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Bio181L-W1230

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## Cell Membrane Structure and Permeability Lab Report

### Introduction

In this Lab the students will be performing 4 different experiments all looking at the "movement of materials across [cell membranes](#)" (Boyles, 2017, para 1). There are so many different processes that involve the movement of materials through a cell membrane that will be included in all of the experiments the students will be doing in this lab. When looking at materials being able to cross over a cell membrane there are a lot of factors that are involved and help in this process. Permeability plays a big part in this lab. Permeability is the process when the cell membrane allows liquids or gases to pass through it. One of the things that will help in this process is diffusion which "results in the net movement of a substance from a region where it is more concentrated to a region where it is less concentrated" (Reece, 2016, pg 2866). Another thing that is very important when it comes to this process is osmosis which is defined as the "diffusion of free water across a selectively permeable membrane" (Reece, 2016, pg 2923). Osmosis is one of the main things that has to do with the permeability of a cell membrane. And it also has to do with the tonicity of a structure. Tonicity according to the Campbell Biology book is defined as the ability of a solution surrounding a cell to cause that cell to gain or lose water. Tonicity can be broken down further into three different categories. If there is a lot of a substance going into the cell it is considered hypotonic, if there is a lot of substance going out of the cell it is considered hypertonic, and if it has the same amount going in and out it is isotonic this is

# Membrane Permeability Lab Report

**Patrick Vollmar**



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