

The National Coordinating Center for the Regional Genetics Networks

Glossary of Cancer Genetics Terms

English – Polish

2023 Edition

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In collaboration with:
The Cross Cultural Health Care
Program (CCHCP)

Glossary of Cancer Genetics Terms - Polish

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Acknowledgments

Mission of the NCC

The National Coordinating Center for the Regional Genetics Networks (NCC) has been funded by the Health Resources and Services Administration (HRSA) since 2004. Our mission is to improve access to genetics for underserved populations. This mission is accomplished through different programs, many of which are educational tools and resources for non-genetics professionals. Learn more at https://nccrcg.org.

NCC Funding Acknowledgment

This project is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) under Cooperative Agreement #UH9MC30770 from 6/2020-5/2024 for \$800,000 per award year. This information or content and conclusions are those of the author and should not be construed as the official position or policy of, nor should any endorsements be inferred by HRSA, HHS or the U.S. Government.

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Cindy Roat is an international consultant in language access in health care and patient navigation. She provides training and consulting for health care interpreters, providers, administrators, and patient navigators. Cindy compiled and edited this glossary for the NCC.

The Cross Cultural Health Care Program

The mission of The Cross Cultural Health Care Program (CCHCP) is to serve as a bridge between communities and health care institutions to advance access to quality health care that is culturally and linguistically appropriate. CCHCP provides resources, such as bilingual medical glossaries, as well as medical interpreter, patient navigator, and cultural competence training for individuals and institutions with the goal of systems change. Learn more at: https://xculture.org

CCHCP is supporting and coordinating the translation process of this glossary and is providing the glossary free of charge in its online store: https://xculture.org/store/

Table of Contents

Preface	
How to Use the Glossary	
Glossary of Terms	
Examples of Genes That are Often Checked in Genetic Testing	19
Family Relationships	20
Common Interpreting Errors	25
Analogies	26
Index	27



Preface

The seven Regional Genetics Networks (RGNs), the National Genetics Education and Family Support Center (Family Center), and the National Coordinating Center for the Regional Genetics Networks (NCC) mission is to improve access to quality genetic services for medically underserved populations. This bilingual glossary of terms related to cancer genetics is provided to help enable access to cancer genetics medical services to limited English proficiency populations.

How to Use the Glossary

This glossary is organized alphabetically in English. The first column shows the term in English. The second column has the definition of the term in English. The third column has the translation of the term.

At the end of the translations of the cancer genetics terms is a page with Examples of Genes That are Often Checked in Genetic Testing, and a glossary of translations for Family Relationships Terms. It is very important for genetic counselors to know if a relative is a blood relative or a relative by marriage. There is also a page on Common Interpreting Errors, and a page on Analogies. Genetic counselors often use analogies to explain complex ideas in genetics.

Glossary of Cancer Genetics Terms - Polish

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Glossary of Terms

English – Polish

(n) – noun (v) – verb (adj) – adjective (adv) – adverb

Term	Definition	Translation
Abnormal (adj)	Different from what is considered normal, average or expected; e.g., a gene sequence that is different than that found in most people.	Nieprawidłowy
Benign (adj)	Something mild that does not threaten health or life. In cancer genetics, "benign" means "not cancerous."	Łagodny
Blood test (n)	A test in which blood is drawn (usually from the patient's arm) and sent to a laboratory for analysis. In cancer genetics, blood tests provide cells for genetic sequencing.	Badanie krwi
Breast cancer (n)	Cancer of the breast tissue. This cancer is more common in women, but it can affect men as well.	Rak piersi
Buccal swab (n)	Away to collect DNA from the cells on the inside of a person's cheek.	Wymaz z policzka
CA-125 blood test (n)	A blood test used to look for early signs of ovarian cancer in women with a high cancer risk.	Badanie krwi CA-125
Carrier (n)	A person who carries a genetic mutation in one of the two copies of a particular gene, regardless of whether they get cancer or not.	Nosiciel
Cell (n)	A small (microscopic) structure that forms the basic building block of every known living organism.	Komórka
Chromosome (n)	Thread-like structures located inside the nucleus of cells. In humans, there are 23 pairs of chromosomes, for a total of 46 chromosomes. Each chromosome is made of proteins and a single molecule of DNA, which carries genetic information.	Chromosom
Colonoscopy (n)	A diagnostic test in which a flexible tube with a tiny camera on the end is inserted into the colon (large intestine) through the rectum in order to see the condition of the inside of the colon, or to take a small sample of tissue, or to cut out polyps (small growths).	Kolonoskopia
Condition (e.g., "genetic condition") (n)	A chronic (long-term) health issue.	Schorzenie, choroba
Consanguinity (n)	When parents are blood relatives to each other.	Pokrewieństwo

