HINDI MAHAVIDYALAYA

(AUTONOMOUS & NAAC RE-ACCREDITED)
(Affiliated to Osmania University)
Nallakunta, Hyderabad

B.Sc. II YEAR
SEMESTER III &IV
DEPARTMENT OF BIOCHEMISTRY
(2021-2022)

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
DEPARTMENT OF BIOCHEMISTRY

Chairperson

Miss. G.Lahari

Head-Department of Biochemistry

Hindi Mahavidyalaya

Nallakunta, Hyderabad.

University Nominee

Dr. B. Manjula

Assistant Professor

Department of Biochemistry

Osmania University, Hyderbad

Members of BOS

1.Dr. SaiPadma

Head and Assistant Professor

Department of Biochemistry

Bhavan's Vivekananda college of Science Humanities and Commerce,

Hyderabad

2. Dr. Ravikiran Surapeddi

Head-Department of Biochemistry

Aurora Degree & PG College, Chikkadpally, Hyderabad

Chairperson **University Nominee** **Members**

Lahari

Department of BioChemistry
Hindi Mahavidyalaya
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Nallakunta, Hyderabad

8/11/21

CHAIRMAN
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Osmania University,
Hyderabad - 500 007.

1. A. Sai Padma
Head, Dept. of Bio-Chemistry
Bhavan's Vivekananda College
Sainikpuri, Secunderabad-500 094

PRINCIPAL
HINDI MAHA VIDYALA
(AUTONOMOUS)
Arts, Commerce & Scie
Nallakunta, Hyderabad

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

COMPOSITION OF THE BOARD OF STUDIES IN AN AUTONOMOUS COLLEGE

I. Composition: Department of Biochemistry

1. Head of the Department concerned (Chairman)
   G. Lahari, Head-Department of Biochemistry
2. The entire faculty of each specialization
   1. G. Lahari
3. One expert to be nominated by the Vice Chancellor from a panel of six recommended by the College Principal
   1. Dr. B. Manjula, Chairperson, BOS, Dept. of Biochemistry, Osmania University, Hyderabad.
4. Experts on the subject from outside the college to be nominated by the Academic Council.
   1. Dr.Sai Padma, Head and Assistant professor, Department of Biochemistry Bhavan's Vivekananda college, Hyderabad.
   2. Dr.Ravi Kiran, Head, Department of Biochemistry, Aurora Degree and PG college, Hyderabad.
   3. Mrs K. Sumana Yadagiri, Assistant professor & Government City College ,Nayapul, Hyderabad.
5. One postgraduate meritorious alumnus to be nominated by the Principal. The Chairman, Board of Studies, may with the approval of the Principal of the College.
   1. MEGHAMSH TEJA – MSc BIOCHEMISTRY – qualified CSIR JRF
   2. L. SAI VAISHNAVI- MSc BIOHEMISTRY.

(a) Experts from outside the College whenever special courses of studies are to be formulated. -To be nominated.

(b) Other members of staff of the same faculty.
Mrs. G. Ranganayaki

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
DEPARTMENT OF BIOCHEMISTRY
AGENDA OF THE MEETING

4.1 Welcome address by the chair.

4.2 Previous Meeting Details.

4.3 Details of choice based credit system.

4.4 Discussion and Distribution of Common Core Syllabus for all the Semesters (III and IV)

4.5 Marks allotted for internal and end semester exams.

4.6 Discussion on Pattern and model paper of Semester Exam and internal exam for all the Semesters (III and IV)

4.7 Discussion on Practical exam model paper for all the Semesters (III and IV)

4.8 Panel of Examiners

4.9 Any other matter

4.10 Vote of thanks

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
DEPARTMENT OF BIOCHEMISTRY
BOARD OF STUDIES
Academic Year – 2021-2022
Minutes of BOS Meeting

BOS meeting of the Department of Biochemistry was held on .....
The following members were present

Dr. B. Manjula	-	University Nominee
G. Lahari	-	Chair person
Dr. Sai Padma	-	Member of BOS
Dr.Ravi Kiran	-	Member of BOS

1.1 Welcome address by the chair

The chair welcomed the University Nominee, Chairperson BOS, O.U. Department of Biochemistry and Members of B.O.S.

1.2 Previous Meeting details

The CBCS system has been introduced by Osmania University from 2016-17. The theory and practical syllabus of I, II & III years of B.Sc., question paper pattern for theory and practical, internal assessment pattern, practical examination scheme and panel of examiners were discussed and approved by all the BOS Members in previous BOS meeting.

