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Vocabulary Builder Reference from...

Ugur Sahin and Ozlem Tureci: Meet the scientist couple driving an mRNA vaccine revolution | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

breathless

adj. feeling or causing a lack of breath, often due to exertion or excitement; intense or exciting to the point of causing a feeling of breathlessness

synonym : panting, winded, out of breath

(1) with **breathless** interest, (2) **breathless** anticipation

After running up the stairs, I was left **breathless** and sweaty.

pandemic

n. an outbreak of a disease that affects many people over a very wide area

synonym : outbreak

(1) flu **pandemic**, (2) global **pandemic**

They fear a **pandemic** of a new type of virus.

mindset

n. the established set of attitudes or fixed ideas held by someone

synonym : attitude, ethos, mentality

(1) flexible **mindset**, (2) the **mindset** in an education system

Countries whose goal is economic development often focus on fostering an entrepreneurial **mindset** in each individual.

hunch

- v.* to lean forward or arch one's back in a way that suggests a feeling of suspicion or uncertainty; to have a feeling or presentiment that something is true or likely to happen, without evidence or explicit proof

synonym : crouch, guess, speculate

(1) **hunch** against the rain, (2) **hunch** up the shoulders
I **hunch** over my computer all day, and my back aches after a while.

hematology

- n.* the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone marrow and lymphatic system

synonym : study of blood, blood science, hemopathology

(1) **hematology** finding, (2) **hematology** department
The medical lab specializes in **hematology** testing and analysis.

haunted

- adj.* inhabited, visited, or frequented by ghosts or spirits; disturbed or troubled by persistent or disturbing memories or emotions

synonym : spooky, eerie, ghostly

(1) **haunted** house, (2) **haunted** by memories
The old mansion was known to be **haunted**, with strange noises and eerie sightings reported by visitors.

intersect

- v.* to meet or cross one another

synonym : cross, bisect, cut

(1) **intersect** at a point, (2) railways **intersect** the country
Her multidisciplinary works **intersect** music and picture with writing.

mRNA

- n.* (an abbreviation for messenger RNA) a single-stranded molecule of RNA that corresponds to the genetic sequence of a gene, and is read by a ribosome in the process of synthesizing a protein

(1) **mRNA** translation, (2) nuclear **mRNA**

The **mRNA** vaccine can expedite many approval processes because it does not contain a virus.

fascinate

v. to attract and hold the attention of someone deeply and irresistibly

synonym: captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young

The magic tricks **fascinated** the children.

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

well-being

n. the state of being happy and healthy and prosperous

synonym: health, welfare, happiness

(1) the **well-being** of a nation, (2) a sense of **well-being**

We are responsible for the care and **well-being** of all our employees.

instruct

v. to teach someone practical skills or knowledge; to formally order or tell someone to do something

synonym: train, coach, guide

(1) **instruct** a student, (2) **instruct** a computer

The facility manager **instructed** the security guards to be on high alert.

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.

pharmacokinetic

adj. relating to the absorption, distribution, metabolism, and excretion of drugs or other compounds within a living organism

synonym : pharmacodynamic, drug absorption, drug distribution

(1) **pharmacokinetic** profile, (2) complex **pharmacokinetic** interactions

The **pharmacokinetic** properties of a drug can affect its effectiveness.

lymph

n. a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading

(1) **lymph** vessel, (2) **lymph** flow

There was a massive swelling of the **lymph** nodes.

nod

v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

synonym : respond, acknowledge, greet

(1) **nod** at each other, (2) **nod** courteously

She **noded** quietly in response to the question.

vaccinate

v. to treat with a vaccine, usually by injection, to produce immunity against a disease

synonym : immunize, inject, inoculate

(1) **vaccinate** against scarlet fever, (2) **vaccinate** every year

The nurse **vaccinated** the children in the school.

nanoparticle

n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter

(1) aluminum **nanoparticle**, (2) atmospheric **nanoparticle**

For some creatures, carbon **nanoparticles** are deadly.

encapsulate

v. to enclose or envelop something within a capsule or a membrane; to express or summarize the essence or core of something in a condensed form

synonym : enclose, contain, capsulize

(1) **encapsulate** the message, (2) **encapsulate** the essence

The movie can **encapsulate** the book's spirit, bringing it to life on screen.

dendroid

adj. resembling a tree or branching pattern; having the characteristics of a tree

synonym : branching, tree-like, dendritic

(1) **dendroid** branches, (2) **dendroid** pattern

The **dendroid** structure of the coral reef offers a unique environment for many marine species.

pathogen

n. a bacterium, virus, or other microorganism that causes disease

synonym : germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air

mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

disguise

v. to hide or alter someone's appearance to deceive or mislead others

synonym : mask, misinterpret, cloak

(1) **disguise** my feelings, (2) **disguise** his voice

Later it turned out that the politician **disguised** the fact from the public.

coronavirus

n. a large family of viruses that can cause illness in humans and animals, which name comes from the crown-like spikes on the surface of the virus, which can be seen under a microscope, and COVID-19 is caused by a specific type of coronavirus known as SARS-CoV-2

synonym : covid

(1) **coronavirus** antibody test kit, (2) **coronavirus** bankruptcy

Considering the situation of **coronavirus**, organized stopped

this year's beer festival.

ecstatic

adj. feeling or characterized by intense joy, delight, or enthusiasm

synonym: joyful, thrilled, exultant

(1) **ecstatic** joy, (2) **ecstatic** dance

She was **ecstatic** to receive the news that she had won the lottery.

disturb

v. to interrupt someone who is trying to work, sleep, etc.

synonym: agitate, bother, intrude

(1) **disturb** the peace, (2) **disturb** his sleep

Tourists frequently **disturb** the island's delicate natural balance.

autoimmune

adj. relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances

(1) insulin **autoimmune** syndrome, (2) **autoimmune** disorder

The presence of certain substances triggered the **autoimmune** response.

billionaire

n. a person who has a net worth of at least one billion dollars

synonym: mega-rich, wealthy, tycoon

(1) Silicon Valley **billionaire**, (2) oil **billionaire**

The self-made **billionaire** donated millions to charity.

distract

v. to draw someone's attention away from what they are trying to do

synonym: divert, preoccupy, confuse

(1) **distract** attention from the real issue, (2) **distract** public opinion

Please don't **distract** me while I'm studying.

unmet

adj. describing a need, goal, or expectation that has not been satisfied or fulfilled

synonym: unsatisfied, unfulfilled, unmatched

(1) **unmet** demand, (2) **unmet** needs

The **unmet** expectations of the customers led to a decrease in sales.

immigrate

v. to come to live permanently in a foreign country

synonym: migrate, relocate, settle

(1) **immigrate** to the country, (2) **immigrate** through available legal processes

He **immigrated** to the United States in search of a better life.

Session 2: Spelling

1. va_____te against scarlet fever
v. to treat with a vaccine, usually by injection, to produce immunity against a disease
2. insulin aut_____ne syndrome
adj. relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
3. im_____te to the country
v. to come to live permanently in a foreign country
4. aut_____ne disorder
adj. relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
5. un__t needs
adj. describing a need, goal, or expectation that has not been satisfied or fulfilled
6. a sense of wel_____ng
n. the state of being happy and healthy and prosperous
7. architect's bl_____nt
n. a photographic print of an early plan for a building or machine
8. ha_____d house
adj. inhabited, visited, or frequented by ghosts or spirits; disturbed or troubled by persistent or disturbing memories or emotions
9. with bre_____ss interest
adj. feeling or causing a lack of breath, often due to exertion or excitement; intense or exciting to the point of causing a feeling of breathlessness

ANSWERS: 1. vaccinate, 2. autoimmune, 3. immigrate, 4. autoimmune, 5. unmet, 6. well-being, 7. blueprint, 8. haunted, 9. breathless

10. nuclear m__A *n.* (an abbreviation for messenger RNA) a single-stranded molecule of RNA that corresponds to the genetic sequence of a gene, and is read by a ribosome in the process of synthesizing a protein
11. ec____ic dance *adj.* feeling or characterized by intense joy, delight, or enthusiasm
12. im_____te through available legal processes *v.* to come to live permanently in a foreign country
13. flexible mi____t *n.* the established set of attitudes or fixed ideas held by someone
14. bl_____nt for economic reform *n.* a photographic print of an early plan for a building or machine
15. n_d at each other *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
16. enc_____te the essence *v.* to enclose or envelop something within a capsule or a membrane; to express or summarize the essence or core of something in a condensed form
17. the mi____t in an education system *n.* the established set of attitudes or fixed ideas held by someone
18. traditional me_____al *adj.* of or relating to the treatment or cure of disease
19. the pa_____en in the air *n.* a bacterium, virus, or other microorganism that causes disease
20. cor_____us antibody test kit *n.* a large family of viruses that can cause illness in humans and animals, which name comes from the crown-like spikes on the surface of the virus, which can be seen under a microscope, and COVID-19 is caused by a specific type of coronavirus known as SARS-CoV-2

ANSWERS: 10. mRNA, 11. ecstatic, 12. immigrate, 13. mindset, 14. blueprint, 15. nod, 16. encapsulate, 17. mindset, 18. medicinal, 19. pathogen, 20. coronavirus