Term	Definition	Translation
DCIS (ductal carcinoma in situ) (n)	A pre-cancerous growth in the breast, which is still within the milk ducts but has the potential of growing and spreading to other parts of the breast tissue. Sometimes called Stage 0 breast cancer.	DCIS (rak nieinwazyjny przewodowy sutka
DTC (direct-to-consumer genetic testing) (n)	Genetic testing that is marketed directly to people at home through the internet or the TV etc. instead of through a medical provider.	DTC (testy genetyczne kierowane wprost do konsumenta
Deleterious mutation/ Disease-causing mutation (n)	A change in a person's DNA that may cause a medical condition. In cancer genetics, having a disease-causing mutation may increase the chance of getting cancer but does not mean that a person will definitely get cancer.	Mutacja chorobotwórcza
DNA (deoxyribonucleic acid) (n)	The molecule that carries the genetic information of a cell. It provides the instructions used in the development, functioning and reproduction of the organism of which it is a part. The DNA is organized into chromosomes.	DNA (kwas deoksyrybonukleinowy)
DNA banking (n)	The secure, long-term storage of a person's genetic material. DNA banking allows families to have access to a deceased family member's DNA. When new genetic testing techniques are developed, doctors can test the banked DNA and use genetic information from the deceased person to tailor medical treatment for living descendants.	Bank DNA
DNA marker (also called a "genetic marker") (n)	A readily recognizable genetic trait, gene, or DNA segment.	Marker genetyczny
DNA mutation (n)	A change in the typical order of the chemicals that make up the DNA. Mutations or variants are often compared to misspelled words because chemicals that make up the DNA sequence are not in the expected order.	Mutacja genowa
DNA sequence (n)	The exact order of the chemicals that make up a DNA molecule.	Sekwencja nukleotydów
DNA sequencing (n)	The laboratory technique used to determine the exact order of the chemicals that make up a DNA molecule. This is one type of genetic testing.	Sekwencjonowanie DNA

Term	Definition	Translation
Dominant (adj)	A genetic trait in which one copy of the gene is sufficient for a trait to be expressed; dominant traits can be inherited from a single parent.	Dominujący
	In cancer genetics, dominant inheritance refers to conditions in which having only one altered copy of a particular gene pair is sufficient to cause an increased risk for cancer.	
Duplication (n)	A duplication occurs when part of a chromosome is copied abnormally, resulting in extra genetic material.	Duplikacja
Early age of onset (n)	Cancer diagnosed at an early age, usually before the age of 50.	Wczesne pojawienie się choroby
Egg (n)	The reproductive cells of a woman. When fertilized by sperm, the egg will grow into a baby.	Komórka jajowa
Environmental causes or factors (n)	Causes of illness that come from a person's surroundings, not from their genetic make-up. Environmental causes of illness include infection, trauma, diet, exposure to toxins, etc. Some environmental causes of illness can be avoided or changed, while genetic causes cannot.	Czynniki środowiskowe
Familial (adj)	Belonging to a family; e.g., a familial trait is a trait that is shared among family members and may be due to genetic or environmental factors or both.	Rodzinny
Family history (n)	The medical history of the members of a family.	Wywiad rodzinny
Flip a coin (v)	A random decision-making tool used in the U.S. While a coin is flipped into the air and caught, a person predicts whether it will fall with the "heads" side up or the "tails" side up. If the coin falls as predicted, the person "wins." This expression is often used as a metaphor for any outcome that is random and has two possible outcomes, and to describe a situation in which each outcome is as likely as the other.	Rzucić monetą
Fragment (n)	A small piece; an incomplete part of a whole.	Fragment
Gene (n)	A specific sequence of DNA that determines specific traits in an individual.	Gen