1.3 Details of choice based credit system.

Members were informed that TSCHE has referred that from the academic year 2016-17 autonomous institutions have to follow CBCS i.e. From the Academic Year 2016-17 Osmania University has instructed all the Degree colleges including Autonomous Degree colleges to follow CBCS under which after passing the exam student will get the Grade in the Final Result.

1.4 Discussion and Distribution of Common Core Syllabus for semesters III and IV.

i. Members were informed by the chair that Department of Biochemistry, Hindi Mahavidyalaya is following common core syllabus prescribed by Osmania University with few changes for B.Sc. II YEAR in III and IV semesters.

ii. The syllabus comprise of 4 units.

iii. **The following are the changes in the syllabus semester III**
***1. Unit 3 and 4 are made as 1 and 2 units ,and**
***Unit 3- Carbohydrate metabolism, Unit 4- lipid metabolism**

Practicals:
***4 practicals have been replaced with**
1. **Isolation of cholesterol from egg yolk**
2. **Estimation of total cholesterol**
3. **Isolation of starch from potato**
4. **Glycosylated hemoglobin**

The following are the changes in the syllabus in semester IV
***Unit 3 and 4 are made as 1 and 2 units**
***Unit 3 Bioenergetics ,Unit 4- Biological Oxidation**
Practicals:
***5 practicals have been replaced with**
1. **Drawing of blood sample from Median cubital veins of upper limb**
2. **Estimation of blood urea**
3. **Estimation of hemoglobin in blood**
4. **Estimation of uric acid**
5. **Determination of blood clotting time**

iv. Syllabus copy for both the semesters is enclosed.
v. Syllabus was approved by the Members of BOS.

1.5 Marks allotted for Internal and end Semester exams.

1. Internal assessment is of 30 marks in which 20 marks are for online test, where students have to answer 20 MCQs in 25 minutes. Each question carries 1 mark. In each Semester two online tests of 20 Marks will be conducted and an average of both the tests will be added in the marks of theory exam.
2. Theory Question paper is of 70 marks.
3. Total allotted marks are 70 for each theory paper (III & IV).

The distribution of marks was approved by the Members of BOS.

1.6 Discussion on Pattern and Model Paper of Semester exam and Model Paper of Internal Exam

1. It was informed by the department that in each Semester Two Online tests will be conducted for DSC of 20 marks. The continuous internal assessment will have three sections.

Section – A 20 multiple choice questions each carries 1 mark (20 x 1 =20M),
Section – B Assignment – 5 Marks
Section – C Seminar – 5 Marks

Average of marks of these two online tests will be taken.

2. Semester exam will be conducted as per the Almanac which will be provided by the exam branch. Internal exam duration will be 30 Min and Semester exam duration will be of 21/2 hrs.

3. Model Question paper for Semester III and Semester IV was discussed. Theory paper for each Semester will have 2 sections.

i) Section A contains 8 short Questions. The student has to answer six questions.

Each Question carries 3 Marks (6X3=18 Marks)

ii) Section B contains 4 Essay type Questions with internal choice. Each Question carries 13 Marks (4X13=52 Marks)

1.7 Discussion on Practical Exam Model paper.

- It is decided that the practical examinations held for B.Sc second year (Semester III& IV) from the academic year 2021-22 onwards will have the pattern of 25 marks scheme and the credits will remain the same i.e. 1 credit. The duration of the exam will be 3 hours.
- Pattern of Model Practical Question Papers for Paper III and Paper IV are enclosed.
- Pattern of Model Practical Question Papers was approved by Members of BOS

1.8 Panel of Examiners

The panc! of examiners was approved by the members.

- List is enclosed

1.9 Any other matter.

2.0 Vote of Thanks

Meeting concluded with the Vote of Thanks by G. Lahari.

Chairperson	University Nominee	Members	Principal
lahari Department of BioChemistry Hindi Mahavidyalaya AUTONOMOUS & NAAC REACCREDITED Hyderabad-44	8/11/21 CHAIRMAN Board of Studies in Biochemistry Osmania University, Hyderabad - 500 007.	Head, Dept. of Biochemistry Bhavan's Vivekananda College Sainikpuri, Secunderabad-500 094	PRINCIPAL HINDI MAHAVIDYALAYA (AUTONOMOUS) Arts Commerce & Nallakunta, Hyder

HINDI MAHAVIDYALAYA

(AUTONOMOUS)

