Englist.me

Vocabulary Builder Reference from...

Nina Tandon: Could tissue engineering mean personalized medicine? | TED Talk https://www.ted.com/talks/nina_tandon_could_tissue_engineering_mean_personalized_medicine



Advanced Words Only

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments He is very popular at school because he can **mimic** all the teachers' accents.

pluripotent

adj. describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications

synonym: versatile, all-purpose, adaptable

(1) **pluripotent** embryonic cells, (2) **pluripotent** gene expression

Pluripotent stem cells can differentiate into any cell in the body.

embryonic

adj. of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development

synonym: embryonal

(1) **embryonic** stem cells, (2) **embryonic** development The project is still in its **embryonic** stage.

amnesia

a condition in which a person is unable to remember things, often as a result of brain damage, shock, or illness

synonym: forgetfulness, blackout, memory loss

(1) childhood **amnesia**, (2) **amnesia** by trauma The accident caused her to suffer from temporary **amnesia**, and she couldn't remember anything that happened before the collision.

schematic

- adj. relating to or in the form of a scheme or diagram; showing the structure or organization of something synonym: diagrammatic, blueprint, structural
- (1) schematic model, (2) simplified schematic The engineer used a **schematic** diagram to plan out the wiring for the new building.

bioreactor

- a device or system used to cultivate living cells, tissues, or organisms for industrial or research purposes synonym: fermenter
- (1) bioreactor engineering, (2) anaerobic bioreactor The scientists optimized the conditions in the **bioreactor** to increase the yield of the desired product.

neuron

- a cell that is specialized to carry information within the brain and between the brain and other parts of the body synonym: nerve cell
- (1) excite the neurons, (2) neuron cell body Our body transfers information along each **neuron** using an electrical impulse.

retinitis

 an inflammation of the retina (= the thin, light-sensitive tissue that lines the inside surface of the eye) which can cause decreased vision or possibly lead to blindness

synonym: retinal inflammation, retinopathy

(1) **retinitis** treatment, (2) infectious **retinitis Retinitis** pigmentosa is a group of genetic disorders that affect the retina's ability to respond to light.

pigment

 a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced

synonym: dye, colorant, tint

(1) skin **pigment**, (2) **pigment** accumulation

The use of synthetic **pigments** in food production has become controversial due to health concerns.

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.

retina

- the innermost light-sensitive membrane covering the back wall of the eyeball
- (1) **retinal** cells, (2) **retina** scanner

 Damage to the **retina** may play a role in the development of glaucoma.

byproduct

 a secondary or incidental product produced in the manufacture or synthesis of something else

synonym: side effect, spinoff, outgrowth

(1) toxic **byproducts**, (2) **byproduct** of technology

The **byproduct** of the energy production process is a large amount of carbon dioxide emissions.

antidepressant

- any of a class of drugs used to reduce feelings of sadness and worry
- (1) an **antidepressant** drug, (2) **antidepressant** effect She has been taking **antidepressants** since her baby died.

personalize

v. to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

synonym: customize, individualize, tailor

(1) **personalize** social media profile, (2) **personalize** my workspace

I like to **personalize** my phone case with a picture of my dog.

poise

 a calm, confident, and graceful manner with control of your feelings or behavior

synonym: confidence, grace, calmness

(1) aesthetic **poise**, (2) with easy **poise**

He took a deep breath and recovered a little of his **poise**.

revolutionize

v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas

synonym: transform, innovate, modernize

(1) **revolutionize** the industry, (2) **revolutionize** the technology

The invention of the smartphone **revolutionized** the way we communicate with each other.

individualize

v. to make something personal or more personal to suit the needs of a particular person, place, etc.

synonym: personalize, differentiate

(1) **individualize** each patient, (2) **individualize** dosages Our schools offer **individualized** education by excellent teachers.

disrupt

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.

cheaply

adv. in a stingy or inexpensive mannersynonym: inexpensively, tattily, stingily

(1) **cheaply** available, (2) buy stock **cheaply** You can live very **cheaply** in Southeast Asia.

