeung and her fellow contributors present a comprehensive history of one of Hong Kong's oldest girls schools As an alumna of the school Chan Yeung traces the history of her alma mater from its establishment in 1860 its development over the last 150 years until the recent decade Having experienced stability and turbulences in Hong Kong in the twentieth century the school has become one of the most prominent girls schools in the city In several chapters written by other alumni various aspects of school life of different eras are reconstructed and remembered The author and other contributors focused on the postwar era in which Hong Kong grew from a small city to a global metropolitan The expansion of the Diocesan Girls School largely followed this trend The history of the school has also long been connected with the socio economic development of Hong Kong society sharing its happiness and sadness This book is likely to become the gold standard against which all future school histories in Hong Kong are judged Comprehensive insightful and full of fascinating anecdote the inspiring story of DGS is told both chronologically in Moira Chan's main text and thematically in the specialist chapters contributed by her co authors This is a school history that tells us much about the larger story of education in Hong Kong while focusing on a single educational institution Peter Cunich Director Centenary History Project The University of Hong Kong The history of DGS reinforces my observation that Hong Kong schools form an unusual system that combines the best of East and West in the philosophy and practice of education The younger schools in Hong Kong that mushroomed later were basically modelled after schools such as DGS That accounts for the excellence envied by many Cheng Kai ming SBS JP Professor Emeritus The University of Hong Kong The history of DGS reveals how the path taken by the school over the years reflects the very qualities that define a person DGS like our home Hong Kong has witnessed in equal measure challenges disasters and

triumphs and has dealt with them with equanimity Dignity respect tolerance courage fairness honesty and of course excellence underpinned by pastoral care represent those essential qualities that have had to be called upon As we now know they have become the minimum tools expected of her students to realise fully their true potential in life and properly contribute to our community This is their story The Honourable Mr Geoffrey Ma Tao li GBM Former Chief Justice of the Court of Final Appeal 2010 2021

Ethics and Public Policy Jonathan Wolff, 2019-08-05 Ethics and Public Policy A Philosophical Inquiry second edition subjects important and controversial areas of public policy to philosophical scrutiny Jonathan Wolff a renowned philosopher and veteran of many public committees introduces and assesses core problems and controversies in public policy from a philosophical standpoint Each chapter focuses on an important area of public policy where there is considerable moral and political disagreement Topics discussed include Can we defend inflicting suffering on animals in scientific experiments for human benefit What limits to gambling can be achieved through legislation What assumptions underlie drug policy Can we justify punishing those who engage in actions that harm only themselves What is so bad about crime What is the point of punishment Other chapters discuss health care disability safety and the free market Throughout the book fundamental questions for both philosopher and policy maker recur what are the best methods for connecting philosophy and public policy Should thinking about public policy be guided by an an ideal world or the world we live in now If there are knock down arguments in philosophy why are there none in public policy Revised throughout to reflect changes in policy and research this second edition includes four new chapters on risky new technologies the future of work poverty and immigration Each chapter concludes with Lessons for Philosophy making this book not only an ideal introduction for those coming to philosophy ethics or public policy for the first time but also a vital resource for anyone grappling with the moral complexity underlying policy debates

Vaccinia Virus and Poxvirology Stuart N. Isaacs, 2008-02-03 The Right Book at the Right Time The poxviruses comprise a family of complex DNA viruses that replicate in the cytoplasm of vertebrate or invertebrate cells Of the eight recognized genera of vertebrate poxviruses those belonging to the orthopoxvirus genus have been most intensively studied This group includes variola virus the agent of smallpox as well as cowpox virus and vaccinia virus Jenner's original smallpox vaccine described in 1798 consisted of live cowpox virus but vaccinia virus later replaced it 1 There has been speculation as to the origin of vaccinia virus the most likely idea is that it is a separate species possibly originally isolated from a horse and is now extinct or rare in nature 2 Recent genome sequencing studies confirm the distinctness of variola virus cowpox virus and vaccinia virus and also their very close genetic relationship which accounts for the cross protection of smallpox vaccines The novelty of the smallpox vaccine can be readily appreciated by the time it took about 80 years before the next live vaccine against rabies was developed and another 50 years for the yellow fever vaccine Moreover the eradication of smallpox in 1977 stands as a unique medical achievement Because of its historical role smallpox vaccination contributed greatly to present concepts of infectious disease immunity and pathogenesis Less well known

however are the many other firsts for vaccinia virus

Confocal Microscopy Stephen W. Paddock, 2008-02-03 In *Confocal Microscopy Methods and Protocols* Stephen Paddock and a highly skilled panel of experts lead the researcher using confocal techniques from the bench top through the imaging process to the journal page They concisely describe all the key stages of confocal imaging from tissue sampling methods through the staining process to the manipulation presentation and publication of the realized image Written in a user friendly nontechnical style the methods specifically cover most of the commonly used model organisms worms sea urchins flies plants yeast frogs and zebrafish Centered in the many biological applications of the confocal microscope the book makes possible the successful imaging of both fixed and living specimens using primarily the laser scanning confocal microscope The powerful hands on methods collected in *Confocal Microscopy Methods and Protocols* will help even the novice to produce first class cover quality confocal images

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Marriage, Family and Relationships Thomas A. Noble, Sarah K. Whittle, Philip S. Johnston, 2017-06-15 Family life has undergone revolutionary changes in Western society in the last sixty years posing both theological and ethical challenges for the contemporary church This book responds with wide ranging essays on sexuality marriage family life singleness same sex relationships violence against women anthropology gender and culture These chapters are essential reading for anyone concerned with Christian teaching on marriage and the family They balance a clear loyalty to the church's historic and biblical teaching with a recognition that all doctrine is contextualized There is a growing gap between the ethics of many Christians and those of wider society So Christians have to be counter cultural But the church also has to be self critical differentiating between biblical revelation and cultural development And it must know how to present unchanging Christian convictions to a constantly changing society The contributors are Andy Angel Daniel Block Rosalind Clarke Barry Danylak Andrew Goddard Stephen Holmes David Instone Brewer A T B McGowan Nicholas Moore Onesimus Ngundu Oliver O Donovan Ian Paul Andrew Sloane Katy Smith Elaine Storkey and Sarah Whittle Contents Introduction Thomas A Noble Sarah K Whittle and Philip S Johnston Part 1 Biblical perspectives 1 The patricentric vision of family in the book of Deuteronomy Daniel Block 2 Ordered relationships in Leviticus Katy Smith 3 Who is this coming up from the wilderness Identity and interpretation in the Song of Songs Rosalind Clarke 4 The sexuality of God incarnate Andy Angel 5 Developing a biblical theology of singleness Barry Danylak 6 Let even those who have wives be as though they had none 1 Corinthians 7 29 and the challenge of the apocalyptic Paul Sarah K Whittle 7 Are we sexed in heaven Bodily form sex identity and the resurrection Ian Paul 8 Deferring to Dad's discipline family life in Hebrews 12 Nicholas Moore 9 Evidence of non heterosexual inclinations in first century

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