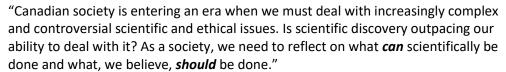
Genomics and Genetic Processes Presentations





Dr. Martin Godbout, President of Genome Canada (1999-2009)

Hence the importance of all Canadians to become well informed on such technologies before we make key decisions that will affect our future. Your task is to conduct a presentation (or product) to your classmates that will help them understand one of the areas of Genomics (the study of an organism's entire DNA sequence) or Genetic Processes.

n a gro	oup of two you'll be asked to choose one of the fo	llov	ving topics:				
Barc	ode of Life Data Systems		Epigenetics Contribution to Mental Illness and				
Cana	adian Autism Genome Project		Drug Addiction				
Cance	er Stem Cells		Cloning				
Dire	ct to Consumer Genetic Testing (e.g. decode,		In vitro fertilization				
23an	dME and Navigenics)		DNA data banking (biobanking)				
Pharr	macogenomics (Personalized Medicine)		Stem Cell Therapy				
The G	Genographic Project		Transgenic Crops				
Human Genome Project			Nutrigenomics				
Biofuels			Genetic Testing				
Enviropig™			Tracking Ebola Outbreak + Vaccination Creation				
De-extinction of the Tasmanian Tiger			Gene Therapy				
De-e	extinction of the Wolly Mammoth		Bioremediation (e.g. Acinetobacter calcoaceticus				
GM	Mosquitos to Control Dengue Fever (The		RAG-1)				
"Wip	eout" Gene)		DNA Fingerprinting				
Viru	s Therapy for Cancer		Controlling the Spruce Budworm using Viruses				
Pharr	ming		CRISPR – Genome Editing				
Forensic Sketches from DNA			Topic of your choice, with teacher approval				
Duagan	ntation						
	resentation should consider the following:		there are the control of the control				
An overview of the topic (what is it, how long has it been going on, where is it at now, past and							
	projected timelines, if possible).						
	The science behind the topic						
_	☐ What are the benefits and controversies? Or negative or positive impacts?						
	, , , ,						
	Maximum number of slides is 15 (not including bibliography)						
	☐ Visuals are easily visible by everyone in the class						
☐ Be mindful of your particular audience (i.e. your peers)							
☐ Loud, clear voice with eye contact to the audience							

☐ Be no more than 8 minutes.

☐ Bibliography with at least 3 sources.

SBI 3U Genetics Presentation - Rubric

Name(s):	oic:
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PowerPoint and Summary Sheet

CRITERIA	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
General Information (20%) - Detailed and accurate summary of the disorder	Limited understanding of the material.	Average understanding of the material.	Considerable understanding of the disease.	Thorough understanding of the material.
Genetic Basis (25%) - Detailed examination of the underlying genetics	Explains the genetics with limited effectiveness	Explains the genetics with some effectiveness	Explains the genetics with considerable effectiveness	Explains the genetics with superior effectiveness
PowerPoint I (15%) - Readability (level of clutter)	Cluttered and confusing; difficult to follow	Somewhat cluttered; readability reduced	No clutter; easily readable	Professional arrangement; Clear and engaging
PowerPoint II (15%) - Design (overall look and feel; clickiness)	Random appearance for each slide; high clickiness	Minimal effort for design; moderate to high clickiness	Adequate effort in design; little to no clickiness	Expert design; presentation advances fluidly
PowerPoint III (15%) - Use of Media (videos and pictures)	Slideshow uses no, or irrelevant, media	Uses some media; relevance is clear	Uses media well to convey meaning	Media is expertly used; engaging with good variety
Handout (10%) - Appearance and ability to convey information	Little to no material provided; no engagement	Some information present; some engagement	All information present; engaging	Extra information provided to increase engagement

<u>Presentation</u> (NB: these marks are based on the entire group; it is only as strong as the weakest link!)

CRITERIA	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	
Vocal Quality (30%) - Clarity and use of pitch and tone	Student's voice is garbled; uses monotone voice	Voice is clear (but low); may alter pitch and tone	Voice is clear and loud; alters pitch and tone	Voice is compelling and engaging	
Presence I – Eye Contact (20%) - Audience contact	Student always faces screen or notes	Usually faces screen or notes	Usually faces audience	Always faces audience; engages with them	
Presence II – Posture (20%) - Audience perception	Slouching; appears sullen and disinterested	Somewhat slouchy; appears somewhat interested	Acceptable posture; appears interested	Commanding posture; fully engaged with material	
Vocabulary (15%) - Level of vocabulary and enouncement	Student used little or no vocab; poor enouncement	Vocab was appropriate; enouncement low	Vocab was good; enouncement satisfactory	Vocab is rich and used without error	
Delivery (15%) - Speed and confidence in material	Student delivered material rapidly; low confidence	Delivered material quickly; some confidence	Delivered at a reasonable pace with confidence	Delivery was expertly paced with full confidence	

Overall Levels:

PowerPoint and Summary		Presentation		Overall	
(60%)	+	(40%)	=	Level:	

Notes: