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Vocabulary Builder Reference from...

Jorge Soto: The future of early cancer detection? |

TED Talk

https://www.ted.com/talks/jorge_soto_the_future_of_early_cancer_detection

Advanced Words Only

IMPORTANT

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Session 1: Word List

tendon

n. a strong, fibrous cord of tissue that connects muscle to bone

synonym : tissue, sinew, ligament

(1) **tendon** grafting, (2) **tendon** collagen

Tendon injuries are common among athletes.

rib

n. each of a series of curved bones that are connected to the spine and surround the chest; (adjective) subject to laughter or ridicule

synonym : costa

(1) brake a **rib**, (2) **rib** cage

The accident caused a cracked **rib**.

biopsy

n. the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease

synonym : examination, autopsy

(1) **biopsy** of bone marrow, (2) liquid **biopsy**

The doctor performed an excisional breast **biopsy**.

disrupt

v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

synonym :

interrupt, disturb, break into

(1) **disrupt** a well-ordered condition, (2) **disrupt** sleep
I'm so sorry to **disrupt** you when you're pretty busy.

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict
Internet traffic volumes have increased significantly with the advent of **smartphones**.

entrepreneurship

n. the process or skill of starting and running a business, particularly a new and innovative one

synonym: self-employment, risk-taking

(1) **entrepreneurship** culture, (2) embody **entrepreneurship**

The government is investing in programs to support **entrepreneurship** and small business development.

multidisciplinary

adj. integrating or involving various academic fields or different skills in a topic or problem-solving approach

synonym: integrative, interdisciplinary

(1) **multidisciplinary** project, (2) **multidisciplinary** analysis

He adopted a **multidisciplinary** research approach to unravel complex phenomena.

circulate

v. to move continuously or freely around a place or closed system

synonym: flow, disperse, rotate

(1) **circulate** a rumor, (2) **circulate** an agenda before the meeting

The fan **circulates** the air in the room quickly.

microRNA

n. a type of small non-coding RNA (= a type of nucleic acid that is essential for the transfer of genetic information from DNA to proteins) molecule that plays a crucial role in regulating gene expression and protein synthesis

synonym:

RNA molecule, non-coding RNA

(1) **microRNA** expression, (2) dysregulated **microRNA**
Researchers are studying the role of **microRNAs** in regulating gene expression and potential medical applications.

biomarker

n. a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

synonym: indicator, measure, signature

(1) diabetes **biomarker**, (2) **biomarker** discovery

The **biomarker** test showed that the patient was responding well to the treatment.

controllable

adj. able to be controlled or directed

synonym: manageable, governable, submissive

(1) computer- **controllable**, (2) **controllable** aircraft

The new software is much more **controllable** and user-friendly.

sever

v. to break or separate something by cutting, especially suddenly and forcibly

synonym: cut apart, separate, detach

(1) **sever** a rope, (2) **sever** a positive relationship

He **severed** a branch from a tree quickly.

remission

n. a period of time when a disease or condition is no longer present or active; a lessening or reduction of symptoms or intensity; forgiveness or pardon for sins or debts

synonym: forgiveness, amnesty, absolution

(1) complete **remission**, (2) clinical **remission**

The cancer patient was delighted to hear that their disease was in **remission**.

biochemical

adj. relating to the chemical processes and substances that occur within living organisms

synonym : molecular, biological

(1) **biochemical** reaction, (2) complex **biochemical**

Biochemical research is essential to understanding the complex chemical reactions in living organisms.

correlate

v. to have a connection or relationship in which one thing affects or depends on another

synonym : associate, liken, connect

(1) **correlate** closely with the quality, (2) **correlate** to the size

We may frequently **correlate** age with the frequency of disease.

pancreas

n. a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine

synonym : gland, organ, islet

(1) **pancreas** inflammation, (2) **pancreas** function

The endocrine function of the **pancreas** involves the secretion of hormones such as insulin.

decode

v. to convert something, such as a message or piece of information, from a specific form into one that you can understand

synonym : decipher, translate, interpret

(1) **decode** a message, (2) ability to **decode** the differences

The software could **decode** the encrypted data and reveal the hidden information.

hepatic

adj. relating to or affecting the liver; characteristic or pertaining to the liver

synonym : liver-related, hepatocellular

(1) **hepatic** duct, (2) **hepatic** enzymes

The patient underwent a **hepatic** transplant to improve liver

function.

germ

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

synonym: bacterium, microbe, pathogen

(1) antibiotic-resistant **germ**, (2) a **germ-free** environment

The **germ** of his idea came from watching birds flying in flocks.

Session 2: Spelling

- | | |
|---|---|
| 1. bi_____er discovery | <i>n.</i> a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention |
| 2. brake a r_b | <i>n.</i> each of a series of curved bones that are connected to the spine and surround the chest; (adjective) subject to laughter or ridicule |
| 3. embody ent_____hip | <i>n.</i> the process or skill of starting and running a business, particularly a new and innovative one |
| 4. se__r a rope | <i>v.</i> to break or separate something by cutting, especially suddenly and forcibly |
| 5. pa_____as function | <i>n.</i> a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine |
| 6. te___n grafting | <i>n.</i> a strong, fibrous cord of tissue that connects muscle to bone |
| 7. he_____c enzymes | <i>adj.</i> relating to or affecting the liver; characteristic or pertaining to the liver |
| 8. ci_____te an agenda before the meeting | <i>v.</i> to move continuously or freely around a place or closed system |

ANSWERS: 1. biomarker, 2. rib, 3. entrepreneurship, 4. sever, 5. pancreas, 6. tendon, 7. hepatic, 8. circulate

