

PULSE EXPERIENTIAL TEAM ASSIGNMENT

Team #: 26

1. Title of your PULSE experiential assignment.

Provide a creative and informative title.

A Neoplasia Field Trip

2. Please summarize your PULSE experiential assignment (max 300 words).

Provide a non-technical (lay) summary of your PULSE assignment. Prompts to think about: What is the topic? What is the format? Why did you choose this topic and format? The summary for lay audience is a brief and accessible summary of the assignment that is used to explain complex ideas, technical writing and scientific terms to people who do not have prior knowledge of the subject (e.g., high school science level). This summary should include the importance, impact, and content of your assignment to a broader audience.

[[Team 23](#) is an example of an informative lay summary.]

For our PULSE experiential assignment, we developed a comic-style educational resource that teaches basic neoplasia concepts through an interactive and engaging learning method. Our team selected this format because we wanted to create an interactive experience that would help students remember information better than traditional text-based study methods. We aimed to create a resource that students would consider enjoyable to read while it presented essential information about the main concepts.

Neoplasia describes the growth of abnormal cells, which develop when cells lose their ability to react to normal bodily signals that control their growth and death. The process needs research because it establishes the basic principles that lead to tumor development and cancer.

The comic shows three Pathology 3500 students who are studying for an exam while they encounter various tumor growth types. The students acquire the ability to differentiate between benign neoplasms, which do not cause cancer, and malignant neoplasms, which result in cancer, through their investigation of neoplasm characteristics, which include their growth patterns and spreading abilities. This format

helps us express our ideas in a cohesive form and adapt them for students not versed in pathology to comprehend complex concepts.

We also included a brief summary of some common treatment approaches and touched on new research in cancer detection and management to show how these concepts apply in real-world settings. Overall, this project demonstrates that creative methods make difficult scientific concepts easier to understand while maintaining essential knowledge for effective learning.

3. Provide up to 6 keywords relevant to your PULSE experiential assignment.

3-6 keywords are ideal.

- Neoplasia
- Benign and Malignant Tumors
- Tumor Growth and Metastasis
- Cellular Proliferation
- Teratoma
- Cancer Diagnosis and Treatment

4. Identify the course topic with which your PULSE assignment most aligns.

Refer to the various topics outlined under 'Course content and Schedule' in the syllabus (e.g. Inflammation).

Neoplasia, as our assignment focuses on tumor development, classification, and the differences between benign and malignant growths.

5. What are the learning outcomes?

There should be a minimum of 2 learning outcomes for your assignments. For further information on learning outcomes, the Centre for Teaching and Learning offers information: <https://teaching.uwo.ca/curriculum/coursedesign/learning-outcomes.html>

By the end of this comic-based learning resource, students will be able to:

1. Define key neoplasia terms (benign tumors, malignant tumors, metastasis) using appropriate examples
2. Differentiate between benign and malignant neoplasms based on growth patterns, behavior, and methods of spread

3. Understand tumor development and progression through straightforward clinical examples
4. Identify standard treatment methods used in the management of neoplastic diseases

6. Why did the team select the chosen topic and the medium? How will the topic and medium of choice help learners?

Our team chose to explore the topic of neoplasia because of its relevance in pathology and due to the number of common misconceptions that all neoplastic growths are cancerous. We created this project because we found the class material to be enjoyable and wanted to develop a tool that would help other students learn in the same way. We demonstrated this by showing the different characteristics that exist between neoplasm types through our analysis of clinical cases, which would help students understand the material better.

We selected a comic book format to present our material because it creates an entertaining and accessible experience for our audience. The visual breakdowns of complex concepts presented through this format of a comic book enable students to understand the material better. The design presents information through a story, which helps readers stay engaged while they learn and also remember the material better.

The combination of this topic with a creative medium provides a solution to make difficult material accessible to students who lack advanced knowledge of pathology. Additionally, the method will boost student engagement while helping learners to comprehend and remember essential concepts, which develops their fundamental knowledge of neoplasia.

7. Did the team use an artificial intelligence (AI) technology tool? If so, which AI technology tool(s) did the team use? What other technology tools did the team use? Is the technology tool novel? Is the team using this technology tool in a novel fashion? If the team did not use technology tool, why did the team decide against using the technology tool(s)?