Term	Definition	Translation
Gene copy (n)	In human cells, DNA is arranged in 23 pairs of chromosomes, for a total of 46 chromosomes. These chromosomes contain all the genes that make up the DNA. One chromosome of each pair is inherited from each parent. As such, individuals have two copies of every gene, one inherited from the mother and one inherited from the father.	Kopia genu
Normal gene copy (n)	A normal copy of a gene is one that is found most frequently in the population. Also called the "working copy."	Normalna kopia genu
Altered gene copy (n)	An altered copy of a gene is one that differs from the working copy and is considered to be "abnormal." Also called the "non-working copy."	Zmutowana kopia genu
Gene deletion (n)	Having a piece of genetic information missing from a gene.	Delecja
General population (n)	"Most people."	Ogół społeczeństwa
	For example, if you have the same risk of getting cancer as the general population, that means that you have the same chance of getting cancer as everyone else. This is in contrast to a "high risk population" who has a greater chance of getting cancer than everyone else.	
Generation (n)	The people who constitute a single step in a line of descent from an ancestor; a group of people born and living more or less at the same time. Example: You, your brothers and sisters, all your spouses and your cousins are in the same generation. Your parents, your aunts and uncles and all their spouses form a previous generation. Your grandparents, their siblings and spouses from an even earlier generation. Your children and nieces and nephews form a later generation.	Pokolenie
Genetic (adj)	Having to do with inherited traits.	Genetyczny
Genetic counseling (n)	A discussion with a genetic counselor about the basic concepts of genetics, genetic conditions, the chances of being affected by a genetic condition or having a child with a genetic condition, and genetic testing and treatment.	Porada genetyczna

Term	Definition	Translation
Genetic counseling intern (n)	A genetic counseling student who has not yet completed his/her academic studies and is now practicing under the supervision of a more experienced counselor in preparation for providing genetic counseling services independently after obtaining his/her graduate degree.	Stażysta doradztwa genetycznego
Genetic counselor (n)	A healthcare professional with a specialized graduate degree who works with people undergoing genetic testing. Genetic counselors provide information about genetic conditions, help patients understand their chances of being affected by a genetic condition or having a child with a genetic condition, and help them make informed decisions about testing and treatment. Genetic counselors also provide emotional support to patients and families.	Doradca genetyczny
Genetic discrimination (n)	The act of refusing to provide, or charging more for, insurance or any service based on an individual's genetic make-up.	Dyskryminacja na podstawie cech genetycznych
Genetic factors (n)	Specific aspects of a person's genetic make-up that influence that person's health and development.	Czynniki genetyczne
Genetic information (n)	The information encoded in genes, which tells every cell in a body how to grow, what to do and how to reproduce.	Informacja genetyczna
Genetic material (n)	All the parts of a cell that carry genetic information. Genetic material could include genes, parts of genes, a group of genes, a DNA molecule, a fragment of DNA, a group of DNA molecules, or the entire set of genetic instructions.	Materiał genetyczny
Genetic predisposition (n)	An increased chance of a person developing a certain trait or disease based on that person's particular genetic makeup.	Predyspozycja genetyczna
Genetic test (n)	A laboratory test designed to determine if a person has a gene mutation or a typical DNA sequence.	Badanie genetyczne
Single gene test (n)	Single gene test: analysis of one particular gene.	Analiza jednego genu
Gene panel test (n)	Gene panel test: analysis of several genes that have been shown to be associated with a particular condition; Example: breast cancer gene panel.	Panel badań genetycznych

Term	Definition	Translation
Genetic trait (n)	A characteristic within a family that is passed down from parent to child genetically.	Cecha genetyczna
Geneticist (n)	A doctor or scientist who studies genetics.	Genetyk
Germline testing (n)	Germline testing refers to the analysis of a person's DNA, which he or she inherited from his or her parents. In biology and genetics, the germline is the group of cells that will pass on the genetic material to children, in other words, the cells from which the eggs and sperm come. After the egg and sperm come together to form a baby, these cells will then divide and multiply and will form the entire body. Germline testing is different from testing the DNA of someone's tumor, which may have a mutation that happened during the person's lifetime and was not inherited from his or her parents.	Badanie linii zarodkowych
Hereditary (adj)	Passed down from parent to child.	Dziedziczny
Hereditary material (n)	Genetic material that is passed down from parent to child.	Materiał dziedziczny
Informed consent (n)	The process of agreeing to a procedure or course of treatment after understanding what the procedure/treatment entails, the potential risks and benefits associated with it, and the other options available.	Świadoma zgoda
Inheritance pattern (n)	The manner in which a particular genetic trait or disorder is passed from a parent to a child, e.g., autosomal dominant or recessive, X-linked dominant or recessive, or multifactorial.	Sposób dziedziczenia
Inherited (adj)	Passed down from parent to child.	Odziedziczony
Lynch syndrome (n)	An inherited genetic disorder that increases a person's risk of getting cancer of the colon, rectum, uterus, ovaries, and other cancers.	Zespół Lyncha