9. con_____ble aircraft *adj.* able to be controlled or directed
10. mul_____ary project *adj.* integrating or involving various academic fields or different skills in a topic or problem-solving approach
11. co_____te closely with the quality *v.* to have a connection or relationship in which one thing affects or depends on another
12. bio_____al reaction *adj.* relating to the chemical processes and substances that occur within living organisms
13. mul_____ary analysis *adj.* integrating or involving various academic fields or different skills in a topic or problem-solving approach
14. a g__m-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
15. di_____t sleep *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
16. co_____te to the size *v.* to have a connection or relationship in which one thing affects or depends on another
17. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
18. mi_____NA expression *n.* a type of small non-coding RNA (= a type of nucleic acid that is essential for the transfer of genetic information from DNA to proteins) molecule that plays a crucial role in regulating gene expression and protein synthesis

ANSWERS: 9. controllable, 10. multidisciplinary, 11. correlate, 12. biochemical, 13. multidisciplinary, 14. germ, 15. disrupt, 16. correlate, 17. smartphone, 18. microRNA

19. te___n collagen *n.* a strong, fibrous cord of tissue that connects muscle to bone
20. se__r a positive relationship *v.* to break or separate something by cutting, especially suddenly and forcibly
21. dysregulated mi_____NA *n.* a type of small non-coding RNA (= a type of nucleic acid that is essential for the transfer of genetic information from DNA to proteins) molecule that plays a crucial role in regulating gene expression and protein synthesis
22. bi___y of bone marrow *n.* the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
23. ent_____hip culture *n.* the process or skill of starting and running a business, particularly a new and innovative one
24. complex bio_____al *adj.* relating to the chemical processes and substances that occur within living organisms
25. ability to de___e the differences *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
26. he_____c duct *adj.* relating to or affecting the liver; characteristic or pertaining to the liver
27. antibiotic-resistant g__m *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

ANSWERS: 19. tendon, 20. sever, 21. microRNA, 22. biopsy, 23. entrepreneurship, 24. biochemical, 25. decode, 26. hepatic, 27. germ

28. r_b cage *n.* each of a series of curved bones that are connected to the spine and surround the chest; (adjective) subject to laughter or ridicule
29. de___e a message *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
30. computer-con_____ble *adj.* able to be controlled or directed
31. liquid bi___y *n.* the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
32. complete re_____on *n.* a period of time when a disease or condition is no longer present or active; a lessening or reduction of symptoms or intensity; forgiveness or pardon for sins or debts
33. clinical re_____on *n.* a period of time when a disease or condition is no longer present or active; a lessening or reduction of symptoms or intensity; forgiveness or pardon for sins or debts
34. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
35. di_____t a well-ordered condition *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

ANSWERS: 28. rib, 29. decode, 30. controllable, 31. biopsy, 32. remission, 33. remission, 34. smartphone, 35. disrupt

36. ci_____te a rumor
37. diabetes bi_____er
38. pa_____as inflammation
- v.* to move continuously or freely around a place or closed system
- n.* a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention
- n.* a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine

ANSWERS: 36. circulate, 37. biomarker, 38. pancreas

Session 3: Fill in the Blanks

1. The new software is much more _____ and user-friendly.
adj. able to be controlled or directed
2. The accident caused a cracked _____.
n. each of a series of curved bones that are connected to the spine and surround the chest; (adjective) subject to laughter or ridicule
3. The software could _____ the encrypted data and reveal the hidden information.
v. to convert something, such as a message or piece of information, from a specific form into one that you can understand
4. Researchers are studying the role of _____ in regulating gene expression and potential medical applications.
n. a type of small non-coding RNA (= a type of nucleic acid that is essential for the transfer of genetic information from DNA to proteins) molecule that plays a crucial role in regulating gene expression and protein synthesis
5. The doctor performed an excisional breast _____.
n. the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
6. _____ research is essential to understanding the complex chemical reactions in living organisms.
adj. relating to the chemical processes and substances that occur within living organisms
7. The _____ test showed that the patient was responding well to the treatment.
n. a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

ANSWERS: 1. controllable, 2. rib, 3. decode, 4. microRNAs, 5. biopsy, 6.

Biochemical, 7. biomarker

8. We may frequently _____ age with the frequency of disease.
- v.* to have a connection or relationship in which one thing affects or depends on another
9. The cancer patient was delighted to hear that their disease was in _____.
- n.* a period of time when a disease or condition is no longer present or active; a lessening or reduction of symptoms or intensity; forgiveness or pardon for sins or debts
10. He adopted a _____ research approach to unravel complex phenomena.
- adj.* integrating or involving various academic fields or different skills in a topic or problem-solving approach
11. The government is investing in programs to support _____ and small business development.
- n.* the process or skill of starting and running a business, particularly a new and innovative one
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. The endocrine function of the _____ involves the secretion of hormones such as insulin.
- n.* a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine
14. Internet traffic volumes have increased significantly with the advent of _____.
- n.* a mobile phone that functions as a computer and connects to the Internet

ANSWERS: 8. correlate, 9. remission, 10. multidisciplinary, 11. entrepreneurship, 12. germ, 13. pancreas, 14. smartphones

15. I'm so sorry to _____ you when you're pretty busy.

- v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

16. The fan _____ the air in the room quickly.

- v.* to move continuously or freely around a place or closed system

17. He _____ a branch from a tree quickly.

- v.* to break or separate something by cutting, especially suddenly and forcibly

18. The patient underwent a _____ transplant to improve liver function.

- adj.* relating to or affecting the liver; characteristic or pertaining to the liver

19. _____ injuries are common among athletes.

- n.* a strong, fibrous cord of tissue that connects muscle to bone

ANSWERS: 15. disrupt, 16. circulates, 17. severed, 18. hepatic, 19. Tendon