



VIVEKANAND EDUCATION SOCIETY'S
COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai – 400 074
Sindhi Linguistic Minority, Recognized by DTE,
Approved by Pharmacy Council of India & Govt. of Maharashtra, Affiliated to University of Mumbai.
NAAC accredited with A+ Grade (3.46 CGPA)

2.2.1

The institution assesses the learning levels of the students and organizes special programs for advanced learners and slow learners



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Measurable criteria to identify advanced learners and slow learners



Consolidated Sessional Marksheet – Theory

To identify advanced learners and slow learners

VES College of Pharmacy Mumbai

Second Year B Pharmacy SEM IV CBCS Rev 2019 (AY 2023-24) Consolidated Sessional Marksheet – Theory


Sr. No.	Exam No.	Name of Student	Pharmaceutical Organic Chemistry III	Medicinal Chemistry I	Physical Pharmaceutics II	Pharmacology I	Pharmacognosy & Phytochemistry I
93	49324	SHARMA ISHIKA MANOJ	24	30	26	25	22
94	49424	SHETTY ANANYA SHARATH	23	28	24	22	21
95	49524	SHETTY SHRADDHA SHEKHAR	22	22	24	20	19
96	49624	SHIVALKAR CHAITRALI PRASHANT	Absent	0	--	0	A
97	49724	SINGH VEDANT VIVEK	19	18	19	22	15
98	49824	SOLANKI BHUMIKA AMRITLAL	23	26	27	25	23
99	49924	TANDEL SAKSHI ARUN	16	28	22	21	14
100	410024	THORAT POURNIMA SURYAKANT	16	14	21	18	16
101	410124	TIWARI ABHISHEK AKHILESH	26	28	24	24	17
102	410224	TIWARI KHUSHI BIPIN	20	19	27	21	24
103	410324	VARANGE SAYALI RAJESH	25	26	27	18	13
104	410424	WAGHOLE KIMAYA ANIL	25	25	23	20	21
105	410524	WAINGANKAR CHAITRALI GAJANAN	21	21	22	17	16
106	410624	ANSARI SUHAIL NAUSHAD	23	23	19	15	14
107	410724	AROTE SHRAVANI VIJAYKUMAR	17	24	26	19	21
108	410824	ATPADKAR MITALI NANASO	10	11	20	14	10
109	410924	GADHARI ASMITA BHARAT	16	18	24	19	20
110	411024	SAKPAL VRUSHABH NATHURAM	10	14	17	15	16
111	411124	SINGH KIRAN KAMAL	13	22	24	19	16
112	411224	SINGH RITIKA BALIRAM	17	20	24	23	18
113	411324	SUDHAKARAN VARUN SUDHIR	10	4	10	19	13
114	411424	UPADHYAY PREETI ISHNARAYAN	9	19	22	18	16
115	411524	YADAV MUKESH BHULLUR	17	11	11	15	16
No of students >80%			101	102	111	108	104
No of students 60-80%			13	10	2	6	8
No of students 50-60%			2	2	0	3	1
No of students <50%			0	3	1	1	2



Measures to enhance the skills of fast learners


Consolidated data on Aavishkar participation

List of participants as per category



 University of Mumbai
 Department of Students' Development
**18th Inter-Collegiate/Institute/Department Avishkar
 Research Convention**
 AY-2023-24
 College: Vivekanand Education Society College of Pharmacy, Chembur
 (CODE: 11-11)
 Zone: Pharmacy Colleges/Institutes
Consolidated Entry Form-I (for Research Project Fees)

Sr.No	Category	Level	No. of Research Projects	Total No. of Participants	Entry Fees per Research Project	Amount
1	Humanities, Languages and Fine Arts	UG	8	36	100	800
		PG	1	1	100	100
		PPG			100	0
2	Commerce, Management and Law	UG	1	1	100	100
		PG			100	0
		PPG			100	0
3	Pure Sciences	UG	2	4	100	200
		PG	6	7	100	600
		PPG			100	0
4	Agriculture and Animal Husbandry	UG	2	6	100	200
		PG	2	2	100	200
		PPG			100	0
5	Engineering and Technology	UG	1	1	100	100
		PG			100	0
		PPG			100	0
6	Medicine and Pharmacy	UG	8	28	100	800
		PG	8	12	100	800
		PPG	1	1	100	100
Grand Total			40	99		4000