Term	Definition	Translation
Malignant (adj)	In cancer, this term means that the cancer cells or tumor are harmful and have the potential of spreading to other tissues or parts of the body.	Złośliwy
Metastasis (n)	The spreading of cancer from one organ to another.	Przerzut
Molecule (n)	The smallest unit of a chemical compound that still has the properties of that compound. For example, a molecule of water is made up of two hydrogen atoms and one oxygen atom. Separately, they are just atoms, but when bonded together, they make a water molecule.	Cząsteczka
Multifactorial (adj)	Due to a combination of genetic and non-genetic (environmental, hormonal, etc.) risk factors that act together to determine risk.	Cząsteczka
Mutation (n)	A change in a gene, which can be deleterious (disease causing) or benign (non-disease-causing). In Spanish, the word is sometimes confused with "mutilation."	Mutacja
Oncologist (n)	A physician who specializes in diagnosing and treating cancer.	Onkolog
Oophorectomy	The surgical removal of one or both ovaries.	Owariektomia
Ovarian cancer (n)	Cancer of the ovaries, the organs in a woman that release eggs.	Rak jajnika
Packets of genetic information (n)	A phrase genetic counselors use to describe genes or chromosomes.	Komplet informacji genetycznej
Pattern (n)	A repeating arrangement or sequence; for example, the pattern of cancers in a family.	Wzór
Pedigree (n)	A family tree that can be used to trace the inheritance of specific genetic traits.	Rodowód
Penetrance (n)	The probability that a specific genetic trait will be expressed if a person carries a mutation. "Complete penetrance" means that everyone who carries a particular gene mutation will show the trait related to that altered gene. "Incomplete penetrance" means that only some of the people who have the altered gene will actually show the related trait.	Penetracja
Predisposition to cancer	Having a change in one of number of specific genes (a genetic mutation) that creates a higher than normal risk of a person developing cancer.	Predyspozycja do raka

Term	Definition	Translation
Prognosis (n)	The most likely outcome of a disease process.	Prognoza
Proliferation (cell proliferation) (n)	The controlled process by which a cell multiplies. Cancer arises when the process of cell division becomes uncontrolled.	Proliferacja (proliferacja komórek)
Prophylactic mastectomy (n)	A mastectomy is the surgical removal of the breast. "Prophylactic" means something done to prevent disease. A prophylactic mastectomy is the surgical removal of a healthy breast to prevent breast cancer. Prophylactic mastectomy is an option for individuals with a very high breast cancer risk, for example, women with a BRCA mutation.	Mastektomia profilaktyczna
Protein (n)	A molecule made up of chains of amino acids. Proteins do most of the work in cells and are required for the structure, function, and regulation of the body's tissues and organs. Genes determine how specific amino acids are put together to form a specific protein.	Białko, proteina
Random (adj)	Happening in an unpredictable way.	Losowy
Recessive (adj)	A genetic trait in which both copies of a gene are needed for the trait to be expressed; recessive traits are inherited from both parents, each one contributing one copy of the gene in question. In cancer genetics, recessive inheritance refers to conditions in which both copies of a particular gene pair need to be altered to develop the disease.	Recesywny
Recurrence (n)	When something happens again. In cancer, a return of the disease after treatment and after a period of time during which the cancer cannot be detected.	Nawrót
Red flag (n)	A warning sign or a clue.	Znak ostrzegawczy

Term	Definition	Translation
Risk (n)	The chance that something will happen; in the case of cancer genetics, the chance of getting cancer.	Ryzyko
At risk (adj)	Has some possibility of getting cancer.	Istniejące ryzyko
At average risk (adj)	Has the same possibility of getting cancer as the general population.	Przeciętne ryzyko
At high risk (adj)	Has a greater possibility of having a genetic condition than the general population.	Zwiększone ryzyko
At higher risk than "X" (adj)	Has a greater possibility of getting cancer than the general population. Has a greater possibility of getting cancer than "X."	Ryzyko wyższe niż "X"
Risk factor (n)	A circumstance that increases the risk of getting cancer.	Czynnik ryzyka
Runs in the family (e.g., cancer runs in the family) (v)	Is passed down from parents to children to grandchildren.	Jest cechą rodzinną
Saliva (spit) test (n)	A genetic test done by collecting saliva (spit) instead of blood.	Próbka śliny
Screen (v)	To test a person for a particular common health problem, even though the person has no symptoms to suggest that they have the problem.	Wykonać badania przesiewowe
Screening test (n)	A test that looks for a common health problem even though the patient has no symptoms to suggest they have the particular disease.	Badanie przesiewowe
Sperm (n)	The reproductive cells of the man. When sperm fertilize a woman's egg, a baby develops.	Plemniki
Sporadic (adj)	Random, once in a while.	Sporadyczny
	In genetics, sporadic cancers are those caused by random chance or unknown factors in the environment.	
Statistically significant (adj)	Not caused by chance.	Statystycznie istotny