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|------------------------------------|---|
| 21. aluminum nan_____cle | <i>n.</i> a particle of matter that is between 1 and 100 nanometres (nm) in diameter |
| 22. plant pa_____en | <i>n.</i> a bacterium, virus, or other microorganism that causes disease |
| 23. flu pa_____ic | <i>n.</i> an outbreak of a disease that affects many people over a very wide area |
| 24. de_____id branches | <i>adj.</i> resembling a tree or branching pattern; having the characteristics of a tree |
| 25. railways in_____ct the country | <i>v.</i> to meet or cross one another |
| 26. di_____b the peace | <i>v.</i> to interrupt someone who is trying to work, sleep, etc. |
| 27. di_____se my feelings | <i>v.</i> to hide or alter someone's appearance to deceive or mislead others |
| 28. pha_____tic profile | <i>adj.</i> relating to the absorption, distribution, metabolism, and excretion of drugs or other compounds within a living organism |
| 29. m__A translation | <i>n.</i> (an abbreviation for messenger RNA) a single-stranded molecule of RNA that corresponds to the genetic sequence of a gene, and is read by a ribosome in the process of synthesizing a protein |
| 30. fa_____te the young | <i>v.</i> to attract and hold the attention of someone deeply and irresistibly |
| 31. hu__h up the shoulders | <i>v.</i> to lean forward or arch one's back in a way that suggests a feeling of suspicion or uncertainty; to have a feeling or presentiment that something is true or likely to happen, without evidence or explicit proof |

ANSWERS: 21. nanoparticle, 22. pathogen, 23. pandemic, 24. dendroid, 25. intersect, 26. disturb, 27. disguise, 28. pharmacokinetic, 29. mRNA, 30. fascinate, 31. hunch

32. ha____d by memories *adj.* inhabited, visited, or frequented by ghosts or spirits; disturbed or troubled by persistent or disturbing memories or emotions
33. atmospheric nan_____cle *n.* a particle of matter that is between 1 and 100 nanometres (nm) in diameter
34. in_____ct a computer *v.* to teach someone practical skills or knowledge; to formally order or tell someone to do something
35. bre_____ss anticipation *adj.* feeling or causing a lack of breath, often due to exertion or excitement; intense or exciting to the point of causing a feeling of breathlessness
36. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
37. ly__h flow *n.* a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading
38. ly__h vessel *n.* a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading
39. n_d courteously *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
40. un__t demand *adj.* describing a need, goal, or expectation that has not been satisfied or fulfilled

ANSWERS: 32. haunted, 33. nanoparticle, 34. instruct, 35. breathless, 36. medicinal, 37. lymph, 38. lymph, 39. nod, 40. unmet

41. complex pha_____tic interactions
adj. relating to the absorption, distribution, metabolism, and excretion of drugs or other compounds within a living organism
42. di_____ct attention from the real issue
v. to draw someone's attention away from what they are trying to do
43. in_____ct a student
v. to teach someone practical skills or knowledge; to formally order or tell someone to do something
44. de_____id pattern
adj. resembling a tree or branching pattern; having the characteristics of a tree
45. di_____ct public opinion
v. to draw someone's attention away from what they are trying to do
46. hem_____gy department
n. the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone marrow and lymphatic system
47. fa_____te the public
v. to attract and hold the attention of someone deeply and irresistibly
48. enc_____te the message
v. to enclose or envelop something within a capsule or a membrane; to express or summarize the essence or core of something in a condensed form
49. hu__h against the rain
v. to lean forward or arch one's back in a way that suggests a feeling of suspicion or uncertainty; to have a feeling or presentiment that something is true or likely to happen, without evidence or explicit proof

ANSWERS: 41. pharmacokinetic, 42. distract, 43. instruct, 44. dendroid, 45. distract, 46. hematology, 47. fascinate, 48. encapsulate, 49. hunch

50. hem_____gy finding *n.* the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone marrow and lymphatic system
51. va_____te every year *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
52. global pa_____ic *n.* an outbreak of a disease that affects many people over a very wide area
53. Silicon Valley bil_____re *n.* a person who has a net worth of at least one billion dollars
54. di_____se his voice *v.* to hide or alter someone's appearance to deceive or mislead others
55. oil bil_____re *n.* a person who has a net worth of at least one billion dollars
56. di_____b his sleep *v.* to interrupt someone who is trying to work, sleep, etc.
57. cor_____us bankruptcy *n.* a large family of viruses that can cause illness in humans and animals, which name comes from the crown-like spikes on the surface of the virus, which can be seen under a microscope, and COVID-19 is caused by a specific type of coronavirus known as SARS-CoV-2
58. the wel_____ng of a nation *n.* the state of being happy and healthy and prosperous

ANSWERS: 50. hematology, 51. vaccinate, 52. pandemic, 53. billionaire, 54. disguise, 55. billionaire, 56. disturb, 57. coronavirus, 58. well-being

