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Vocabulary Builder Reference from...

Danny Hillis: Understanding cancer through proteomics | TED Talk https://www.ted.com/talks/danny_hillis_understanding _cancer_through_proteomics



Advanced Words Only

IMPORTANT

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Session 1: Word List

proteome	<i>n</i> . the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications
	(1) bacterial proteome, (2) proteome database
	Scientists are studying the human proteome to understand
	better how proteins work in the body.
blueprint	n. a photographic print of an early plan for a building or machine
	synonym: draft, prototype, sketch
	(1) blueprint for economic reform, (2) architect's blueprint
	A business plan is a blueprint for your success.
larder	 n. a room or cupboard in which food supplies, especially perishable ones like meat and dairy products, are stored; a supply of food and provisions, typically stored for future use
	synonym: pantry, storage, cupboard
	(1) well-stocked larder , (2) spacious larder
	During the power outage, they relied heavily on their
	emergency larder, filled with non-perishable foods.

margarine	 n. a yellow substance made from vegetable oils or a blend of vegetable and animal fats, commonly used as a substitute for butter and is typically lower in saturated fat and cholesterol synonym: oleo, spread, butter substitute
	(1) margarine spread, (2) vegetable margarine
	My mom always switches butter for margarine in recipes.
cyst	 n. a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment synonym: abscess, sac, lump
	(1) cyst removal, (2) ovarian cyst
	The patient was sent for an X-ray to determine the cause of
	the cyst in her abdomen.
fibrosis	 n. the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure synonym: scarring, hardening, fibrotic disease
	(1) fibrosis diagnosis, (2) pulmonary fibrosis
	The doctor diagnosed him with cardiac fibrosis , which put him at risk for heart failure.
predisposition	 <i>n</i>. a tendency or inclination to a particular behavior or condition, often due to genetic or environmental factors <i>synonym</i>: tendency, inclination, disposition
	(1) predisposition to anxiety, (2) genetic predisposition Smoking can increase a person's predisposition to lung cancer.
crick	 n. sharp pain or stiffness in the neck or back that typically results from a sudden twisting or wrenching movement synonym: cramp, kink, spasm
	(1) stiff crick , (2) crick in the back

I woke up with a **crick** in my neck from sleeping in an awkward position.

oncology	 n. the branch of medicine that deals with the study and treatment of tumors, especially malignancies synonym: cancer treatment, study of tumors (1) oncology center, (2) modern oncology treatment The pharmaceutical company unveiled its latest breakthrough drug for the oncology market.
gore	 v. to pierce with a sharp object, causing injury or death; (noun) coagulated blood from a wound synonym: pierce, stab, puncture (1) gore him with a weapon, (2) gore scene The hunter gored the deer with an arrow.
resourceful	 <i>adj.</i> showing creativity and ability to find quick and practical solutions to problems <i>synonym</i>: inventive, imaginative, clever (1) resourceful thinker, (2) resourceful cook in town She was resourceful and found a solution to the problem on her own.
sip	 v. to drink a liquid by taking small mouthfuls; (noun) a small drink synonym: taste, sample, drink (1) sip a drink, (2) take a sip of beer He sipped his tea slowly, savoring the taste.
humming	 <i>adj.</i> producing a continuous, low, vibrating sound like that of the bee <i>synonym</i>: buzzing, droning, vibrating (1) humming sound, (2) humming bird The humming of the bees filled the air as she walked through the garden.

robotic	 adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots synonym: automated, mechanical, laborsaving
	(1) robotic arm, (2) robotic guide operation
	The surgeon removed the tumor using robotic video assistance.
slippery	 <i>adj.</i> difficult to hold firmly or stand on because it is wet or smooth; not to be trusted <i>synonym</i>: smooth, glistening, furtive
	(1) a slippery customer, (2) slippery ice
	How extraordinarily slippery a liar the camera is.
smudge	 <i>n</i>. a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes <i>synonym</i>: blemish, mark, stain
	(1) ink smudge , (2) lipstick smudge
	She accidentally left a smudge on the newly painted wall.
isotope	 <i>n</i>. a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties <i>synonym</i>: variant, nuclide, radioisotope
	(1) radioactive isotope , (2) stable isotope
	The isotope carbon-14 is commonly used in radiocarbon dating of fossils.
medicinal	<i>adj.</i> of or relating to the treatment or cure of disease <i>synonym</i> : curative, therapeutic, healing
	 (1) medicinal chemistry, (2) traditional medicinal The medicinal properties of this herb have been known to help with various ailments.