Please include details (e.g., for what purpose was the tool used for? Why was the tool the best tool to use for your assignment? Are there alternative tools that were considered?)

Our team used a combination of digital and AI-based tools to develop our assignment. Pixton was our main platform for creating the comic panels, where we designed the characters, captions, speech bubbles, and basic backgrounds. The core features of Pixton, which allow users to create comics through a free version of the platform, served as our main reason for selecting it as our creation tool. Through visual storytelling, our

system allowed us to organize our ideas according to the presentation method we had chosen.

We used AI tools, including ChatGPT 5.3 and Gemini 3, to help generate background images and enhance the visuals of our panels. We used ChatGPT as our main image creation tool, while Gemini served as our backup choice to get different images and to help us when our first results failed to meet our needs. The tools enabled us to build more intricate scenes because they eliminated the design limitations that Pixton had set on our project work.

We used Simplebooklet.com as a tool to consolidate our panels into a digital comic-book-type publication so that learners can get a more realistic and interactive reading experience.

While none of the individual tools are novel on their own, we used them in a complementary and creative way. By combining multiple platforms, we achieved our goal of creating a product that combined visual appeal with educational content. Our team also looked into other tools like Canva, but we found that this combination worked best for creating a comic-style resource that was both easy to use and effective for learning.

8. How is your PULSE experiential assignment innovative and/or novel?

Describe what about the PULSE assignment is innovative/novel. Is there a particular component or content that is innovative/novel? How is it different from other content that already exists?

Our PULSE assignment uses a comic-style narrative to present neoplasia, which represents an innovative approach to the traditional format. The readers of this material learn through a story that presents characters moving through different body parts while they discover various types of tumor development. The system enables users to understand complex processes through an interface that presents information in an understandable and visually appealing manner.

The project contains a unique aspect because the scientific material is embedded directly into its narrative design. The character interactions of the story introduce the audience to the basic medical understanding of benign and malignant tumors, together with specific case studies of melanocytic nevi and carcinoma. The content delivery system presents essential course material in a way that becomes less intimidating because it delivers information in a more natural format.

We also included treatment approaches, such as surgery, chemotherapy, and radiation, as part of the narrative. The method demonstrates treatment operations through its results because it provides details about treatment methods that function in actual medical situations.

Our assignment stands out from available resources because it achieves precise accuracy together with interactive content. The learning materials of our program use visual elements and storytelling methods to teach understanding instead of direct memorization methods. The content presentation aims to deliver neoplasia information in a more understandable format, which helps students remember the material better during their first encounter with it.

9. If you used an AI tool, please copy and paste the prompt(s)/question(s) used along with the output(s)/answer(s) from the AI tool.

The response here is to allow others to replicate the team's work. If the prompts/outputs are lengthy (over 1 page), please attach it as a separate document and note below [Please see attached document].

Please see the attached document.

10. If you did not use an AI tool, please attach a copy of the team's notes to the assignment.

The response here is to allow others to observe the 'behind the scenes' team's work.

Please see the attached document.

11. How did the team ensure the veracity of the information presented in the PULSE assignment?

The response should highlight how the team has ensured that the information presented in the assignment is evidence-based and not spreading misinformation. You should specifically mention which databases (if any) or textbook materials you used, and how you kept track of the sources/references for each claim. If AI provided you with false information, please describe how the team has fact-checked the AI response and the legitimate (scientific) sources you used. A reference document should be provided in the reference section (15. References) below. Please ensure to include in-text citations in your assignment where applicable.

Our team established information accuracy through their use of trustworthy evidence-based sources, which they verified by comparing essential concepts across different sources. The content of our assignment was supported through our research, which included both peer-reviewed articles and established medical websites.

Our primary sources included databases and organizations such as the following:

- Science Director - <https://www.sciencedirect.com/>
- National Cancer Institute - <https://www.cancer.gov/>
- Cleveland Clinic - <https://my.clevelandclinic.org/>

These sources were chosen because they provide up-to-date and reliable information on cancer neoplasia, tumor classification, growth, and therapeutics.

