

## Biology Genetics Research Paper Format

LRC information link: <http://www.rdhslibrary.org/project-guides>

What you will have to include:

1. Title page, include the Running head
2. NO ABSTRACT IS NECESSARY FOR THIS PAPER. Go directly to your introduction.
3. Body of paper (see outline below): use section headings as needed
4. References: citations and references must follow all APA guidelines. Yours will be formatted most easily if you use the complete Microsoft Word Reference program as shown in class. If you do not have access to that program you will be expected to do it by hand. A minimized or alternative style is not acceptable

Your paper should include the following.

1. **Introduction:** State what you plan to accomplish in this paper.
  - Brief explanation of what the condition is
  - chromosome and gene affected
  - How common is this condition
  - how the individual and his family are affected
  - What is the life expectancy
  - What types of treatments you will discuss
  - types of resources you used
  - *None of this introduction should be detailed. Just give an overview of what you are going to discuss.*
2. Give the **signs and symptoms** of the condition: \*
  - Age when the symptoms start to show\*
  - Detail the symptoms\*
  - What medical tests are done to confirm the diagnosis\*
3. **Genetics** of the condition
  - HOW IS IT INHERITED: **in addition to** your on-line sources, use your textbook to give a detailed summary of the type of inheritance\*\*\* (**recessive, dominant, codominant, sex-linked, etc.**)
  - What chromosome and gene is affected
    - If it is a trisomy or a monosomy, explain about nondisjunction IN DETAIL
    - Give the scientific name of the affected gene\*
      - Name the protein that the gene codes for and **explain the defect\***
      - How does the defective protein cause the symptoms the person has\*
4. What are the **medical treatments** and therapies available for this condition\*
  - Are the treatments easily available or very costly?
5. How does this condition affect the **daily lives** of the patient and family? \*
  - Special school?
  - Special equipment?
  - Special care-givers?
  - Community Resources available for individual and care-givers?
6. Photographs,\* pedigrees, Punnett squares, Karyotypes AS APPROPRIATE
7. APA Reference Page
  - Minimum of 3 references
  - Your textbook must be one of the three
  - The other 2 must come from the sources provided in the LRC Project Guide
  - Specific authors must be listed for all references,
  - **If** you have some references that do not list a specific author, the teacher has to approve them.
  - You must include a CITATION for every bit of information with a red asterisk above.
  - All citations must be included in your referenced page

**DO NOT put any of your information into direct quotations. Use your own words and credit your sources with citations.**

**\* This information requires at least one reference citation.**