## Science 9 Research Template

Source #1			
Title of source:	Author: Marius Wernig et Publisher: technology		
Replacement neurons: a simple genetic surprising flexibility of adult cells	al.	review	
Date of publication: May-June 2010	Date accessed (by you): 11 April 2019		
URL: gale Group.com/apps/doc/A226474538?GPS=43riss&x	id=77849c18		
Copy and paste relevant information directly from source:	Make "raw" notes (a summary) Scientist have found a		
"By making a few simple genetic tweaks, scientist can transform mouse skin cells directly into brain cells without first returning them to their embryonic state required by previous methods." "The researcher could someday offer bad effective way to replace damaged neurons." " the researchers are trying to repeat the process with human cells."	way to turn skin cells (from mice) into functioning brain cells. This could one day be a good way to replace damaged brain cells. without the risk of immunity rejection since they would be taking the cells from the individual that would be receiving them back (majority of the time. Though there is the possibility that people will donate stem cells) this could be used in adults with fully developed brains, since they would be taking tissue cells that would remove the challenge of having to take cells from the brain.		

Source #2			
Title of source:	Author: J.T	Publisher: science in context	
New sources and uses for stem cells			
Date of publication: December 2 2000	Date accessed (by you): April 11 2019		
URL:			
http://go.galegroup.com/ps/retrieve.do?tabID=T003&r	esultListType=RESULT_	_LIST&searchResultsType=SingleTab&se	
archType=BasicSearchForm&currentPosition=3&docId=	GALE%7CA68273699&	docType=Brief+article&sort=Relevance	
&contentSegment=ZXAS-			
MOD1&prodId=GPS&contentSet=GALE%7CA68273699&searchId=R3&userGroupName=43riss&inPS=true			
Copy and paste relevant information directly from	Make "raw" notes ( a summary): scientist from Montreal		
<b>source:</b> "— human skin and scalp tissue may provide a	discovered that it is possible to turn skin, scalp tissue and		
source of neural stem cells."	bone-marrow into neural stem cells. Previously scientist		
"Scientist once thought that neural stem cells existed	only knew of neural	stem cells in young brains, but new	
only in young developing brains, but compelling	studies show that th	ere are actually stem cells in adult	
evidence has emerged that adult brains also harbor	brains, just not in as	large amounts. This could help people	
such cells. Researchers even have found that human	with a wide variety o	of brain cell damage, using other places	
bone-marrow cells can give rise to neurons. (S.N	to gather these cells	throughout the body.	
9/2/00)"	-		
Physicians could use a person's own tissue to grow			
replacement cells, which patients immune system			
would tolerate instead of rejecting."			
"— cells could replace neurons killed by disease."			

Source #3		
Title of source: ted-ed "what are stem cells?"	Author: Craig A. Kohn	Publisher: Ted
Date of publication: 10 September 2013	Date accessed (by you): Wednesday February 7	

Copy and paste relevant information directly from	Make "raw" notes ( a summary):	
source:	There are 3 main types of stem cells, they can become	
"As we go through our lives each of us will have very	anything in in your body.	
different needs for our own health care."	Tissue-specific stem cells	
	<ul> <li>Muscle</li> </ul>	
"One way they are doing this [personalizing healthcare] is	<ul> <li>Skin</li> </ul>	
by researching stem cells."	<ul> <li>Liver</li> </ul>	
	<ul> <li>Nerve</li> </ul>	
	<ul> <li>Blood</li> </ul>	
	Replace the tissues in your body	
	when they die.	
	Embryonic stem cells	
	<ul> <li>Created from left over stem cells donated</li> </ul>	
	embryos, from fertility clinics.	
	<ul> <li>These cells are pluripotent</li> </ul>	
	• Which means they can be grown to	
	become any sort of tissue in the	
	body.	
	Pluripotent stem cells	
	<ul> <li>Skin, fat, liver or other cells,</li> <li>That accentist have shareed to</li> </ul>	
	• That scientist have changed to	
	<ul><li>behave as embryonic stem cells.</li><li>They can become any sort of cell.</li></ul>	
	<ul> <li>What are stem cells</li> </ul>	
	<ul> <li>They Are a cell that naturally grows in the</li> </ul>	
	human body,	
	They do not have a specific job or	
	function	
	Their for they can become all	
	other cells	
	• Your body uses stem cells to replace cells that	
	are no longer helpful to the human body.	
	<u>Types of stem cells</u>	
	Tissue-specific stem cells	
	Embryonic stem cells	
	Pluripotent stem cells	

Source #4			
Title of source: "Dead brain cells get smart"	Author: Nicole dyer	Publisher: science world	
Date of publication: January 22 2001	Date accessed (by you): febuary 7 2019		
http://go.galegroup.com/ps/retrieve.do?tabID=T003&res archType=BasicSearchForm&currentPosition=1&docId=G. &contentSegment=ZXAS- MOD1&prodId=GPS&contentSet=GALE%7CA69698654&s	ALE%7CA69698654&docT	ype=Brief+article&sort=Relevance	
<b>Copy and paste relevant information directly from</b> <b>source:</b> "fresh cells from human cadaver brains, stewed	<ul> <li>Make "raw" notes ( a summary):</li> <li>The scientist took dead brain cells (from fresh cadavers) and turned them into living bran cells. Which can help</li> </ul>		

them together in a lab dish, then grew them into brain	people with problems caused by damaged or missing brain
cells — "	cells. Scientist think that this may be a method to
"The newest and most promising hope to repair brain	transplant cells to people who need them, and one day this
damage comes from dead brains!"	could possibly be a method to help people who have dead
"The experiment marks a major medical	brain cells. Since they can "re animate" dead brain cells.
breakthrough— normally the brain doesn't replenish	
neurons that die."	

Source #5				
Title of source:		Author: Joycelyne Bloch Publisher: Ted		
The Brian my be able to repair itself – with	help			
Date of publication: December 2015		Date accessed (by you): April 12 2019		
URL: https://m.youtube.com/watch?v=6d6	oq0zGGmw			
Copy and paste relevant information direct source: "— we want to grow cells from these pieces swollen brain tissue ] it's not an easy task." "This [ doublecortin – positive cell cultures ] the same as a stem cell culture with large g surrounding small, immature cells."	tly from s of tissue [ l looks exactly	the adult brain. They are a of the brain and they migh brain, with the help of scie the cells the cells they disc closely stem cell cultures.	hat the brain contains cells <i>ve cells</i> they make up 4% of huge part in the development t be able to help repair the ntist. When scientist examen overed that the cells resemble Since they looked so similar he same way that stem cells	