To ensure consistency, we compared information across multiple sources rather than relying on a single reference, and we kept track of sources for all key claims. Although we used AI tools such as ChatGPT and Gemini for visual support and minor content assistance, we reviewed and confirmed all generated information against primary sources before including it in our work.

The approach, more importantly, left us with results that allow us to maintain accuracy while ensuring the content shares equal clarity on an equally good degree of reliability and trustworthiness.

12. Write a meaningful team reflection about the PULSE session (max 250 words).

Prompts to help your team write the reflection: Were there any team/individual biases that surfaced when creating content for the assignment? Did the team implement any practices to ensure the content was equitable, diverse, and/or inclusive? How has the PULSE assignment helped with the team's learning? If the team had to estimate, how long did the assignment take? What worked well for your team? What would the team do differently next time? What were the opportunities and challenges with creating the PULSE assignment to help others' learning? Were there any barriers or limitations?

Our team worked together to create the final product by using the suggestions of all team members while keeping their work responsibilities equal. We assigned tasks to team members according to their strengths because this approach would guarantee that each person completed their work duties between regular work hours. The team made sure to present information throughout the project by using simple language, which would help all types of learners understand the main concepts.

This assignment allowed us to explore neoplasia in greater depth, particularly in areas such as treatment options and emerging research, which we may not have fully engaged with otherwise. The development of a comic-style educational resource required us to learn new skills because none of us had previous experience with this type of educational content development.

The assignment took approximately two months to complete, not including the time spent on initial research. The project benefited from our team's ability to maintain constant communication, which resulted in meeting all project deadlines.

The project did not present us with major difficulties, but we encountered some technical restrictions during the process of making comic visuals. We succeeded in reaching our desired outcome through the use of extra tools, which we employed to solve our problem. The assignment provided us with a valuable chance to learn through creative methods while we studied advanced pathology concepts.

13. Write the contributions of individual team members using unique initials.

Example: All team members contributed to the design of the prompts used in the technology tool, ChatGPT (GPT-3.5). T.K and T.K2 fact checked the information presented by ChatGPT using published literature on PubMed (PMID 29211319, 32477271). Y.Z finalized and formatted the final infographic and compiled the prompts and outputs. P.E was involved in...

HK completed the initial topic submission that was due on December 5. All team members contributed to researching background information for the assignment. RC compiled the research to produce an engaging storyline, and created the finalized script of the comic book. AS was responsible for creating the comic panels using Pixton, along with AI tools such as ChatGPT (GPT 5.3) and Gemini (Gemini 3), and for compiling them into the final book format using simplebooklet. HK was responsible for completing and reviewing the written document submission, ensuring that it aligned with the rubric and that all required questions were clearly addressed.

15. References

Please provide a numbered reference list with the Nature citation style. [Please feel free to use citation management software (i.e., free citation manager, e.g., Zotero and Mendeley).

1. Carcinoma: Types, Treatment & What it Is [Internet]. [cited 2026 Apr 10]. Available from: <https://my.clevelandclinic.org/health/diseases/23180-carcinoma>
2. Common antidepressants could help the immune system fight cancer, UCLA study finds | UCLA [Internet]. [cited 2026 Apr 10]. Available from: <https://newsroom.ucla.edu/stories/antidepressants-could-help-immune-system-fight-cancer-ucla-study-finds>
3. Cleveland Clinic [Internet]. [cited 2026 Apr 10]. Leukemia: Symptoms, Signs, Causes, Types & Treatment. Available from: <https://my.clevelandclinic.org/health/diseases/4365-leukemia>
4. Lymphoma: Symptoms, Causes and Treatment [Internet]. [cited 2026 Apr 10]. Available from: <https://my.clevelandclinic.org/health/diseases/22225-lymphoma>
5. Melanoma: Symptoms, Staging & Treatment [Internet]. [cited 2026 Apr 10]. Available from: <https://my.clevelandclinic.org/health/diseases/14391-melanoma>

6. Neoplastic Cell - an overview | ScienceDirect Topics [Internet]. [cited 2026 Apr 10]. Available from: <https://www.sciencedirect.com/topics/engineering/neoplastic-cell>
7. New NIH-Funded Johns Hopkins Medicine Study Finds High-Risk Individuals Who Have Mild Dilatation of the Pancreatic Duct Have Increased Risk for Pancreatic Cancer [Internet]. [cited 2026 Apr 10]. Available from: <https://www.hopkinsmedicine.org/news/newsroom/news-releases/2025/11/new-nih-funded-johns-hopkins-medicine-study-finds-high-risk-individuals-who-have-mild-dilatation-of-the-pancreatic-duct-have-increased-risk-for-pancreatic-cancer>
8. Sarcoma: What it Is, Symptoms & Treatment [Internet]. [cited 2026 Apr 10]. Available from: <https://my.clevelandclinic.org/health/diseases/17934-sarcoma>
9. Osmosis [Internet]. [cited 2026 Apr 10]. Teratoma: What Is It, Signs, Symptoms, and More. Available from: <https://www.osmosis.org/answers/teratoma>
10. Williams A. The Significance, Methodologies of Tumor Pathology and its Role to Fight Against Cancer Pathogens. J Med Surg Pathol. 2024 Mar 26;9(1):1–2. doi:10.35248/2472-4971.24.9.292
11. Types of Cancer Treatment - NCI [cgvMiniLanding] [Internet]. 2017 [cited 2026 Apr 10]. Located at: [nciglobal,ncienterprise.](https://www.cancer.gov/about-cancer/treatment/types) Available from: <https://www.cancer.gov/about-cancer/treatment/types>
12. Durning MV, RN. WebMD [Internet]. [cited 2026 Apr 10]. What Is a Teratoma? Available from: <https://www.webmd.com/a-to-z-guides/what-is-teratoma>
13. What Is Cancer? - NCI [cgvArticle] [Internet]. 2007 [cited 2026 Apr 10]. Located at: [nciglobal,ncienterprise.](https://www.cancer.gov/about-cancer/understanding/what-is-cancer) Available from: <https://www.cancer.gov/about-cancer/understanding/what-is-cancer>
14. Staff DF. What Makes Cancer Cells Different from Normal Cells? Dana-Farber Cancer Institute [Internet]. 2016 Mar 2 [cited 2026 Apr 10]. Available from: <https://blog.dana-farber.org/insight/2016/03/what-makes-cancer-cells-different-from-normal-cells/>

16. Annotated Bibliography

An annotated bibliography is a list of sources (books, articles, websites, etc.) that you used for your project. Each entry has two parts:

1. *Citation – written in the required citation style (same formatting and order as the Nature citation style in your list of references).*
2. *Annotation – a short paragraph that summarizes, evaluates, and explains how the source is useful for your assignment.*

Write the annotation (about 150–200 words each)

- *Summary: Briefly describe the main argument or purpose of the source.*
- *Evaluation: Comment on the credibility, strengths, or weaknesses of the source.*
- *Relevance: Explain how you will use this source in your assignment.*

1. Carcinoma: Types, Treatment & What it Is [Internet]. [cited 2026 Apr 10]. Available from: <https://my.clevelandclinic.org/health/diseases/23180-carcinoma>

The source provides a comprehensive overview of carcinoma because it defines the condition and describes its typical forms and available treatments. Carcinomas develop from epithelial cells, which the article demonstrates through its description of key subtypes like adenocarcinoma and squamous cell carcinoma and their associated treatments, which include surgery, chemotherapy, and radiation. The article presents medical information through easy-to-understand language while ensuring that the content remains accurate.

The Cleveland Clinic functions as an academic medical center, which maintains its credibility through professional medical reviews of its content. The system serves general users without providing detailed molecular information yet effectively establishes basic knowledge.

This source was used in our group's assignment for malignant tumours to explain terminal carcinoma types and introduce treatment approaches in straightforward accents.

2. Common antidepressants could help the immune system fight cancer, UCLA study finds | UCLA [Internet]. [cited 2026 Apr 10]. Available from: <https://newsroom.ucla.edu/stories/antidepressants-could-help-immune-system-fight-cancer-ucla-study-finds>

This source presents recent findings from UCLA research, which shows that SSRIs, which doctors commonly prescribe as antidepressants, also function as cancer treatment by boosting immune system strength. The study found that these drugs can improve T cell function and suppress tumor growth in both human and animal models. Overall, the research highlights new scientific findings with the potential to influence future approaches to cancer treatment and expand the role of existing medications in oncology.

The source presents credible information through its university-based research report, which demonstrates current scientific progress. The study presents early research findings through its summary, which lacks complete experimental information, thus requiring readers to treat the conclusions with extreme caution.

This source was used in our assignment to highlight emerging research at the end of our comic, linking what we learned in class to current and future developments in oncology.

3. Cleveland Clinic [Internet]. [cited 2026 Apr 10]. Leukemia: Symptoms, Signs, Causes, Types & Treatment. Available from: <https://my.clevelandclinic.org/health/diseases/4365-leukemia>

The source presents a complete overview of leukemia, which includes its symptoms, causes, major types of disease, and available treatment methods. The development of leukemia occurs through the formation of irregular white blood cells, which begin in the bone marrow, and the article describes its main types, which include acute and chronic leukemia. The article explains common treatment methods, which include chemotherapy and targeted therapies, through an organized presentation that makes the information easy to understand.

The Cleveland Clinic serves as a trustworthy academic medical center because its content receives evaluation from medical experts. The document serves its purpose for general readers but fails to provide complete molecular details, which would enable advanced comprehension of the disease.

The malignant tumor section of our assignment used this source to demonstrate blood-based cancer research while explaining various cancer types and their corresponding treatments.

4. Lymphoma: Symptoms, Causes and Treatment [Internet]. [cited 2026 Apr 10]. Available from: <https://my.clevelandclinic.org/health/diseases/22225-lymphoma>

The source delivers a comprehensive overview of lymphoma, which includes information about its causes, symptoms, major types, and treatment methods. The explanation describes how lymphoma develops from the presence of abnormal lymphocytes that exist in the lymphatic system, and it identifies Hodgkin lymphoma and non-Hodgkin lymphoma as the main lymphoma types. The article presents treatment methods, which include chemotherapy and radiation therapy and targeted therapies, while maintaining a format that users can easily understand.

The Cleveland Clinic serves as a trustworthy source of medical information because it operates as an esteemed academic medical institution that conducts medical reviews of its content. The text provides general information about lymphoma while maintaining its main purpose of teaching basic concepts.

This source has been referenced in the malignant neoplasm portion of the assignment to combine another example of cancer that affects the immune system, explaining the association of various cancer types and clinical procedures by the writer.

5. Melanoma: Symptoms, Staging & Treatment [Internet]. [cited 2026 Apr 10]. Available from: <https://my.clevelandclinic.org/health/diseases/14391-melanoma>

The source explains melanoma through its symptoms and staging system, and available treatment methods. The research shows that melanoma originates from melanocytes and develops into a fast-growing cancer that spreads throughout the body when doctors do not find it in its early stages. The article presents common treatment methods, which include

surgery, immunotherapy, and targeted therapy, by using a straightforward format that makes the information easy to understand.

The Cleveland Clinic functions as an established academic medical center that provides medically reviewed content that serves as a trustworthy source. The article succeeds in teaching general readers about melanoma and its clinical importance because it uses accessible language without explaining specific molecular processes.

The source provided information that helped our assignment research because it showed the differences between benign melanocytic nevi and malignant melanoma, which created a better understanding of the benign tumor section.

6. Neoplastic Cell - an overview | ScienceDirect Topics [Internet]. [cited 2026 Apr 10]. Available from: <https://www.sciencedirect.com/topics/engineering/neoplastic-cell>

The source delivers a comprehensive overview of melanoma, which includes information about its symptoms, staging process, and available treatment methods. The document describes melanoma development from melanocytes while showing how the disease can spread quickly when it remains undetected during its initial stages. The article presents surgical methods together with immunotherapy and targeted therapy as essential treatment options while organizing the content in a user-friendly manner.