Affiliated to Osmania University, Nallakunta, Hyderabad-44

CBCS STRUCTURE FOR 2020-2021 BATCH

B.Sc- BIOCHEMISTRY, MICROBIOLOGY, CHEMISTRY

ACADEMIC YEAR 2020-2021

SECOND YEAR SEMESTER - III					Semester End Exam		Continuous Internal Evaluation	Total		Practical 3 hours
Code	Course Title	Course Type	HPW	Credits	Duration in Hours	Marks	Exam Duration	Marks		
BS301	SEC - 1	SEC-1	2	2	1 1/2	35	20 min.	15	50	
BS302	SEC- 2	SEC-2	2	2	1 1/2	35	20 min	15	50	
BS303	English-III	CC-1C	4 3	4 3	2 1/2	70	30 min.	30	100	
BS304	Second Language-III	CC-2C	4 3	4 3	2 1/2	70	30 min.	30	100	
BS305	**Biochemistry –III – Enzymology,Carbohydrate and Lipid Metabolism**	**DSC-1C**	**4T+3P=7**	**4+1=5**	**2 1/2**	**70**	**30 min**	**30**	**100**	**25**
BS306	Microbiology III	DSC-2C	4T+3P=7	4+1=5	2 1/2	70	30 min	30	100	25
BS307	Chemistry-III	DSC-3C	4T+3P=7	4+1=5	2 1/2	70	30 min	30	100	25
			33	27		425		175	675	

25

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Department of Biochemistry
Hindi Mahavidyalaya
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Hyderabad

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Sainikpuri, Secunderabad-500 094

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Arts, Commerce & Science
Nallakunta, Hyderabad-44

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc. II Year Semester – III
Biochemistry Paper III – ENZYMOLOGY, CARBOHYDRATE AND LIPID METABOLISM

Code BS305	**DSC –IC**
Instruction	
Theory Classes	**4 Hrs/Week**
Practical Classes	**2Hrs/Week**
Credit for Theory	**4**
Credit for Practical	**1**
Duration of Semester Examination	**2 ½ hours**
Duration of Internal Examination	**25 minutes**
Semester Examination Marks	**70 Marks**
Internal Marks	**30 Marks**

Unit Name	TOPICS	HOURS PER U
1.Introduction to Enzymology	1. Introduction to biocatalysts differences between chemical and biological catalysis. 2. Principles of energy of activation, transition state 3. Nomenclature and classification of enzymes. 4. Definition of holo-enzyme, Apo-enzyme, coenzyme, cofactor, Fundamentals of enzyme assay). Enzyme units. 5. Enzyme specificity. Active site. 6. Interaction between enzyme and substrate- lock and key, induced fit models. 7. Methods of Enzyme purification	**15 hours**
2. Enzyme Kinetics and Enzyme action	1.Rate of a Reaction-Law of Mass action ,Factors affecting the catalysis-substrate concentration, pH, temperature, Time, Enzyme concentration and Product concentration 2. Michaelis-Menten equation for single substrate reaction, significance of K" and V 3. Enzyme inhibition-irreversible and reversible, types of reversible inhibitions-competitive and non-competitive. 4. Outline of mechanism of enzyme action-acid-base catalysis, covalent catalysis, electrostatic catalysis, and metal ion catalysis. 5. Regulation of enzyme activity-allosterism and cooperatitvity ,ATCase and allosteric enzyme 6. Zymogen activation-activation of trypsinogen and chymotrypsinogen. 7. Isoenzymes (LDH) and Multi enzyme complexes (PDH). Ribozyme	**15 hours**
3. :Carbohydrate Metabolism	1.Glycolysis, energy yield .Fate of pyruvate-formation of lactate and ethanol 2. Citric acid cycle, regulation, energy yield, amphipathic role. Anaplerotic reactions.	**15 hour**

	3. Glycogenolysis and glycogenesis. 4. Pentose phosphate pathway. 5. Gluconeogenesis. 6. Photosytnthesis- Light and Dark reactions, Calvin cycle and C Pathway, CAM Pathway 7. Metabolic disorders of carbohydrates-Galactosemia and Pentosuria	
4. Lipid metabolism	1. Catabolism of fatty acids(P-oxidation) with even and odd number of carbon ,Ketogenesis 2. Denovo synthesis of fatty acids 3. Elongation of fatty acids in mitochondria and microsomes 4. Biosynthesis and degradation of triacylglycerol 5. Biosynthesis of lecithin. 6. Biosynthesis of cholesterol 7. Metabolic disorders of lipid metabolism-Niemann-pick disease and Fabry's disease	15 hours

