

RECORD OF e CLASS USING ZOOM WEBINAR**ZOOM WEBLINK:3388413098****TOTAL NUMBER OF PRESENT:97**

PRESENTATION	LECTURE
TOPIC	MUTATION
PRESENTER	DR. RASHMI
DEPARTMENT	DEPARTMENT OF BIO CHEMISTRY
DATE	13.04.2020
TIMING	9.30 AM TO 10.30 AM
UG PARTICPANTS	FIRST YEAR BDS 2019 - 2020

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Slides Outline

1 Mutations

2 DNA: the molecule of life

3 codon Mutation is a permanent change in the base of deoxyribose nucleotides

4 Mutation is

- Disrupts the genetic code
- Essential for the diversity of the organism and adaptation to environment
- Harmful when it affects protein structure & production causing disease

5 Frequency

Slide 1 of 35 "Office Theme"

Vishnusi V

Mutations

PK joined the meeting

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Slides Outline

1 Mutations

2 DNA the molecule of life

3 *Mutation is a permanent change in the base of deoxyribo nucleotide*

4 Mutation is

codon

G C A

1 codon = 1 amino acid

Mutation is a permanent change in the base of deoxyribo nucleotide

Subashree Renganathan Bhuvanesh G prithega m Narmadha Srinivasan

9:52 AM Mon 13 Apr

Leave Meeting 338-841-3098 Password: 385013

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Slides Outline

17 Silent

- no observable effect when the change occurs in the 3rd position of codon.
- Ex: They codes for arginine, Asn and His, and thus do the same translation having a change of AGG and AGU before of encoding.

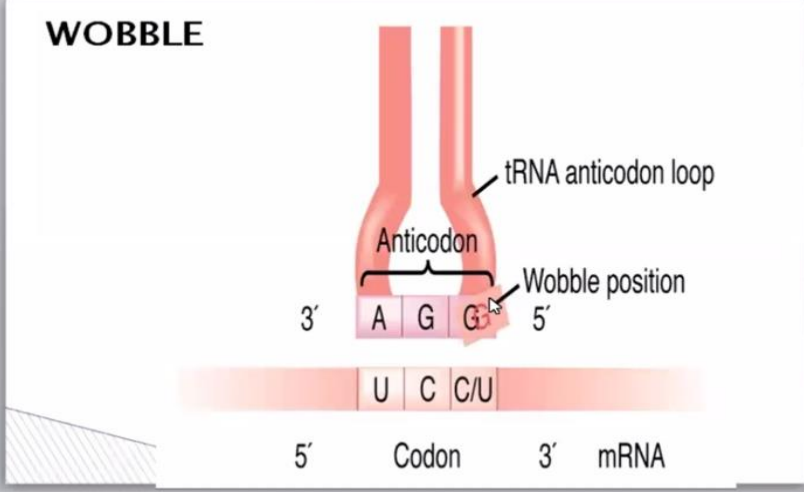
18 Missense

- codes for different amino acid depends on the site in the specific protein the new site may be acceptable, partially acceptable, or unacceptable to the function of that protein molecule.

19 Clinical conditions explaining missense mutations:

Protein	Mutation	Effect
Hemoglobin	Sickle cell anemia	Severe
Phenylalanine hydroxylase	Phenylketonuria	Severe
Glucose-6-phosphate dehydrogenase	Glucose-6-phosphate dehydrogenase deficiency	Severe
Enkephalinase	Enkephalinase deficiency	Severe
Alcohol dehydrogenase	Alcohol dehydrogenase deficiency	Severe
Aspartate aminotransferase	Aspartate aminotransferase deficiency	Severe
Glutamate dehydrogenase	Glutamate dehydrogenase deficiency	Severe
Glutamate decarboxylase	Glutamate decarboxylase deficiency	Severe
Glutamate decarboxylase	Glutamate decarboxylase deficiency	Severe
Glutamate decarboxylase	Glutamate decarboxylase deficiency	Severe

20 Wobble



biochemistry bds' screen

N Navin Bhuvanesh G Jane Cardilia Sushurutha ananthan



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Slides Outline

1 Mutations

2 DNA the molecule of life

3

4 Mutation is

5 Frequency

Slide 2 of 35 Office Theme

DNA the molecule of life

Trillions of cells

Each cell:

- 46 human chromosomes
- 2 meters of DNA
- 3 billion DNA subunits (the bases: A, T, C, G)
- Approximately 30,000 genes code for proteins that perform most life functions

chromosomes

cell

gene

DNA

protein

codon

Mutation is a permanent change in the base of deoxyribose nucleotide

protein

biochemistry bds

PARTICIPANTS VIDEO TILES


















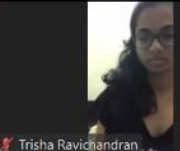







Recording...

Remaining Meeting Time: 08:11

 Akshitha Madhvaraj	 Siddhartha Siva	 biochemistry bds	 Subashree Renganathan	 Bhuvanesh G
 Sushurutha ananthan	 Narmadha Srinivasan	 Haripriya V	 Anumithra Saravanan	 Keerthana Sudhakar
 Lokesh	 Jane Cardilia	 Aarori Philip	 Harini Saravanan	 Lakshikhaa Shri Vengatac
 Varun Krishna	 prithega m	 Aravind Selvamani	 Deepthishri Senthilkumar	 NIRUVINDA S
 Priya Dharshini	 Sreya Bonthala	 Aishwarya Saravanan	 arun prasad	 Zenitha Paramashivam























Recording...

























Remaining Meeting Time: 07:53









































































 Preethika Rengabashyam	 Astalakshmi P	 Kaviya	 Aravind Rajesh	 Divya Mohan
 Gunali G.V	 RAM SHWASTHIKA	 Mary Pon Anusha G	 samyuktha bala	 Pooja Theenathavalan
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 Vishnusri V	 sri vaishna	 Trisha Ravichandran	 Akash J	 Durga Suresh
 Niranjan Kumar	 Avanthika radhakrishnan	 Nandhini R	 Surya gayathri	 Vignesh Mani KU

Participants (97)

Q Search

	Niranjana Kumar (me)			
	biochemistry bds (Host)			
	Aaron Philip			
	Siddhartha Siva			
	Akshaya Hogwarts			
	Akshitha Madhvaraj			
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	Anumithra Saravanan		
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Chettinad

Dental College & Research Institute



Nicky chandrasekaran



NIRUVINDA S



Nithyashree.R



NOWFIYA FATHIMA



PK



Pooja Theenathayalan






















Pravin Rajendran



Preethika Rengabashyam





















PM	prithega m		
PD	Priya Dharshini		
	Priyanka R		
	Pujaa Ramesh		
	Rahul Vishwanath		
R	RAM SHWASTHIKA		
R	Ramith Samuel		
SK	Saarah Khan		



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	Siddhartha Siva			
	SNEHA S N			
	Sreya Bonthala			
	Sri Sindhu			



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SD	Subhashree Dhanaraj		
SG	Surya gayathri		
	Sushurutha ananthan		
TV	TANVI V SHUKLA		
TD	Thanushree Duraisami		



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VN	Vaish Navi		
VK	Varun Krishna		
VM	Vignesh Mani KU		
W	Vishnusri V		
YR	Yuvashree Ravishankar		
Z	Zenitha Paramashivam	