


LAB 04 – Diffusion and Osmosis

Objectives:

- Describe the physical mechanisms of diffusion and osmosis.
- Understand the relationship between surface area and rate of diffusion.
- Describe how molar concentration affects the process of diffusion.
- Predict cell outcomes when changing the concentration of solute in a solution in which the cell is suspended.
- Determine the molar concentration of sucrose in a plant cell.



Do not just copy these down for the abstract! These are the learning objectives, not the objectives of the actual experiment!

Introduction:

Many aspects of the life of a cell depend on the fact that atoms and molecules are constantly in motion (the concept of kinetic energy). This kinetic energy results in molecules bumping into and rebounding off each other and moving in new directions. One result of this molecular motion is the process of diffusion.

Cells must move materials through membranes and throughout cytoplasm in order to maintain homeostasis. The movement is regulated because cellular membranes, including the plasma and organelle membranes, are selectively permeable. Membranes are phospholipid bilayers containing embedded proteins. The phospholipid fatty acids limit the movement of water because of their hydrophobic characteristics.

The cellular environment is aqueous, meaning that the solvent is water, in which the solutes, such as salts and organic molecules, are dissolved. Water may pass freely through the membrane by osmosis or through specialized protein channels called aquaporins. Most ions move through protein channels, while larger molecules, such as carbohydrates, are carried by transport proteins.

The simplest form of movement is diffusion, in which solutes move from an area of high concentration to an area of low concentration; diffusion is directly related to molecular kinetic energy. Diffusion does not require energy input. The movement of a solute from an area of low concentration to an area of high concentration requires energy input in the form of ATP and protein carriers called pumps.

Water moves through membranes by diffusion; this process is called osmosis. Like solutes, water moves down its concentration gradient. Water moves from areas of high potential (high water concentration) and low solute concentration to areas of low potential (low water concentration) and high solute concentration. In walled cells, osmosis is affected not only by the solute concentration but also by the resistance to water movement in the cell by the cell wall. This resistance is called turgor pressure (the physical pressure exerted on the cell).

The terms *hypertonic*, *hypotonic*, and *isotonic* are used to describe solutions separated by selectively permeable membranes.

- A hypertonic solution has a higher solute concentration and a lower water potential as compared to the other solution; therefore, water will move into the hypertonic solution through the membrane.
- A hypotonic solution has a lower solute concentration and a higher water potential than the solution on the other side of the membrane; water will move down its concentration gradient into the other solution.
- Isotonic solutions have equal water potential.

Diffusion Osmosis Lab Manual

Karen Timberlake



Diffusion Osmosis Lab Manual:

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what is a job offer letter immigration refugees and citizenship canada - Jul 14 2023

web a job offer letter is a document that a canadian employer gives you as a temporary worker it explains the details of your job generally a job offer letter or employment letter is less detailed than a contract the letter includes information about your pay and deductions from your pay your job duties

employment reference letter for canada pr elaar - Jul 02 2022

web sep 4 2020 the candidate must submit a letter to immigration refugee and citizenship canada ircc when the candidate is applying for canada pr the applicant must give a letter from the organization with all the specific information this letter is called an employment reference letter

employment letter sample for immigration canada a - Dec 27 2021

web jun 23 2023 the best structure for employment letter sample for immigration canada when it comes to immigration to canada having a job offer from a canadian employer can greatly increase your chances of being accepted if you re in this position you ll need an employment letter as part of your application

sample of a job offer canada immigration forum - Jun 01 2022

web nov 18 2020 u can see the sample of job offer letter in the previous post by me in this thread below i am writing the sample of letter of employment this is to confirm that mr has been working full time with company name since dd mm yy until present if u r currently working on this job as an

employment reference letters for canada immigration arrive - Mar 30 2022

web feb 16 2022 employment reference letter format for canadian immigration tip you will need work reference letters from all the past and current employers you mention in your express entry profile make sure there are no discrepancies in the details listed in your employment reference letters and what you include in your immigration application

applications for permanent residence programs subject to canada - Feb 26 2022

web jun 29 2021 a letter from the employer s offering the job in canada is required and it must be printed on company

letterhead and include the applicant's name, the company's contact information (address, telephone number, and email address) and the name, title, and signature of the applicant's proposed immediate supervisor or personnel officer and

what makes a job offer valid under express entry - Jan 28 2022

web generally a valid offer is for a job that is full time and non seasonal lasts for at least 1 year is in a skilled job listed as TEER category 0, 1, 2 or 3 in the 2021 national occupational classification a job offer must be in writing and must set out details of the job they are offering you such as your pay and deductions

need a sample of job offer letter Canada Immigration Forum - Sep 04 2022

web Jul 8 2020 1 dear all i need help can anybody send me a job offer letter sample please thanks a lot bcguy champion member Jul 26 2008 2 041 43 Vancouver British Columbia category job offer pre assessed landed 16 03 1976 Feb 25 2009 2 this is a really pathetic request but here goes dear applicant

offer of employment skilled immigrants express entry Canada - Aug 15 2023

web set out details of the job they're offering you such as your pay and deductions your duties the conditions of employment like your hours of work a work permit on its own is not a job offer even if it is an open work permit your job offer must also meet other criteria to be valid under the express entry program you qualify for below

sample of a job offer Canada Immigration Forum - Feb 09 2023

web Aug 13 2018 this is a sample of the offer letter my company offered me just today as context i am a work permit currently working for the same employer that brought me to Toronto 2 years already working in the position stated in the work permit

hire permanent workers how to make a job offer Canada.ca - Jun 13 2023

web hire permanent workers how to make a job offer if you're a Canadian employer who can't find Canadians or permanent residents to fill job vacancies you can hire express entry candidates to meet your labour needs to do this you must make a immigrate through the Atlantic Immigration Program get a job offer - Apr 30 2022

web Nov 15 2022 on November 16 2022 we switched to the 2021 version of the national occupational classification (NOC) use the NOC 2016 page if you applied for a job offer on or before November 15 2022 you'll need to seek job opportunities with designated employers for more information check the provincial websites

offer of employment to a foreign national Atlantic Immigration - May 12 2023

web offer of employment to a foreign national Atlantic Immigration pilot get help to open an application form or to fill one out in the help centre use this form to make an eligible job offer once the form is completed provide a copy of the job offer to your candidate

sample job offer format Canada Immigration Forum - Oct 05 2022

web apr 3 2023 job title xxx salary xxx term of employment permanent full time xx hours a day xxx hours per week benefits medical dental job duties listed same list as the verification letter for canadian experience

canada job offer letter key global immigration - Aug 03 2022

web canada job offer letter for foreigners key global immigration offer services in securing job offer for canada immigration from dubai uae middle east and other locations contact us now

submit an offer of employment for yourself canada ca - Apr 11 2023

web submit an offer of employment for yourself using the employer portal use the employer portal to submit your offer of employment pay the employer compliance fee before you get started read these guides the enrolment guide to learn how to sign up the user guide to help you complete your offer

canadian employer job offer required by ircc and esdc - Mar 10 2023

web dec 17 2021 canadian employers are required by ircc and esdc to prepare a formal employment contract or a job offer letter for future employees which must include job title for the position being offered job description including main

the letter of offer from the employer canada immigration - Dec 07 2022

web may 16 2021 the letter of offer from the employer purpose for confirming an applicant s qualifying offer of arranged employment for validating that the applicant meets the program requirements and for appropriate screening to address concerns of fraud