59. in_____ct at a point

v. to meet or cross one another

60. ec_____ic joy

adj. feeling or characterized by intense joy, delight, or enthusiasm

ANSWERS: 59. intersect, 60. ecstatic

Session 3: Fill in the Blanks

1. The movie can _____ the book's spirit, bringing it to life on screen.
 - v. to enclose or envelop something within a capsule or a membrane; to express or summarize the essence or core of something in a condensed form

2. There was a massive swelling of the _____ nodes.
 - n. a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading

3. The magic tricks _____ the children.
 - v. to attract and hold the attention of someone deeply and irresistibly

4. The presence of certain substances triggered the _____ response.
 - adj. relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances

5. She _____ quietly in response to the question.
 - v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

6. The _____ vaccine can expedite many approval processes because it does not contain a virus.
 - n. (an abbreviation for messenger RNA) a single-stranded molecule of RNA that corresponds to the genetic sequence of a gene, and is read by a ribosome in the process of synthesizing a protein

7. Tourists frequently _____ the island's delicate natural balance.
 - v. to interrupt someone who is trying to work, sleep, etc.

ANSWERS: 1. encapsulate, 2. lymph, 3. fascinated, 4. autoimmune, 5. nodded, 6. mRNA, 7. disturb

8. The _____ structure of the coral reef offers a unique environment for many marine species.

adj. resembling a tree or branching pattern; having the characteristics of a tree

9. After running up the stairs, I was left _____ and sweaty.

adj. feeling or causing a lack of breath, often due to exertion or excitement; intense or exciting to the point of causing a feeling of breathlessness

10. For some creatures, carbon _____ are deadly.

n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter

11. The medical lab specializes in _____ testing and analysis.

n. the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone marrow and lymphatic system

12. Considering the situation of _____ organized stopped this year's beer festival.

n. a large family of viruses that can cause illness in humans and animals, which name comes from the crown-like spikes on the surface of the virus, which can be seen under a microscope, and COVID-19 is caused by a specific type of coronavirus known as SARS-CoV-2

13. She was _____ to receive the news that she had won the lottery.

adj. feeling or characterized by intense joy, delight, or enthusiasm

14. The self-made _____ donated millions to charity.

n. a person who has a net worth of at least one billion dollars

ANSWERS: 8. dendroid, 9. breathless, 10. nanoparticles, 11. hematology, 12. coronavirus, 13. ecstatic, 14. billionaire

15. The _____ properties of a drug can affect its effectiveness.

adj. relating to the absorption, distribution, metabolism, and excretion of drugs or other compounds within a living organism

16. I _____ over my computer all day, and my back aches after a while.

v. to lean forward or arch one's back in a way that suggests a feeling of suspicion or uncertainty; to have a feeling or presentiment that something is true or likely to happen, without evidence or explicit proof

17. The _____ properties of this herb have been known to help with various ailments.

adj. of or relating to the treatment or cure of disease

18. Please don't _____ me while I'm studying.

v. to draw someone's attention away from what they are trying to do

19. We are responsible for the care and _____ of all our employees.

n. the state of being happy and healthy and prosperous

20. Later it turned out that the politician _____ the fact from the public.

v. to hide or alter someone's appearance to deceive or mislead others

21. The old mansion was known to be _____ with strange noises and eerie sightings reported by visitors.

adj. inhabited, visited, or frequented by ghosts or spirits; disturbed or troubled by persistent or disturbing memories or emotions

22. He _____ to the United States in search of a better life.

v. to come to live permanently in a foreign country

ANSWERS: 15. pharmacokinetic, 16. hunch, 17. medicinal, 18. distract, 19. well-being, 20. disguised, 21. haunted, 22. immigrated

23. Countries whose goal is economic development often focus on fostering an entrepreneurial _____ in each individual.
n. the established set of attitudes or fixed ideas held by someone
24. Her multidisciplinary works _____ music and picture with writing.
v. to meet or cross one another
25. They fear a _____ of a new type of virus.
n. an outbreak of a disease that affects many people over a very wide area
26. mRNA vaccines are approved faster because they do not contain inactivated _____.
n. a bacterium, virus, or other microorganism that causes disease
27. The _____ expectations of the customers led to a decrease in sales.
adj. describing a need, goal, or expectation that has not been satisfied or fulfilled
28. A business plan is a _____ for your success.
n. a photographic print of an early plan for a building or machine
29. The facility manager _____ the security guards to be on high alert.
v. to teach someone practical skills or knowledge; to formally order or tell someone to do something
30. The nurse _____ the children in the school.
v. to treat with a vaccine, usually by injection, to produce immunity against a disease

ANSWERS: 23. mindset, 24. intersect, 25. pandemic, 26. pathogens, 27. unmet, 28. blueprint, 29. instructed, 30. vaccinated