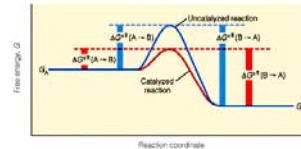


LECTURE TOPICS

BS106, Biochemistry II - Metabolism
 Time: Tuesday, 11.30 am – 13.20 pm
 Room: CR1

This course deals with the basic principles, pathways and regulation of metabolism required to understand modern biological sciences. The lectures will cover introduction to enzymes and enzyme catalysis, carbohydrate metabolism, citric acid cycle, oxidative phosphorylation, photosynthesis, lipid metabolism, amino acid metabolism, and nucleotide metabolism.

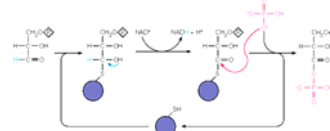
25/01/11 **Metabolism: An overview**



A/Prof. G. Grüber



01/02/11 **Enzyme inhibition kinetics and glycolysis**



Prof. S. Bose

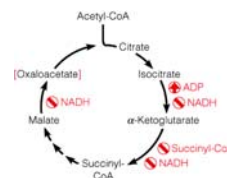


08/02/11 **Glycogen metabolism**



Prof. S. Bose

15/02/11 **Tricarboxylic Acid (TCA) cycle**



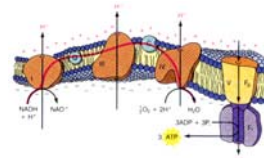
A/Prof. G. Grüber

22/02/11 **Other pathways of carbohydrate metabolism**



A/Prof. G. Grüber

01/03/11 **Electron transport and oxidative phosphorylation**



A/Prof. G. Grüber

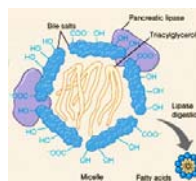
08/03/11 **Photosynthesis**



A/Prof. G. Grüber

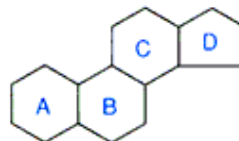
22/03/11 **Lipid metabolism**

A/Prof. G. Grüber



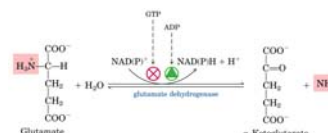
29/03/11 **Metabolism of steroids, isoprenoids and glycolipids**

A/Prof. G. Grüber



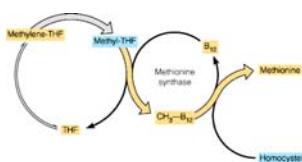
05/04/11 **Amino acid metabolism I**

Prof. S. Bose



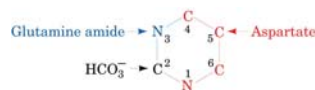
12/04/11 **Amino acid metabolism II**

Prof. S. Bose



19/04/11 **Nucleic acid metabolism**

A/Prof. G. Grüber



26/04/11 **Biochemistry II – Metabolism: Revision**

A/Prof. G. Grüber

Recommended textbooks for the students:

1. Voet & Voet: Biochemistry – 3rd edition, John Wiley & Sons
2. Mathews, van Holde, Ahern: Biochemistry – 3rd edition
3. Berg, Tymoczko & Stryer: Biochemistry – 5th edition, Spectrum
4. Horton, Moran, Scrimgeour, Perry & Rawn: Principles of Biochemistry - 4th edition

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TUTORIALS

BS106, Biochemistry II - Metabolism

Tuesday, 8.30 pm – 9.20 am (T1 (CR2) and T2 (CR3))

Tuesday, 9.30 pm – 10.20 am (T3 (CR4) and T4 (CR5))

01/02/11	Enzyme catalysis and regulation	T1	Dr. A. B. Manikkoth
		T2	Dr. S. M. Malathy Sony
		T3	Dr. A. B. Manikkoth
		T4	Dr. S. M. Malathy Sony
08/02/11	Glycolysis	T1	Dr. G. Biuković
		T2	Dr. C. Hunke
		T3	Dr. G. Biuković
		T4	Dr. C. Hunke
15/02/11	Glycogen metabolism	T1	Dr. G. Biuković
		T2	Dr. C. Hunke
		T3	Dr. G. Biuković
		T4	Dr. C. Hunke
22/02/11	Tricarboxylic Acid (TCA) cycle	T1	A/Prof. G. Grüber
		T2	S. Basak
		T3	A/Prof. G. Grüber
		T4	S. Basak
01/03/11	Other pathways of carbohydrate metabolism	T1	A/Prof. G. Grüber
		T2	V. S. Tadwal
		T3	A/Prof. G. Grüber
		T4	V. S. Tadwal
08/03/11	Electron transport and oxidative phosphorylation	T1	A/Prof. G. Grüber
		T2	V. S. Tadwal
		T3	A/Prof. G. Grüber
		T4	V. S. Tadwal
22/03/11	Photosynthesis	T1	A/Prof. G. Grüber
		T2	S. Rishikesan
		T3	A/Prof. G. Grüber
		T4	S. Rishikesan
29/03/11	Lipid metabolism	T1	A/Prof. G. Grüber
		T2	S. Rishikesan
		T3	A/Prof. G. Grüber
		T4	S. Rishikesan
05/04/11	Metabolism of steroids, isoprenoids and glycolipids	T1	S. Basak
		T2	Dr. A. B. Manikkoth
		T3	S. Basak
		T4	Dr. A. B. Manikkoth

12/04/11 **Amino acid metabolism I**

T1 P. Dip
T2 R. Priya
T3 P. Dip
T4 R. Priya

19/04/11 **Amino acid metabolism II**

T1 R. Priya
T2 P. Dip
T3 R. Priya
T4 P. Dip

26/04/11 **Nucleic acid metabolism**

T1 Dr. S. M. Malathy Sony
T2 A/Prof. G. Grüber
T3 Dr. S. M. Malathy Sony
T4 A/Prof. G. Grüber