Term	Definition	Translation
Syndrome (n)	A group of symptoms or features that consistently occur together or a condition characterized by a set of associated features. For example, a hereditary cancer syndrome refers to risk for a group of cancers all caused by a particular gene mutation. BRCA1 mutations increase risk for breast and ovarian cancers. This is called Hereditary Breast and Ovarian Cancer Syndrome. See also, Lynch Syndrome.	Zespół

Term	Definition	Translation
Test result (n)		Wynik badania
Negative (adj)	A negative result on a genetic test means that the laboratory did not find the specific genetic change that the test was designed to identify.	Ujemny
True negative (n)	When a patient is being tested to see if he or she has a specific genetic change that is present in other family members, a negative result can be considered a "true negative." This means that instead of having an increased risk for cancer like other family members, they have the same risk as everyone else in the general population.	Prawdziwie ujemny
Uninformative negative (n)	Sometimes a family has a strong history of a particular cancer, but no genetic change related to that cancer has been found in that family. An "uninformative negative" result means that a specific test was negative but is not conclusive because the "family" mutation has not been identified, and/or there may be changes that the test could not detect in the gene being analyzed, or in other genes that were not tested.	Nieinformacyjnie negatywny
Positive (adj)	A positive result on a genetic test means that the laboratory did find a specific genetic change that is associated with a hereditary cancer syndrome (a deleterious mutation). In cancer genetics, that means that the patient has an increased risk of getting the cancer(s) associated with the gene.	Dodatni
Variant of uncertain significance (n)	If the laboratory finds a genetic change for which currently there is not enough information to know if this change is problematic or not, it reports a "variant of uncertain significance." Basically, this means that the laboratory found a genetic change, but they don't know what it means. All of these variants will eventually be reclassified as either a "positive" or "negative" result. Most become "negative" and are thought to represent natural variation between individuals.	Wariant o nieznanej patogenności
Polymorphism (n)	Everyone has some degree of commonly occurring genetic changes that are not associated with cancer. If the test finds this sort of change, it reports a "polymorphism."	Polimorfizm
Trait (n)	A characteristic.	Cecha
Tumor (n)	An abnormal growth of cells; a tumor can be benign (not harmful) or malignant (harmful, cancer).	Guz

Term	Definition	Translation
Tumor testing (n)	An analysis of the DNA of someone's tumor. This analysis is meant to identify changes that a person might have acquired in his/her tumor cells that are not present in the rest of his/her body cells and were not inherited from his/her parents. This testing is often done to help make treatment decisions.	Test biomarkerów
Typo (n)	A mistyped word; shortened slang for "typographical error." In genetic counseling "a typo" is commonly used as an analogy to refer to mutations or variants in a gene.	Literówka
Ultrasound (n)	An imaging method that uses high frequency sound waves to create a picture of something inside the body.	USG
Variant (n)	A version of something that differs from the norm. So, a genetic variant is a change to the usual genetic sequence.	Wariant

Examples of Genes That are Often Checked in Genetic Testing

Term	Definition	Translation
BRCA 1	"The Breast Cancer Genes."	BRCA 1
BRCA 2		BRCA 2
	The tumor suppressor genes that in mutated form tend	
	to be associated with an increased risk of certain	
	cancers, especially breast and ovarian cancers.	
MLH1 MSH2 MSH6 PMS2	"The Colon Cancer Genes."	MLH1 MSH2 MSH6 PMS2
	These genes are involved in fixing mistakes that occur	
	when DNA replicates. An abnormality in one of these	
	genes can lead to Lynch Syndrome, a condition linked to	
	increased risk of cancer in the colon, rectum, uterus,	
	ovaries, as well as other organs.	
ATM	The ATM gene helps create a protein located in the cell	ATM
	nucleus that controls the rate at which cells grow and	
	divide. The ATM protein also helps cells recognize	
	damaged DNA strands.	
	A mutation in the ATM gene can lead to increased risks	
	for cancer or a condition called ataxia-telangiectasia a	
	degenerative neurological condition that causes severe	
	disability.	
PALB2	•	PALB2
	cancer and possibly other cancers.	
	•	

Family Relationships

For genetic counselors, it is very important to know if a relative is a blood relative or a relative by marriage.

