Bio 12 **rDNA Biotechnology Assignment (25pt)** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_

Chose an example of the use of rDNA Biotechnology used in food, medicine, agriculture, industry or environment.

1. Name the biotechnology.
2. Describe the technique.
3. Why is it done? (Feed the masses, medical treatment to save lives, improve quality of life.)
4. What organisms are used?
5. Are there different techniques?
6. When was this technique first developed? List the scientist or team and country of origin.
7. What hurtles had to be overcome? (feasibility in technique, ethics, rejection from scientific community/public, financial)
8. How successful is this technique? Describe several success stories as well as failures.
9. When was it first implemented for human consumption/sale/tested on humans in clinical trial?
10. Name some pros and cons of this technology.
    1. How is it useful?
    2. Who benefits? (patients, pharmaceutical companies, GE seed producer).
    3. What are some current known risks?
    4. Describe ethical concerns about this technology
11. What are some factors that limit this technology?
12. What are the Canadian and U.S. governmental positions on this technology?
13. Cite your work.

In your own words, no cut and paste plagiarism.

Power Point, Poster, Brochure, Comic strip, skit, song, etc.

Present to class 7-10min.

<http://www.iptv.org/EXPLOREMORE/ge/uses/index.cfm>

Presentation Rubric

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| --- | --- | --- | --- | --- |
|  | 4 | 3 | 2 | 1 |
| Required Elements | More information/content was included than was required | All information/content was included than was required | Most information/content was included than was required | Some information/content was included than was required |
| Accuracy Comprehension | Students able to accurately answer almost all questions posed by classmates about the topic | Students able to accurately answer most questions posed by classmates about the topic | Students able to accurately answer some questions posed by classmates about the topic | Students unable to accurately answer questions posed by classmates about the topic |
| Clarity and Relevance | Graphics are clear and relevant, making content easier to understand | Almost all graphics are clear and relevant, making content easier to understand | Some graphics are clear and relevant, making content easier to understand | Few graphics are clear and relevant, or they do not make the content easier to understand |
| Visual Presentation | Presentation is exceptionally attractive in terms of layout, neatness and overall presentation | Presentation is attractive in terms of layout, neatness and overall presentation | Presentation is acceptably attractive in terms of layout, neatness and overall presentation | Presentation lacks attractiveness in terms of layout, neatness and overall presentation |
| Oral Presentation | Speaks clearly and with confidence, maintains eye contact during entire presentation. Very well prepared. | Speaks clearly and with confidence, maintains eye contact during most of presentation. Prepared. | Speaks fairly clearly, with some confidence, maintaining eye contact through some of the presentation. Could have used more time to present. | Lacking in clarity when speaking, lacking eye contact and/or confidence. Not prepared to adequately present. |

Presenters: ­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Topic: ­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Two things you learned from this presentation: