

Transport in and out of cells

Cells must take in useful substances like glucose and oxygen for respiration, and remove waste substances such as carbon dioxide and urea. Cells must also control how much water they contain. The cells use three transport processes to do this: **diffusion**, **osmosis** and **active transport**.

Diffusion

Particles move around randomly. They bump into each other and this moves them all around.



Diffusion is the net movement of particles from an area of high concentration to an area of low concentration down a concentration gradient.

(+ Use the diagram to the left to help you remember this important definition)

Factors that affect the rate of diffusion include:

Temperature	An increase in temperature causes particles to move around more quickly and increases the rate of diffusion.
Surface Area	If the diffusion surface has folds in it then it has a larger surface area over which diffusion can take place. This increases the rate of diffusion.
The difference in concentration	The bigger the difference in concentration, the steeper the concentration gradient, and the faster the rate of diffusion.

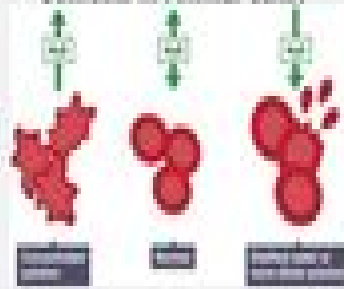
Osmosis

Osmosis is the diffusion of water molecules across a partially permeable membrane.

Osmosis is the diffusion of water molecules from a dilute solution to a concentrated solution across a partially permeable membrane.



Osmosis in Animal cells:



Exchanging substances if your big

Large multicellular organisms (anything bigger than a worm) aren't able to get the nutrients they need just by diffusion from their surroundings because they have a **small surface area to volume ratio**. Instead, they have adaptations to increase the rate of diffusion. Exchange surfaces (like the lungs, the intestines and gills in fish) have adaptations to increase diffusion. They normally have:

- A large surface area
- A thin membrane (to provide a short diffusion distance)
- Having an efficient blood supply
- Are well ventilated (animal lungs)

You will learn about specific adaptations of these in B3 and B4.

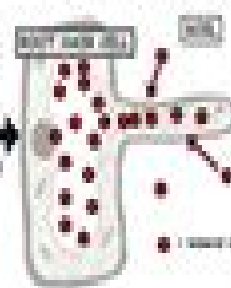
Active transport moves substances from an area of low concentration to an area of high concentration against a concentration gradient. It requires energy from respiration.



Active transport allows:

- mineral ions to be absorbed into plant root hairs from very dilute (low concentration) solutions in the soil. Plants require ions for healthy growth.
- glucose molecules to be absorbed from the lower concentrations in the gut into the blood which has a higher glucose concentration.

This is achieved by special 'protein pumps' found in the cell membranes.



Osmosis in Plant cells:



This is what happens at the microscopic level of the cells, but you can do lab experiments with whole tissues, such as in this topic's osmosis required practical involving whole potato chips.

B1 Knowledge Organiser

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Revolution in Higher Education Richard A. Demillo, 2017-03-03 A report from the front lines of higher education and technology that chronicles efforts to transform teaching learning and opportunity Colleges and universities have become increasingly costly and except for a handful of highly selective elite institutions unresponsive to twenty first century needs But for the past few years technology fueled innovation has begun to transform higher education introducing new ways to disseminate knowledge and better ways to learn all at lower cost In this impassioned account Richard DeMillo tells the behind the scenes story of these pioneering efforts and offers a roadmap for transforming higher education Building on his earlier book *Abelard to Apple* DeMillo argues that the current system of higher education is clearly unsustainable Colleges and universities are in financial crisis Tuition rises inexorably Graduates of reputable schools often fail to learn basic skills and many cannot find suitable jobs Meanwhile student loan default rates have soared while the elite Ivy and near Ivy schools seem remote and irrelevant Where are the revolutionaries who can save higher education DeMillo's heroes are a small band of innovators who are bringing the revolution in technology to colleges and universities DeMillo chronicles among other things the invention of MOOCs Massive Open Online Courses by professors at Stanford and MIT Salman Khan's Khan Academy the use of technology by struggling historically black colleges and universities to make learning more accessible and the latest research on learning and the brain He describes the revolution's goals and the entrenched hierarchical system it aims to overthrow and he reframes the nature of the contract between society and its universities The new institutions of a transformed higher education promise to demonstrate not only that education has value but also that it has values virtues for the common good

Specialised membrane domains of plasmodesmata, plant intercellular nanopores Jens Tilsner, Emmanuelle Bayer, Sébastien MONGRAND, Lesley Torrance, 2014-12-17 Plasmodesmata PD are plant specific intercellular nanopores defined by specialised domains of the plasma membrane PM and the endoplasmic reticulum ER both of which contain unique proteins and probably different lipid compositions than the surrounding bulk membranes The PD membranes form concentric tubules with a minimal outer diameter of only 50 nm and the central ER strand constricted to 10-15 nm representing one of the narrowest stable membrane tubules in nature This unique membrane architecture poses many biophysical structural and functional questions PM continuity across PD raises the question as to how a locally confined membrane site is established and maintained at PD There is increasing evidence that the PM within PD may be enriched in membrane rafts or TET web domains Lipid rafts often function as signalling platforms in line with the emerging view of PD as central players in plant defense responses Lipid lipid immiscibility could also provide a mechanism for membrane subcompartmentalisation at PD Intricate connections of the PM to the wall and the underlying cytoskeleton and ER may anchor the specialised domains locally The ER within PD is even more strongly modified Its extreme curvature suggests that it is stabilised by densely packed proteins potentially members of the reticulon family that tubulate the cortical ER The diameter

of the constricted ER within PD is similar to membrane stalks in dynamin mediated membrane fission during endocytosis and may need to be stabilised against spontaneous rupture The function of this extreme membrane constriction and the reasons why the ER is connected between plant cells remain unknown Whilst the technically challenging search for the protein components of PD is ongoing there has been significant recent progress in research on biological membranes that could benefit our understanding of PD function With this Research Topic we therefore aim to bring together researchers in the PD field and those in related areas such as membrane biophysics membrane composition and fluidity protein lipid interactions lateral membrane heterogeneity lipid rafts membrane curvature and membrane fusion fission We wish to address questions such as What mechanisms restrict lateral mobility of proteins and lipids along the PD membranes How can specific proteins be targeted to and turned over from membrane domains with restricted lateral access What elements lipids proteins membrane curvature packing order thickness etc may contribute to the identity of PD membranes How do the structural and functional features of PD compare to other ER PM contact sites How is the high curvature of the PD ER stabilised and what are possible functions of such a tightly constricted membrane tubule Do PD need to be prevented from spontaneous collapse and sealing What technologies are available to address these questions that can underpin PD research We welcome interested individuals to contribute their expertise and develop new hypotheses on the particular biological and biophysical questions posed by PD We are particularly looking for articles Original Research Articles Technical Advances and State of the Art reviews that would expand on or challenge current perceptions of PD and stimulate discussion

Essential Criminology Mark M. Lanier, 2018-04-19 In the fourth edition of *Essential Criminology* authors Mark M Lanier Stuart Henry and Desire M Anastasia build upon this best selling critical review of criminology which has become essential reading for students of criminology in the 21st century Designed as an alternative to overly comprehensive lengthy and expensive introductory texts *Essential Criminology* is as its title implies a concise overview of the field The book guides students through the various definitions of crime and the different ways crime is measured It then covers the major theories of crime from individual level classical and rational choice to biological psychological social learning social control and interactionist perspectives In this latest edition the authors explore the kind of criminology that is needed for the globally interdependent twenty first century With cutting edge updates illustrative real world examples and new study tools for students this text is a necessity for both undergraduate and graduate courses in criminology

Top-Down Causation and Emergence Jan Voosholz, Markus Gabriel, 2021-08-06 This book presents the latest research conducted by leading philosophers and scientists from various fields on the topic of top down causation The chapters combine to form a unique interdisciplinary perspective drawing upon George Ellis's extensive research and novel perspectives on topics including downwards causation weak and strong emergence mental causation biological relativity effective field theory and levels in nature The collection also serves as a Festschrift in honour of George Ellis 80th birthday The extensive and interdisciplinary scope of this book makes it vital

reading for anyone interested in the work of George Ellis and current research on the topics of causation and emergence

Promiscuous Functions of the Prion Protein Gene Family Sophie Mouillet-Richard, Jean-Luc Vilotte, 2015-07-22 The cellular prion protein PrPC is a ubiquitous GPI anchored protein While PrPC has been the focus of intense research for its involvement in a group of neurodegenerative disorders known as transmissible spongiform encephalopathies TSE much less attention has been devoted to its physiological function This notably relates to the lack of obvious abnormalities of mice goat or cattle lacking PrPC This apparently normal phenotype in these PrPC deficient animals however contrasts with the very high degree of conservation of the prion protein gene Prnp in mammalian species over 80% and the presence of genes with similarities to Prnp in birds reptiles amphibians and fish This high conservation together with its ubiquitous expression albeit at highest levels in the brain suggest that PrPC has major physiological functions Dissecting PrPC function is further complicated by the occurrence in mammals of two potentially partially redundant homologues Doppel and Shadoo The biological overlaps between members of the prion protein family are still under investigation and much debated Similarly although in vitro analyses have suggested various functions for PrPC notably in cell death and survival processes some have yielded conflicting results and or discrepancies with in vivo studies This Research Topic brings together the accumulated knowledge regarding the biological roles of the prion protein family from the animal to the molecular scale **Yearbook of**

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