germ	 <i>n</i>. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one <i>synonym</i>: bacterium, microbe, pathogen
	(1) antibiotic-resistant germ , (2) a germ-free environment The germ of his idea came from watching birds flying in flocks.
scientifically	adv. in a way that relates to science or is connected with science
	(1) investigate scientifically , (2) scientifically explainable The hypothesis is not yet scientifically proven.
syphilis	 n. a sexually transmitted disease caused by the bacterium Treponema pallidum, characterized by multiple stages and a wide range of symptoms synonym: STD, venereal disease, sexually transmitted infection
	(1) oral syphilis , (2) late-stage syphilis
	Untreated syphilis can cause serious health problems.
penicillin	 <i>n.</i> an antibiotic drug derived from mold and used to treat bacterial infections <i>synonym</i>: antibiotic, bacitracin
	(1) penicillin allergy, (2) penicillin sensitivity testing The doctor prescribed penicillin to treat the bacterial infection.
quinine	 <i>n.</i> a bitter-tasting alkaloid compound found in the bark of certain cinchona trees, used in medicine to treat malaria (1) natural quinine, (2) quinine bark The tonic water in my drink contains quinine, giving it a slightly bitter taste.
miraculous	 <i>adj.</i> very effective or lucky, or completely unexpected <i>synonym</i>: amazing, astonishing, awesome (1) a miraculous encounter, (2) go through a miraculous change

He made a **miraculous** recovery.

plumber	 <i>n</i>. a person who installs and repairs the pipes and fixtures of a water supply, heating system, or drainage system <i>synonym</i>: pipefitter, pipeline engineer
	(1) plumber's wrench, (2) licensed plumber
	I had to call a plumber to fix the leaky faucet in my bathroom.
sprinkler	 n. a device that sprays water over a large area used especially for watering crops or gardens or for firefighting synonym: sprayer, irrigation system
	(1) road sprinkler , (2) sprinkler irrigation
	The sprinkler system kept the lawn green and healthy.
degenerate	 v. (of a person, animal, or plant) to become worse in health or physical condition synonym: deteriorate, decline, decay
	(1) degenerate into a disagreement, (2) degenerate into recession
	The once-thriving city has degenerated into a crime-ridden slum.
splint	 n. a rigid or flexible device used to immobilize or support a broken or injured bone or joint, often made of wood, metal, or other sturdy materials and commonly used in first aid or medical settings synonym: brace, support
	(1) splint bandage, (2) arm splint
	After my skiing accident, I had to wear a leg splint for several weeks.

Session 2: Spelling

1.	sper irrigation	n.	a device that sprays water over a large area used especially for watering crops or gardens or for firefighting
2.	investigate scilly	adv.	in a way that relates to science or is connected with science
3.	roc arm	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
4.	antibiotic-resistant gm	n.	a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
5.	go through a mirus change	adj.	very effective or lucky, or completely unexpected
6.	roc guide operation	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
7.	spacious lar	n.	a room or cupboard in which food supplies, especially perishable ones like meat and dairy products, are stored; a supply of food and provisions, typically stored for future use
8.	plr's wrench	n.	a person who installs and repairs the pipes and fixtures of a water supply, heating system, or drainage system

ANSWERS: 1. sprinkler, 2. scientifically, 3. robotic, 4. germ, 5. miraculous, 6. robotic, 7. larder, 8. plumber

9.	genetic preion	n.	a tendency or inclination to a particular behavior or condition, often due to genetic or environmental factors
10.	architect's blnt	n.	a photographic print of an early plan for a building or machine
11.	traditional meal	adj.	of or relating to the treatment or cure of disease
12.	licensed plr	n.	a person who installs and repairs the pipes and fixtures of a water supply, heating system, or drainage system
13.	well-stocked lar	n.	a room or cupboard in which food supplies, especially perishable ones like meat and dairy products, are stored; a supply of food and provisions, typically stored for future use
14.	meal chemistry	adj.	of or relating to the treatment or cure of disease
15.	penin allergy	n.	an antibiotic drug derived from mold and used to treat bacterial infections
16.	late-stage syis	n.	a sexually transmitted disease caused by the bacterium Treponema pallidum, characterized by multiple stages and a wide range of symptoms
17.	ct removal	n.	a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
18.	degte into a disagreement	ν.	(of a person, animal, or plant) to become worse in health or physical condition

ANSWERS: 9. predisposition, 10. blueprint, 11. medicinal, 12. plumber, 13. larder, 14. medicinal, 15. penicillin, 16. syphilis, 17. cyst, 18. degenerate