The Cleveland Clinic functions as an academic medical center that provides reliable information through its medically verified content. The article establishes basic knowledge about melanoma and its clinical importance because it presents information to general readers without using technical details about molecular processes.

This source served as initial research material, which helped our project distinguish between benign melanocytic nevi and malignant melanoma through its research. The research results provided a better understanding of the benign tumor section, which needed clearer explanations.

7. New NIH-Funded Johns Hopkins Medicine Study Finds High-Risk Individuals Who Have Mild Dilatation of the Pancreatic Duct Have Increased Risk for Pancreatic Cancer [Internet]. [cited 2026 Apr 10]. Available from: <https://www.hopkinsmedicine.org/news/newsroom/news-releases/2025/11/new-nih-funded-johns-hopkins-medicine-study-finds-high-risk-individuals-who-have-mild-dilatation-of-the-pancreatic-duct-have-increased-risk-for-pancreatic-cancer>

The source shows that recent research studies the connection between pancreatic duct mild dilation and pancreatic cancer development risk. The study suggests that individuals with a duct diameter greater than a certain threshold may have a higher likelihood of early cancer or precancerous changes. The study aims to present new findings that will enhance methods for detecting cancer in its early stages and assessing cancer risk.

This source establishes its credibility through its Johns Hopkins Medicine report, which functions as a leading institution for academic research. The document does not present

complete research methods because it summarizes current scientific work, which remains active.

This source was used in our assignment to introduce emerging research at the end of our comic, helping connect foundational concepts of neoplasia to real-world advancements in cancer detection.

8. Sarcoma: What it Is, Symptoms & Treatment [Internet]. [cited 2026 Apr 10]. Available from: <https://my.clevelandclinic.org/health/diseases/17934-sarcoma>

The source provides an overview of sarcoma, which includes its definition, together with its symptoms and its different types and treatment methods. The article describes how sarcomas originate from connective tissue, which includes bone, muscle, and fat components, but points out their lower occurrence rate compared to other cancer types. The article presents standard medical treatments, which consist of surgical procedures, chemotherapy, and radiation therapy, while it delivers the information in a way that people can understand.

The Cleveland Clinic functions as a reliable medical resource through its academic medical center, which distributes medically verified materials. The article presents essential information about sarcomas and their clinical significance because it provides basic knowledge to general readers without requiring technical details of molecular processes.

The malignant tumor section of our assignment used this source to present an extra cancer example, which helped explain various tumor origins and their respective treatment methods.

9. Osmosis [Internet]. [cited 2026 Apr 10]. Teratoma: What Is It, Signs, Symptoms, and More. Available from: <https://www.osmosis.org/answers/teratoma>

The source presents a comprehensive overview of teratomas, which includes information about their origins, their anatomical structure, their clinical symptoms, and their various classification systems. The document explains the process through which pluripotent germ cells develop teratomas, which create tumors that show multiple tissue types with hair, bone, and muscle. The article establishes a distinction between mature and immature teratomas by showing their differences in tumor development and their risk of developing cancer.

Osmosis is a dependable educational platform that medical students utilize to learn content created by its developers, who strive to simplify complex medical subjects while maintaining precise information. The source serves as an effective tool for developing fundamental knowledge about teratomas despite its status as a secondary research source, which lacks complete citation details.

The source was utilized in our assignment to demonstrate that teratomas represent a distinct category of neoplasms which developed from their specific tumor characteristics and their particular structural features.

10. Williams A. The Significance, Methodologies of Tumor Pathology and its Role to Fight Against Cancer Pathogens. J Med Surg Pathol. 2024 Mar 26;9(1):1–2. doi:10.35248/2472-4971.24.9.292

This article explains how tumor pathology contributes to cancer research by providing insights into cancer development and progression, as well as treatment methods. The research demonstrates that tumor tissue examination enables clinicians to identify cancer types while assessing disease progression and making treatment choices. The article demonstrates how current research studies work to enhance diagnosis procedures and develop new cancer treatment methods.

The source serves as a peer-reviewed journal article that delivers academic content that surpasses the information found on ordinary medical websites. The study provides a general overview of its subject matter because of its short duration, which prevents detailed examination and specific case study analysis. The study maintains its usefulness because it helps researchers understand how pathology research impacts cancer studies.