Term	Definition	Translation
Parent	Your mother or father.	Rodzic
Mother	For genetic purposes, the woman whose egg was fertilized and grew to be you.	Matka
Mother-in-law	Your husband or wife's mother.	Teściowa
Stepmother	Your father's wife who is not your biological mother.	Macocha
Adoptive mother	A woman who is not your biological mother but who accepted legal responsibility for and raised you.	Matka adopcyjna
Godmother	A woman chosen by your parents to be your spiritual guide in life, named as such through a ceremony in the Catholic church.	Matka chrzestna
Father	For genetic purposes, the man whose sperm fertilized the egg that grew to be you.	Ojciec
Father-in-law	Your husband or wife's father.	Teść
Stepfather	Your mother's husband who is not your biological father.	Ojczym
Adoptive father	A man who is not your biological father but who accepted legal responsibility for and raised you.	Ojciec adopcyjny
Godfather	A man chosen by your parents to be your spiritual guide in life, named as such through a ceremony in the Catholic church.	Ojciec chrzestny
Aunt	Your mother or father's sister or sister-in-law.	Ciotka
Maternal aunt	Your mother's sister or sister-in-law.	Ciotka ze strony matki
Paternal aunt	Your father's sister or sister-in-law.	Ciotka ze strony ojca
Uncle	Your mother or father's brother or brother-in-law.	Wuj
Maternal uncle	Your mother's brother or brother-in-law.	Wuj ze strony matki
Paternal uncle	Your father's brother or brother-in-law.	Wuj ze strony ojca, stryj

Term	Definition	Translation	
Cousin	Usually understood to be a first cousin.	Kuzyn	
First cousin	Your aunt or uncle's child.	Kuzyn pierwszego stopnia	
First cousin once removed	Your aunt or uncle's grandchild or your first cousin's child	Dziecko kuzyna	
Second cousin	The children of first cousins are second cousins to each other.	Kuzyn drugiego stopnia	
Grandparent	Your parent's father or mother.	Dziadek/babcia	
Grandmother	Your mother or father's mother.	Babcia	
Maternal grandmother	Your mother's mother.	Babcia ze strony matki	
Paternal grandmother	Your father's mother.	Babcia ze strony ojca	
Grandfather	Your mother or father's father.	Dziadek	
Maternal grandfather	Your mother's father.	Dziadek ze strony matki	
Paternal grandfather	Your father's father.	Dziadek ze strony ojca	
Great aunt	Your mother or father's aunt.	Ciotka rodzica	
Maternal great aunt	Your mother's aunt.	Ciotka matki	
Paternal great aunt	Your father's aunt.	Ciotka ojca	
Great uncle	Your father or mother's uncle.	Wuj rodzica	
Maternal great uncle	Your mother's uncle.	Wuj matki	
Paternal great uncle	Your father's uncle.	Wuj ojca	
Great grandparents	The parents of any of your grandparents.	Pradziadkowie	
Great grandmother	The mother of any of your grandparents.	Prababcia	
Great grandfather	The father of any of your grandparents.	Pradziadek	

Term	Definition	Translation
Siblings	The children of your father and mother.	Rodzeństwo
Half siblings	Siblings (brothers and sisters) who have either the same mother and different fathers, or the same father but different mothers. Half siblings share some genetic similarity with you.	Rodzeństwo przyrodnie
Stepsiblings	The children of your stepmother but not your father; or the children of your stepfather but not your mother. Stepsiblings do not share any genetic similarity with you.	Rodzeństwo przybrane
Twins	Two siblings born at the same time.	Bliźnięta
Identical twins	Twins who developed from the same egg and sperm, meaning that they are genetically identical. Also called monozygotic twins.	Bliźnięta jednojajowe
Fraternal twins	Twins who developed from different eggs and sperm, meaning that they are genetically different and have the same number of shared genes as any other sibling. Also called dizygotic twins.	Bliźnięta dwujajowe
Triplets	Three siblings born at the same time.	Trojaczki
Sister	A sibling who is a girl.	Siostra
Sister-in-law	Your brother's wife or your husband's sister.	Bratowa/szwagierka
Half sister	A girl who is either the child of your father with a different mother, or the child of your mother with a different father.	Siostra przyrodnia
Stepsister	The daughter of your stepmother or stepfather and therefore not biologically related to you.	Siostra przybrana
Brother	A sibling who is a boy.	Brat
Brother-in-law	Your sister's husband or your wife's brother.	Szwagier
Half brother	A boy who is either the child of your father with a different mother, or the child of your mother with a different father. Brat przyrodn	
Stepbrother	The son of your stepmother or stepfather and therefore not biologically related to you.	Brat przybrany
Niece	Your sibling's daughter.	Siostrzenica/bratanica

