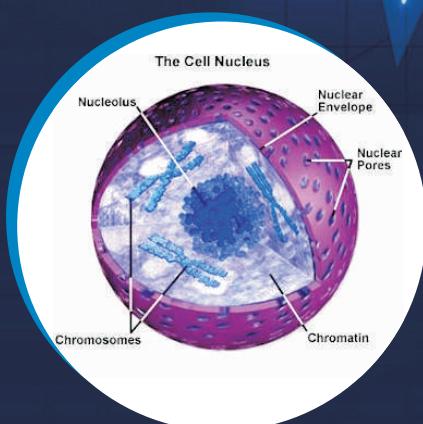


# **Textbook of Allied Health Sciences (Biochemistry)**

## **I Semester**



### **Authors**

**Ms. M. Mahalakshmi**  
**Ms. V.P. Nivedhini**  
**Mr. E. Vasudevan**  
**Dr. K. Sumathi**  
**Dr. Chaganti Sridevi**  
**Dr. B. Shanthi**  
**Dr. V.S. Kalai Selvi**  
**Dr. A. Mary Chandrika**  
**Dr. S. Shenbagalalitha**

*Published by*



**Sree Balaji Medical College & Hospital**

**Bharath Institute of Higher Education & Research (BIHER)**

Chromepet, Chennai - 600044, Tamilnadu, India



# **Textbook of Allied Health Sciences**

## **(Biochemistry)**

### **I Semester**

#### *Authors*

**Ms. M. Mahalakshmi**

**Ms. V.P. Nivedhini**

**Mr. E. Vasudevan**

**Dr. K. Sumathi**

**Dr. Chaganti Sridevi**

**Dr. B. Shanthi**

**Dr. V.S. Kalai Selvi**

**Dr. A. Mary Chandrika**

**Dr. S. Shenbagalalitha**

#### *Published by*

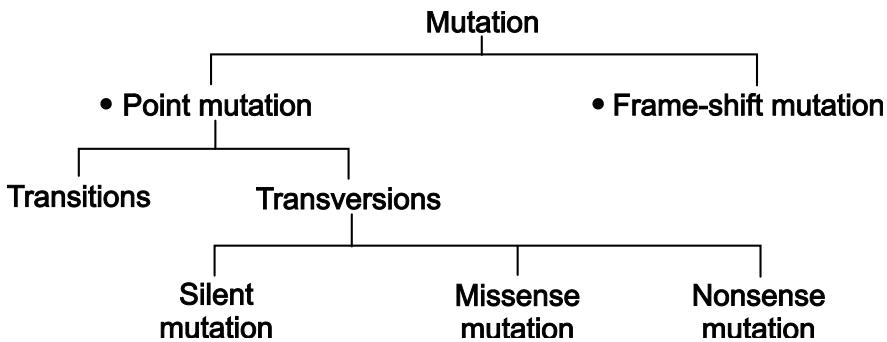


**Sree Balaji Medical College & Hospital  
Bharath Institute of Higher Education & Research (BIHER)  
Chromepet, Chennai - 600044, Tamilnadu, India**

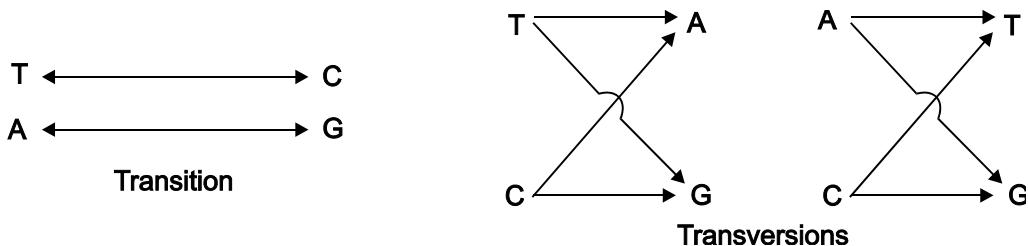


### 6.1.5 Mutation

- Change in the sequence of nucleotides either in one strands or both.
- Induced by mutagens □ chemicals, radiations, viruses.



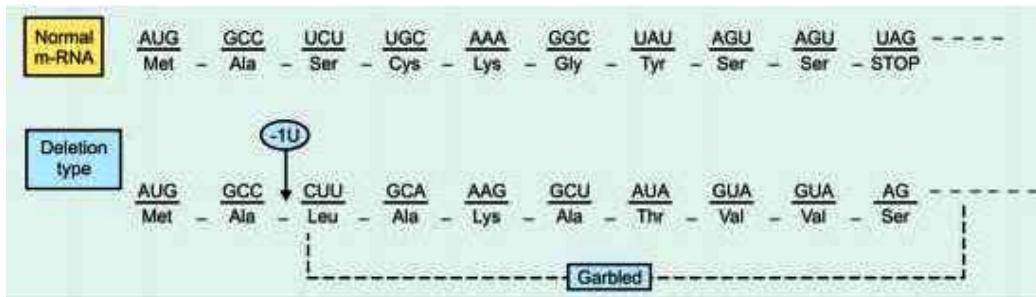
- POINT MUTATION – replacement or change in a single base NT.