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Nallakunta, Hyderabad
Nallakunta, Secunderabad-500 094

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Nallakunta, Hyderabad 44

HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc. II Year Semester – III
Biochemistry Practical paper- III
ENZYMOLOGY, CARBOHYDRATE AND LIPID METABOLISM

1. Assay of β-amylase from sweet potatoes
2. Assay of urease
3. Assay of phosphatase
4. Isolation of cholesterol from egg yolk
5. Estimation of total cholesterol
6. Isolation of starch from potato
7. Glycosylated hemoglobin

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Sainikpuri, Secunderabad-500 094

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Arts, Commerce
Nallakunta, Hyderabad

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Biochemistry - II Year
Semesters–III -Paper –III
Theory Model Question Paper

Time: 2 1/2hrs

Max. Marks: 70

SECTION A

I Write short notes on any Six of the following: 6x3= 18M

Marks

A question from Unit I

1. A question from Unit I
2. A question from Unit II
3. A question from Unit II
4. A question from Unit III
5. A question from Unit III
6. A question from Unit IV
7. A question from Unit IV

SECTION B

II Answer all the Questions. 4 X 13 = 52 Marks

9 (a) A question from Unit I
(OR)
(b) A question from Unit I

10 (a) A question from Unit II
(OR)
(b) A question from Unit II

11 (a) A question from Unit III.
(OR)
(b) A question from Unit III.

12(a)A question from Unit IV
(OR)
(b) A questior from Unit IV

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Biochemistry - IInd Year
Semester – III -Paper – III
Practical Model Question Paper

Time: 3 hrs

Max. Marks: 25

I.	Principle writing	(5 Marks)
II.	Minor experiment	(5 Marks)
III.	Major experiment	(10Marks)
IV.	Viva & Record	(5 Marks)

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CBCS STRUCTURE FOR 2020-2021 BATCH
B.Sc - BIOCHEMISTRY, MICROBIOLOGY, CHEMISTRY
ACADEMIC YEAR 2020-2021

SECOND YEAR SEMESTER – IV					Semester End Exam		Continuous Internal Evaluation		Total	Practical 3 hours
Code	Course Title	Course Type	HPW	Credits	Duration in Hours	Marks	Exam Duration	Marks		
BS401	SEC - 3	SEC – 3	2	2	1 1/2	35	20 min.	15	50	
BS402	SEC - 4	SEC -4	2	2	1 1/2	35	20 min	15	50	
BS403	English-IV	CC-1D	4	4	2 1/2	70	30 min.	30	100	
BS404	Second Language-IV	CC-2D	4	4	2 1/2	70	30 min.	30	100	
BS405	**Bio-chemistry-IV Amino acid, Nucleic acid Metabolism, Bioenergetics and Biological oxidation**	**DSC-1D**	**4T+3P=7**	**4+1=5**	**2 1/2**	**70**	**30 min**	**30**	**100**	**25**
BS406	Microbiology-IV	DSC-2D	4T+3P=7	4+1=5	2 1/2	70	30 min	30	100	25
BS407	Chemistry-IV	DSC-3D	4T+3P=7	4+1=5	2 1/2	70	30 min	30	100	25
			33	27		425		175	675	

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD

(AUTONOMOUS)

B.Sc. II Year Semester – IV

Biochemistry Paper IV – AMINO ACID, NUCLEIC ACID METABOLISM, BIOENERGETICS AND BIOLOGICAL OXIDATION

Code: BS405	DSC –ID
INSTRUCTION	4 Hrs/Week
Theory Classes	2 Hrs/Week
Practical Classes	4
Credit for Theory	1
Credit for Practical	2 ½ hours
Duration of Semester Examination	25 minutes
Duration of Internal Examination	70 Marks
Semester Examination Marks	30 Marks
Internal Marks	

Unit Name	TOPICS	HOURS PER UNIT
1.AMINOACID METABOLISM	1.General reactions of amino acid metabolism-transamination, decarboxylation and deamination 2.Urea cycle and regulation 3. Catabolism of carbon skeleton of amino acids-glycogenic and ketogenic amino acids. 4. Metabolism of glycine, serine, aspartic acid, methionine, phenylalanine and leucine. 5 .Biosynthesis of creatine. 6.Inborn errors of aromatic amino acids 7. Inborn errors of branched chain amino acid metabolism.	
2. Nucleic acid Metabolism	1. Biosynthesis of purine and pyrimidine nucleotides, de novo and salvage pathways. 2. Regulation of purine and pyrimidine nucleotides 3. Catabolism of purines and pyrimidines. 4.Biosynthesis of deoxyribonucleotides- ribonucleotide reductase and thymidylate synthase and their significance. 5. Disorders of nucleotide metabolism- Gout, Lesch - Nyhan syndrome. 6.Biosynthesis of heme 7. Degradation of heme	15 hours
3.Bioenergetics	1. Laws of thermodynamics 2.Energy transformations in the living system 3. Free energy, Enthalpy and Entropy concepts. 4. Exergonic and endergonic reactions. 5.High energy compounds, Substrate level phosphorylation 6. Phosphate group transfer potential. 7.Cytochromes-structure, types and their functions	15 HOURS