Session 2: Spelling

1. childhood am____a

2. di___t sleep

3. re___a scanner

4. per ze my workspace

5. bio____or engineering

6. deg te into recession

7. with easy po__e

8. ne n cell body

 a condition in which a person is unable to remember things, often as a result of brain damage, shock, or illness

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

n. the innermost light-sensitive membrane covering the back wall of the eyeball

v. to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

 a device or system used to cultivate living cells, tissues, or organisms for industrial or research purposes

v. (of a person, animal, or plant) to become worse in health or physical condition

 a calm, confident, and graceful manner with control of your feelings or behavior

a cell that is specialized to carry information within the brain and between the brain and other parts of the body

ANSWERS: 1. amnesia, 2. disrupt, 3. retina, 4. personalize, 5. bioreactor, 6. degenerate, 7. poise, 8. neuron

9.	antant effect	n.	any of a class of drugs used to reduce feelings of sadness and worry
10.	buy stock chy	adv.	in a stingy or inexpensive manner
11.	degte into a disagreement	ν.	(of a person, animal, or plant) to become worse in health or physical condition
12.	skin pit	n.	a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced
13.	dit a well-ordered condition	ν.	to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
14.	plunt embryonic cells	adj.	describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
15.	an antant drug	<i>n</i> .	any of a class of drugs used to reduce feelings of sadness and worry
16.	simplified scic	adj.	relating to or in the form of a scheme or diagram; showing the structure or organization of something
17.	perze social media profile	<i>v</i> .	to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

ANSWERS: 9. antidepressant, 10. cheaply, 11. degenerate, 12. pigment, 13. disrupt, 14. pluripotent, 15. antidepressant, 16. schematic, 17. personalize

ANSWERS: 18. embryonic, 19. individualize, 20. cheaply, 21. pigment, 22. pluripotent, 23. poise, 24. schematic, 25. humming, 26. mimic, 27. bioreactor, 28. retinitis

blindness

29.	emic stem cells	adj.	of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
30.	revize the technology	ν.	to bring about a complete or radical change in something, often through the introduction of new methods or ideas
31.	mic a human voice	ν.	to imitate someone's speech, movement, or behavior, especially to make others laugh
32.	real cells	n.	the innermost light-sensitive membrane covering the back wall of the eyeball
33.	reis treatment	n.	an inflammation of the retina (= the thin light-sensitive tissue that lines the inside surface of the eye) which can cause decreased vision or possibly lead to blindness
34.	toxic bycts	n.	a secondary or incidental product produced in the manufacture or synthesis of something else
35.	hug sound	adj.	producing a continuous, low, vibrating sound like that of the bee
36.	ama by trauma	n.	a condition in which a person is unable to remember things, often as a result of brain damage, shock, or illness
37.	indize each patient	<i>v</i> .	to make something personal or more personal to suit the needs of a particula person, place, etc.
38.	byct of technology	n.	a secondary or incidental product produced in the manufacture or synthesis of something else

ANSWERS: 29. embryonic, 30. revolutionize, 31. mimic, 32. retina, 33. retinitis, 34. byproduct, 35. humming, 36. amnesia, 37. individualize, 38. byproduct

39. excite the ne___ns

- a cell that is specialized to carry information within the brain and between the brain and other parts of the body
- 40. rev____ize the industry
- v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas

ANSWERS: 39. neuron, 40. revolutionize

Session 3: Fill in the Blanks

1.	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
2.	The scientists optimized the conditions in the to increase the yield of the desired product.
n.	a device or system used to cultivate living cells, tissues, or organisms for industrial or research purposes
3.	Our body transfers information along each using an electrical impulse.
n.	a cell that is specialized to carry information within the brain and between the brain and other parts of the body
4.	The of the energy production process is a large amount of carbon dioxide emissions.
n.	a secondary or incidental product produced in the manufacture or synthesis of something else
5.	Damage to the may play a role in the development of glaucoma.
n.	the innermost light-sensitive membrane covering the back wall of the eyeball
6.	pigmentosa is a group of genetic disorders that affect the retina's ability to respond to light.
n.	an inflammation of the retina (= the thin, light-sensitive tissue that lines the inside surface of the eye) which can cause decreased vision or possibly lead to blindness
7.	I like to my phone case with a picture of my dog.
ν.	to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

ANSWERS: 1. humming, 2. bioreactor, 3. neuron, 4. byproduct, 5. retina, 6. Retinitis, 7. personalize