19.	hug sound	adj.	producing a continuous, low, vibrating sound like that of the bee
20.	a gm-free environment	n.	a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
21.	pulmonary fiis	n.	the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
22.	fiis diagnosis	n.	the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
23.	ge him with a weapon	v.	to pierce with a sharp object, causing injury or death; (noun) coagulated blood from a wound
24.	degte into recession	v.	(of a person, animal, or plant) to become worse in health or physical condition
25.	a mirus encounter	adj.	very effective or lucky, or completely unexpected

ANSWERS: 19. humming, 20. germ, 21. fibrosis, 22. fibrosis, 23. gore, 24. degenerate, 25. miraculous

26. penin sensitivity testing	n.	an antibiotic drug derived from mold and used to treat bacterial infections
27. arm spt	n.	a rigid or flexible device used to immobilize or support a broken or injured bone or joint, often made of wood, metal, or other sturdy materials and commonly used in first aid or medical settings
28. modern ongy treatment	n.	the branch of medicine that deals with the study and treatment of tumors, especially malignancies
29. mane spread	n.	a yellow substance made from vegetable oils or a blend of vegetable and animal fats, commonly used as a substitute for butter and is typically lower in saturated fat and cholesterol
30. a slry customer	adj.	difficult to hold firmly or stand on because it is wet or smooth; not to be trusted
31. lipstick sme	n.	a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
32. resul thinker	adj.	showing creativity and ability to find quick and practical solutions to problems
33. que bark	n.	a bitter-tasting alkaloid compound found in the bark of certain cinchona trees, used in medicine to treat malaria

ANSWERS: 26. penicillin, 27. splint, 28. oncology, 29. margarine, 30. slippery, 31. smudge, 32. resourceful, 33. quinine

34.	ovarian ct	n.	a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
35.	hug bird	adj.	producing a continuous, low, vibrating sound like that of the bee
36.	bacterial prme	n.	the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications
37.	stable ise	n.	a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties
38.	road sper	n.	a device that sprays water over a large area used especially for watering crops or gardens or for firefighting
39.	natural que	n.	a bitter-tasting alkaloid compound found in the bark of certain cinchona trees, used in medicine to treat malaria
40.	ongy center	n.	the branch of medicine that deals with the study and treatment of tumors, especially malignancies
41.	s_p a drink	v.	to drink a liquid by taking small mouthfuls; (noun) a small drink
42.	slry ice	adj.	difficult to hold firmly or stand on because it is wet or smooth; not to be trusted

ANSWERS: 34. cyst, 35. humming, 36. proteome, 37. isotope, 38. sprinkler, 39. quinine, 40. oncology, 41. sip, 42. slippery

43.	ge scene	<i>v</i> .	to pierce with a sharp object, causing injury or death; (noun) coagulated blood from a wound
44.	oral syis	n.	a sexually transmitted disease caused by the bacterium Treponema pallidum, characterized by multiple stages and a wide range of symptoms
45.	blnt for economic reform	n.	a photographic print of an early plan for a building or machine
46.	radioactive ise	n.	a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties
47.	crk in the back	n.	sharp pain or stiffness in the neck or back that typically results from a sudden twisting or wrenching movement
48.	vegetable mane	n.	a yellow substance made from vegetable oils or a blend of vegetable and animal fats, commonly used as a substitute for butter and is typically lower in saturated fat and cholesterol
49.	resul cook in town	adj.	showing creativity and ability to find quick and practical solutions to problems
50.	spt bandage	n.	a rigid or flexible device used to immobilize or support a broken or injured bone or joint, often made of wood, metal, or other sturdy materials and commonly used in first aid or medical settings

ANSWERS: 43. gore, 44. syphilis, 45. blueprint, 46. isotope, 47. crick, 48. margarine, 49. resourceful, 50. splint

51. take a s_p of beer	v.	to drink a liquid by taking small mouthfuls; (noun) a small drink
52. preion to anxiety	n.	a tendency or inclination to a particular behavior or condition, often due to genetic or environmental factors
53. ink sme	n.	a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
54. prme database	n.	the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications
55. stiff crk	n.	sharp pain or stiffness in the neck or back that typically results from a sudden twisting or wrenching movement
56. scilly explainable	adv	in a way that relates to science or is connected with science

ANSWERS: 51. sip, 52. predisposition, 53. smudge, 54. proteome, 55. crick, 56. scientifically