4.Biological Oxidations	1. Biological oxidations: Definition, enzymes involved-oxidases, dehydrogenases and oxygenases. 2 .Redox reactions. Redox couplers. Reduction potential (£,£0,£'.). Standard reduction potential (c'o) of some biochemically important half reactions. 3. Ultra structure of mitochondria, Electron transport chain(ETC)and carriers involved. 4. Oxidative phosphorylation, theories of oxidative phosphorylation-Mitchell's chemiosmotic theory.F0F,-ATPase, Inhibitors of ETC and oxidative phosphorylation, uncouplers. 5. Formation of reactive oxygen species and their disposal through enzymatic reactions. 6.Ultra structure and functions of chloroplast 7. Cyclic and non-cyclic photo phosphorylation.	

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc. II Year Semester – IV
Biochemistry Practical Paper IV
AMINO ACID, NUCLEIC ACID METABOLISM

PRACTICALS

1. Isolation of casein from milk
2. Drawing of blood sample from Median Cubital veins of upper limb
3. Estimation of blood urea
4. Estimation of hemoglobin in blood
5. Estimation of uric acid
6. Determination of blood clotting time
7. Absorption maxima of colored substances- p-Nitro phenol, Methyl orange, BSA and DNA

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Biochemistry - II Year
Semesters– IV - Paper – IV
Theory Model Question Paper

Time: 2 1/2hrs

SECTION A

Max. Marks: 70

I Write short notes on any Six of the following:

6 X 3 = 18M

1. A question from Unit I
2. A question from Unit I
3. A question from Unit II
4. A question from Unit II
5. A question from Unit III
6. A question from Unit III
7. A question from Unit IV
8. A question from Unit IV

SECTION B

II Answer all the Questions.

4 X 13 = 52 Marks

9 (a) A question from Unit I
(OR)
(b) A question from Unit I

10 (a) A question from Unit II
(OR)
(b) A question from Unit II .

11 (a) A question from Unit III.
(OR)
(b) A question from Unit III.

12 (a)A question from Unit IV
(OR)
(b) A question from Unit IV.

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)
B.Sc Biochemistry - II Year
Semester – IV - Paper – IV
Practical Model Question Paper

Time: 3 hrs | Max. Marks: 25

Time: 3 hrs | Max. Marks: 25

I.	Principle writing	(5 Marks)
II.	Minor experiment	(5 Marks)
III.	Major experiment	(10Marks)
IV.	Viva & Record	(5 Marks)

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HINDI MAHAVIDYALAYA, NALLAKUNTA, HYDERABAD
(AUTONOMOUS)

B.Sc Biochemistry - IInd Year

Panel of Examiners

S.No.	Name and Designation	Mobile No.
1	Mrs. D.Rajini Department of Biochemistry Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad	9703536015
2	Dr.S.Ravi Kiran Department of Biochemistry Aurora Degree and Pg College, Chikkadpally,Hyderabad	9100000562
3	Ms.G.Bindu Department of Biochemistry Aurora Degree and Pg College, Chikkadpally,Hyderabad	9100000504
4	Ms.C.Vanisree Department of Biochemistry St.Pious X Degree and Pg college,Nacharam,Hyderabad	9703599392
5	Smt.Konda Sumana Yadagiri Assistant professor Department of Biochemistry Govt.City College,Nayapool,Hyderabad	9441201640
6	Dr.Ch.Vidya Assistant professor Department of Biochemistry Govt.City College,Nayapool,Hyderabad	95333926170
7	Smt.R.Shyamala Chandra Assistant professor Department of Biochemistry Kakatiya Govt. Degree College, Hanmakonda, Warangal	8121877262
8	Sri A.Chandrasekhar Assistant professor Department of Biochemistry Govt. Degree College for women Karimnagar,	9963871117

Chairperson University Nominee Members Principal

Head: Dept. of Biochemistry
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