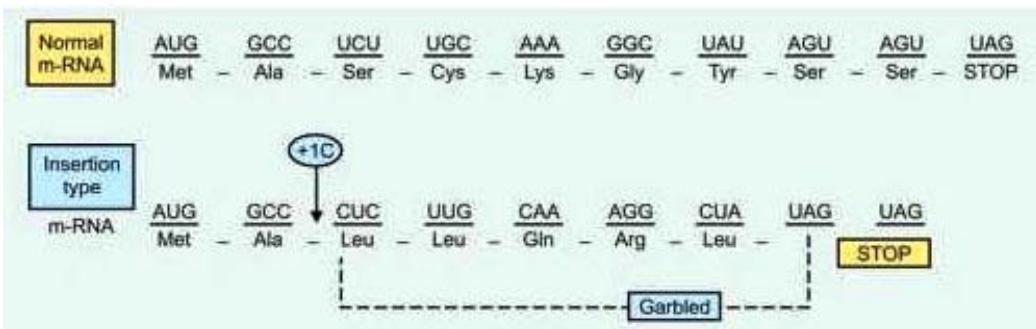
<b>SILENT MUTATION</b>	<ul style="list-style-type: none"><li>• Nodetec Table Change</li><li>• UCU code for serine. Mutation in the 3<sup>rd</sup> base (U⇒A) still codes serine.</li></ul>
<b>MISSENSE MUTATION</b>	<ul style="list-style-type: none"><li>• Replacement of an aminoacid in a specific protein</li><li>• Acceptable, partially acceptable or unacceptable</li></ul>
<b>NONSENSE MUTATION</b>	<ul style="list-style-type: none"><li>• Alteration of all the 3 bases</li><li>• Acts as stop signal resulting in non-functioning protein molecule.</li></ul>

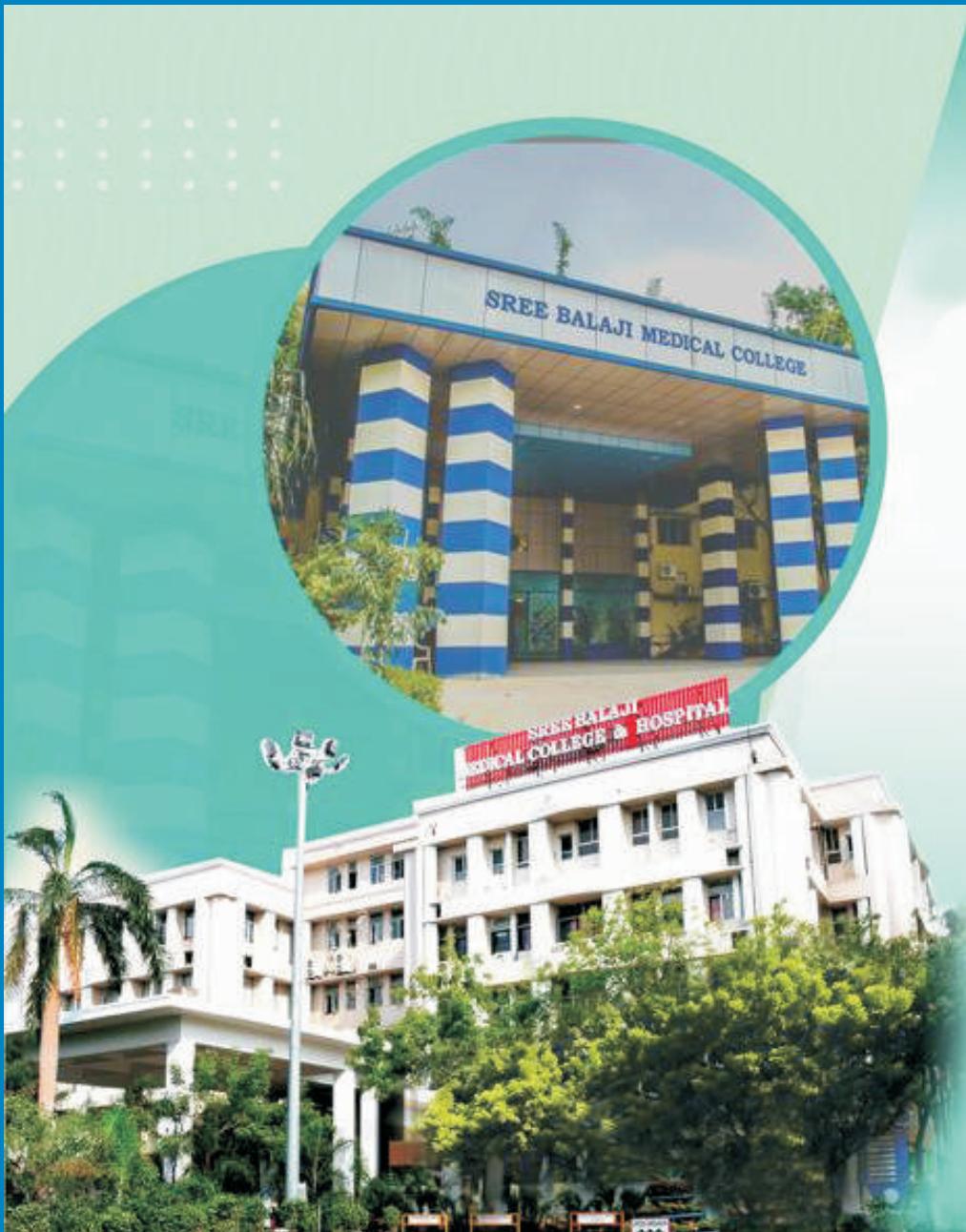
## Frame shift Mutation

### Deletion



### Insertion





## Sree Balaji Medical College & Hospital

*Typeset & Printed by*

**Aksharaa Muthra Aalayam Pvt., Ltd.,**

No.441/303, Anna Salai, Teynampet, Chennai-18. Tamilnadu, India

Ph. 044 - 45080083. Cell: 9282134542

E-mail: murali.aks@gmail.com

ISBN: 978-93-94609-16-7

A standard linear barcode representing the ISBN number 978-93-94609-16-7.