Our assignment used this source as the primary research because it showed how neoplasia research and its medical uses brought important value to scientific research.

11. Types of Cancer Treatment - NCI [cgvMiniLanding] [Internet]. 2017 [cited 2026 Apr 10]. Located at: [nciglobal,ncienterprise.](https://www.cancer.gov/about-cancer/treatment/types) Available from: <https://www.cancer.gov/about-cancer/treatment/types>

The source presents an overview of cancer treatment methods, including surgery, chemotherapy, radiation therapy, immunotherapy, and targeted therapy. The system describes cancer treatment methods by showing their operational functions and their specific usage situations; thus, it demonstrates how cancer treatment occurs in medical facilities. The source provides trustworthy treatment information that the general public can easily access.

The National Cancer Institute is a government organization in the United States, making it a highly credible and authoritative source. The organization maintains its evidence-based information through continuous updates, which guarantee its accuracy. The material serves basic educational purposes because it presents information to a wide audience while omitting specific scientific details.

We used this source in our assignment to explain common cancer treatments and illustrate their roles in the management of neoplasia.

12. Durning MV, RN. WebMD [Internet]. [cited 2026 Apr 10]. What Is a Teratoma? Available from: <https://www.webmd.com/a-to-z-guides/what-is-teratoma>

The article describes teratomas by defining them, outlining their different types, causes, symptoms, and treatment options. The explanation shows that teratomas develop from germ cells, which create tumors that contain various tissue types, including hair, bone, and muscle. The article distinguishes between mature and immature teratomas by showing their different potential for cancer development and their normal body locations.

WebMD serves as a popular medical information platform, which this article uses as its source because it has undergone medical review. The document presents information about teratomas through basic language that readers from all backgrounds can understand, yet it does not include scientific details.

The assignment required us to explain teratomas, and this source provided evidence that helped us establish their distinct classification and special characteristics when compared to other neoplasms.

13. What Is Cancer? - NCI [cgvArticle] [Internet]. 2007 [cited 2026 Apr 10]. Located at: [nciglobal,ncienterprise.](https://www.cancer.gov/about-cancer/understanding/what-is-cancer) Available from: <https://www.cancer.gov/about-cancer/understanding/what-is-cancer>

The source delivers an extensive analysis of cancer, including its definition, progression, and essential characteristics. The text describes cancer development as a process where normal cell functions break down, which leads to uncontrolled cell growth that allows cells to spread into surrounding tissues and metastasize to distant body sites. The study shows that cancer cells exist as separate entities from normal cells because they possess the ability to bypass regulatory systems, and they maintain the capability to hide from immune system detection.

The National Cancer Institute functions as a government entity that establishes itself as a trustworthy source of information. The organization maintains evidence-based content, which receives periodic updates throughout its operational existence. The article presents fundamental concepts of cancer biology to a general audience by omitting details about molecular mechanisms.

In our work, this source was employed to validate the core definitions of cancer and to illustrate the basic differences between normal cells and cancer cells.

14. Staff DF. What Makes Cancer Cells Different from Normal Cells? Dana-Farber Cancer Institute [Internet]. 2016 Mar 2 [cited 2026 Apr 10]. Available from: <https://blog.dana-farber.org/insight/2016/03/what-makes-cancer-cells-different-from-normal-cells/>

The source explains the main biological differences that separate cancer cells from normal cells by showing how genetic mutations cause uncontrolled cell growth that leads to tumor formation. The article presents the “hallmarks of cancer” concept, which describes the abilities of cancer cells to maintain growth while avoiding cell death, developing new blood vessels, and spreading to distant body parts. The article shows how cancer cells use specific genetic changes to develop protection against the immune system because they can spread and survive through those particular alterations.

The Dana-Farber Cancer Institute performs as a prominent cancer research and treatment institution, thus rendering the source credible and reliable. The article presents its information for a general audience but lacks specific experimental data, yet it successfully presents key cancer biology concepts.

The source was used in our assignment to support explanations distinguishing between cancer cells and normal cells and to strengthen baseline principles of neoplasia.