Term	Definition	Translation
Nephew	Your sibling's son.	Siostrzeniec/bratanek
Spouse	Your husband or wife.	Małżonek
Wife	The woman to whom you are married.	Żona
Husband	The man to whom you are married.	Mąż
Children	Genetically speaking, the people who are produced from your egg or sperm.	Dzieci
Daughter	Your child who is a girl.	Córka
Daughter-in-law	Your son's wife.	Synowa
Stepdaughter	Your spouse's daughter who is not your biological child.	Pasierbica
Adoptive daughter	A girl for whom you have accepted legal responsibility and raised even though she is not your biological child.	Córka adoptowana
Goddaughter	A girl for whom you have accepted spiritual responsibility within a ceremony of the Catholic church; she may or may not be biologically related to you.	Chrześnica
Son	Your child who is a boy.	Syn
Son-in-law	Your daughter's husband.	Zięć
Stepson	Your spouse's son who is not your biological child.	Pasierb
Adoptive son	A boy for whom you have accepted legal responsibility and raised even though he is not your biological child.	Syn adoptowany
Godson	A boy for whom you have accepted spiritual responsibility within a ceremony of the Catholic church. He may or may not be biologically related to you.	Chrześniak
Ancestor	A person from whom you are descended, usually more remote than a grandparent.	Przodek

Term	Definition	Translation
Fiancé(e)	The person whom you have promised to marry.	
	Man: fiancé	Narzeczony
	Woman: fiancée	Narzeczona
Domestic partner	The person with whom you are living and have an intimate relationship, but to whom you are not married.	Konkubent/konkubina
Divorced	Having ended a marriage.	Rozwiedziony
Engaged	Having promised to marry someone.	Zaręczony
Widow	A woman whose husband has died.	Wdowa
Widower	A man whose wife has died.	Wdowiec
Relative	A person in your family.	Członekrodziny
Blood relation	A person who is related to you by blood not marriage, e.g., your sister, but not your sister-in-law; your mother but not your stepmother; your daughter but not your adopted daughter.	Krewny
Next of kin	Your closest living blood relation.	Najbliższykrewny

Common Interpreting Errors

Source speech	Interpreted as	More accurate rendition
"Cancer just happens by chance."	"Cancer happens suddenly." "Cancer happens because you are unlucky."	"Sometimes we don't know what causes cancer."
Cancer genes	Cancer cells	Genes that may cause cancer when altered (mutated).
"You are at higher risk for developing cancer."	Getting cancer	There is a greater possibility that you might get cancer.
"These genes protect us against cancer."	"They protect us, like the immune system They kill cancer cells"	"These genes help us to not get cancer."
Colonoscopy	Scan	Colonoscopy

Analogies

Genetic counselors often use analogies to explain complex ideas in genetics. An analogy explains a new concept by comparing it to something more common. A clue that an analogy is being used are the words "It's as if" and "It's like "

Examples:

"Genes are <u>like</u> an instruction book or an instruction manual. And in a book, there is a certain sequence to a story."

"It's as if you were reading through a long book and looking for one typo, for a letter that is mistaken."

"In the DNA there are molecule strings – <u>like</u> in this picture, each letter is a different molecule string."

"So a mutation is like a broken gene."

"So a mutation is like an unexpected change in the order of the letters."

"A gene is like a recipe, and mutations are like changes in that recipe."

"It's like chapters in a book, and like misspellings."

"Our cells are like libraries and our chromosomes are like books."

"Like a flip of a coin." (to explain that there is a 50% chance that a mutation will be passed on every time the patient has a child).

"Inside every cell are genes, which are <u>like</u> instruction books for our bodies; they tell our bodies how to grow and develop."

"It is kind of <u>like</u> if you a reading a book = and you notice that a word is spelled wrong; that is what this genetic test looks for."

Genetic counselors may mix the analogy in with more literal descriptions:

Example:

"We know that there are two in particular that when they don't work right, when there's a typo in the instruction manual, they can cause a high risk for breast and ovarian cancer."

Some analogies may not work with certain patients, due to linguistic or experiential differences.

Analogies that focus on genes as "letters in a book" may make no sense to speakers of character-based written languages such as Chinese, Japanese, and Korean.

"It's as if you were reading through a long book and looking for one typo, for a letter that is mistaken."

"So a mutation is <u>like</u> an unexpected change in the order of the letters."

"It's like chapters in a book, and like misspellings."