Session 3: Fill in the Blanks

- 1. During the power outage, they relied heavily on their emergency ______ filled with non-perishable foods.
- *n.* a room or cupboard in which food supplies, especially perishable ones like meat and dairy products, are stored; a supply of food and provisions, typically stored for future use
- 2. The doctor diagnosed him with cardiac ______ which put him at risk for heart failure.
- *n.* the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
- 3. She was ______ and found a solution to the problem on her own.
- *adj.* showing creativity and ability to find quick and practical solutions to problems
- 4. The hunter _____ the deer with an arrow.
- v. to pierce with a sharp object, causing injury or death; (noun) coagulated blood from a wound
- 5. Scientists are studying the human ______ to understand better how proteins work in the body.
- *n.* the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications
- 6. Smoking can increase a person's ______ to lung cancer.
- *n.* a tendency or inclination to a particular behavior or condition, often due to genetic or environmental factors

ANSWERS: 1. larder, 2. fibrosis, 3. resourceful, 4. gored, 5. proteome, 6. predisposition

- The pharmaceutical company unveiled its latest breakthrough drug for the market.
- *n.* the branch of medicine that deals with the study and treatment of tumors, especially malignancies
- 8. My mom always switches butter for _____ in recipes.
- *n.* a yellow substance made from vegetable oils or a blend of vegetable and animal fats, commonly used as a substitute for butter and is typically lower in saturated fat and cholesterol
- 9. The surgeon removed the tumor using ______ video assistance.
- *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
- 10. The ______ of the bees filled the air as she walked through the garden.
- *adj.* producing a continuous, low, vibrating sound like that of the bee
- 11. A business plan is a _____ for your success.
- *n.* a photographic print of an early plan for a building or machine
- 12. The _____ of his idea came from watching birds flying in flocks.
- *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
- 13. I woke up with a _____ in my neck from sleeping in an awkward position.
- *n.* sharp pain or stiffness in the neck or back that typically results from a sudden twisting or wrenching movement
- 14. He _____ his tea slowly, savoring the taste.
- *v.* to drink a liquid by taking small mouthfuls; (noun) a small drink

ANSWERS: 7. oncology, 8. margarine, 9. robotic, 10. humming, 11. blueprint, 12. germ, 13. crick, 14. sipped

- 15. How extraordinarily _____ a liar the camera is.
- *adj.* difficult to hold firmly or stand on because it is wet or smooth; not to be trusted
- 16. The doctor prescribed ______ to treat the bacterial infection.
- *n.* an antibiotic drug derived from mold and used to treat bacterial infections
- 17. The once-thriving city has ______ into a crime-ridden slum.
- v. (of a person, animal, or plant) to become worse in health or physical condition
- 18. After my skiing accident, I had to wear a leg _____ for several weeks.
- *n.* a rigid or flexible device used to immobilize or support a broken or injured bone or joint, often made of wood, metal, or other sturdy materials and commonly used in first aid or medical settings
- 19. He made a _____ recovery.
- *adj.* very effective or lucky, or completely unexpected
- 20. She accidentally left a _____ on the newly painted wall.
 - *n.* a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
- 21. The ______ properties of this herb have been known to help with various ailments.
- adj. of or relating to the treatment or cure of disease
- 22. Untreated _____ can cause serious health problems.
- *n.* a sexually transmitted disease caused by the bacterium Treponema pallidum, characterized by multiple stages and a wide range of symptoms

ANSWERS: 15. slippery, 16. penicillin, 17. degenerated, 18. splint, 19. miraculous, 20. smudge, 21. medicinal, 22. syphilis

- 23. The patient was sent for an X-ray to determine the cause of the _____ in her abdomen.
- *n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
- 24. The tonic water in my drink contains ______ giving it a slightly bitter taste.
- *n.* a bitter-tasting alkaloid compound found in the bark of certain cinchona trees, used in medicine to treat malaria
- 25. The hypothesis is not yet ______ proven.
- *adv.* in a way that relates to science or is connected with science
- 26. I had to call a _____ to fix the leaky faucet in my bathroom.
- *n.* a person who installs and repairs the pipes and fixtures of a water supply, heating system, or drainage system
- 27. The ______ system kept the lawn green and healthy.
- *n*. a device that sprays water over a large area used especially for watering crops or gardens or for firefighting
- 28. The _____ carbon-14 is commonly used in radiocarbon dating of fossils.
- *n.* a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties

ANSWERS: 23. cyst, 24. quinine, 25. scientifically, 26. plumber, 27. sprinkler, 28. isotope