"It is kind of <u>like</u> if you a reading a book and you notice that a word is spelled wrong; that is what this genetic test looks for."

Analogies that focus on genes as a recipe may not work for patients who do not cook with written recipes.

"A gene is like a recipe, and mutations are like changes in that recipe."

Analogies that discuss random chance in terms of a coin toss may not work for patients from cultures where people don't flip coins to make decisions.

"Like a flip of a coin" (to explain that there is a 50% chance that a mutation will be passed on every time the patient has a child).

Index

Abnormal	7
Adoptive daughter	23
Adoptive father	20
Adoptive mother	20
Adoptive son	23
Altered gene copy	10
Ancestor	23
At average risk	15
At high risk	15
At higher risk than 'X'	15
At risk	15
ATM	19
Aunt	20
D.	
•	
Benign	7
Blood relation	24
Blood test	7
BRCA 1	19
BRCA 2	19
Breast cancer	7
Brother	22
Brother-in-law	22
Buccal swab	7
c	
CA-125 blood test	
Carrier	
Cell	
Children	
Chromosome	
Colonoscopy	
Condition (e.g. "genetic condition")	
Consanguinity	
Cousin	21
D	
Daughter	23
Daughter-in-law	23
DCIS (ductal carcinoma in situ)	8

Deleterious mutation	
Disease-causing mutation	8
Divorced	24
DNA	
DNA banking	8
DNA marker	
DNA sequence	8
DNA sequencing	
Domestic partner	24
Dominant	
DTC (direct-to-consumer genetic testing)	8
Duplication	
E	
Early age of onset	
, c	
Engaged	
Environmental causes or factors	
F	
Familial	C
Family history	
Father	
Father-in-law	
Fiancé(e)	
First cousin	
First cousin once removedFragment	
Fraternal twins	
Fraternal twins	22
G	
Gene	
Gene copy	10
Gene deletion	10
Generation	10
Genetic	10
Genetic counseling	10
Genetic counseling intern	11
Genetic counselor	11
Genetic discrimination	11
Genetic factors	11
Genetic information	
Genetic material	11
Genetic predisposition	
Goddaughter	

Godfather	20
Godmother	20
Godson	23
Grandfather	21
Grandmother	21
Grandparent	21
Great aunt	21
Great grandfather	21
Great grandmother	21
Great grandparents	21
Great uncle	21
н	
Half brother	22
Half siblings	22
Half sister	22
Hereditary material	12
Husband	23
ı	
Identical twins	22
Informed consent	12
Inheritance pattern	12
Inherited	12
L	
Lynch syndrome	12
м	
Malignant	13
Maternal aunt	20
Maternal grandfather	21
Maternal grandmother	21
Maternal great aunt	21
Maternal great uncle	21
Maternal uncle	20
Metastasis	13
MLH1	19
Molecule	13
Mother	20
Mother-in-law	20
MSH2	19
MSH6	19
Multifactorial	13
Mutation	13

N

Negative	17
Nephew	23
Next of kin	24
Niece	22
Normal gene copy	10
o	
Oncologist	13
Oophorectomy	13
Ovarian cancer	
P	
Packets of genetic information	13
PALB2	19
Parent	20
Paternal aunt	20
Paternal grandfather	21
Paternal grandmother	21
Paternal great aunt	21
Paternal great uncle	21
Paternal uncle	20
Pattern	13
Pedigree	
Penetrance	
PMS2	19
Polymorphism	
Positive	
Predisposition to cancer	13
Prognosis	12
Proliferation (cell proliferation)	
Prophylactic mastectomy	
Protein	
R	
Random	12
Recessive	14
Recurrence	14
Red flag	14
Relative	24
Risk	15
Risk factor	15
Runs in the family	15

S

Saliva (spit) test	15
Screen	15
Screening test	15
Second cousin	21
Siblings	22
Sister	22
Sister-in-law	22
Son	23
Son-in-law	23
Sperm	15
Sporadic	15
Spouse	23
Statistically significant	15
Stepbrother	22
Stepdaughter	23
Stepfather	20
Stepmother	20
Stepsiblings	22
Stepsister	22
Stepson	23
Syndrome	16
Τ	
Test result	17
To flip a coin	9
Trait	17
Triplets	22
True negative	17
Tumor	17
Tumor testing	18
Twins	22
Туро	18
U	
Ultrasound	18
Uncle	
Uninformative negative	
v	
Mariant	. . -
Variant	
Variant of uncertain significance	17
w	
Widow	24
	31

Widower	24
Wife	23