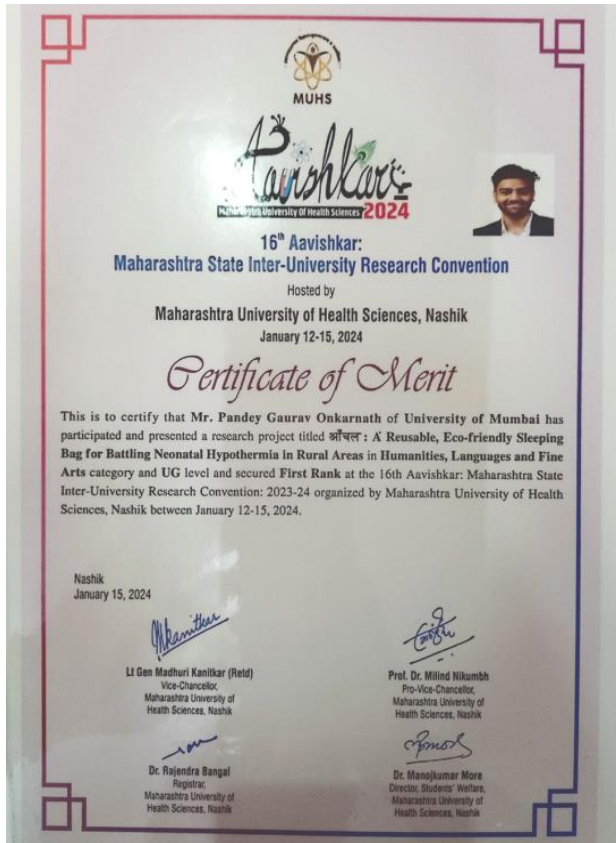
023
ii



S. Tendulkar
 Teacher Co-ordinator
 Date: 07/12/2023
 Place: Chembur


 Principal

Participation Inter-University Research Festival



Aavishkar




Anveshan

Completion of online course

List of students completing online Swayam courses

Sr. No.	Class	Name of the student	Course Title	Date
1	S. Y. B. Pharm	Ms. Yashika Totani	Cell Culture Technologies	15/02/2024
2	S. Y. B. Pharm	Ms. Pauline Pughalraj	Computer Aided Drug Design	15/02/2024
3	L. Y. B. Pharm	Ms. Kshitija Raut	Introductory Organic Chemistry II	28/01/2024
4	L. Y. B. Pharm	Ms. Kshitija Raut	Drug Delivery Principles and Engineering	28/01/2024
5	L. Y. B. Pharm	Mr. Surajkumar Yadav	Ethics Review of Health Research	30/01/2024
6	L. Y. B. Pharm	Mr. Surajkumar Yadav	Scientific Writing in Health Research	30/01/2024
7	L. Y. B. Pharm	Mr. Tarun Savratkar	Ethics Review of Health Research	15/02/2024
8	L. Y. B. Pharm	Mr. Tarun Savratkar	Scientific Writing in Health Research	15/02/2024
9	L. Y. B. Pharm	Ms. Tanaya Adurkar	Ethics Review of Health Research	23/02/2024
10	L. Y. B. Pharm	Ms. Shreya Singh	Scientific Writing in Health Research	23/02/2024
11	L. Y. B. Pharm	Ms. Kashish Jain	Ethics Review of Health Research	02/04/2024
12	L. Y. B. Pharm	Ms. Kashish Jain	Scientific Writing in Health Research	02/04/2024


Representative Course completion Certificate from the list



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

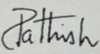


This certificate is awarded to
YASHIKA SUNIL TOTANI
for successfully completing the course
Cell Culture Technologies

with a consolidated score of **68** %

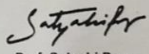
Online Assignments	21.67/25	Proctored Exam	46.5/75
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Total number of candidates certified in this course: 1634




Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Aug-Oct 2023
(8 week course)



Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur




Indian Institute of Technology Kanpur



Roll No: NPTEL23BT68S542301770

To verify the certificate



No. of credits recommended: 2 or 3



Novel and Innovative ways to GPAT and NIPER Preparation

VES COLLEGE OF PHARMACY
Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074



Activity Report A.Y 2023-24

IQAC NUMBER : IQAC/2023-24/CEGC 1

Details of activity:

Name of the Activity	Ways to Crack GPAT and NIPER Entrance Exam		
Day, Date	Friday, 11 th August 2023	Department/ Committee/Faculty	Competitive Exam Guidance Cell
Venue	Seminar Hall Second Floor VES College of Pharmacy	Time	3.00 pm-4.30 pm
Nature of activity	Seminar	Total no. of participants	60

Activity Information:

Objectives	To orient the participants with regards to GPAT/ NIPER preparation
Outcomes	The session was delivered by Mr. Ashtabhuj Shukla from PHARMAELITE. Participants were informed about strategies to prepare and crack GPAT and NIPER Exams.
Details/Minutes	Dr. Nutan Rao introduced Mr. Ashtabhuj Shukla to the participants. Mr. Ashtabhuj Shukla spoke about the following points: Statistics of Results of GPAT, Books to Refer to, How many question papers to be practised, GPAT Previous year Paper Analysis, NIPER Previous year Paper Analysis, Studying Medicinal chemistry, Pharmacology and Pharmacognosy etc in easy manner for GPAT, GPAT Previous year Cut-offs, Strategy required for GPAT/NIPER/ICTMtech/BITS/MANIPAL, Paper Solving Strategy, GPAT Test Series Format. Dr. Nutan Rao thanked Mr. Ashtabhuj Shukla for the informative session.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

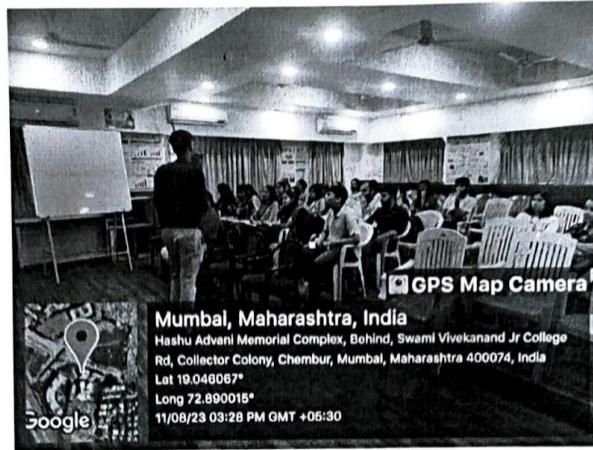
<input checked="" type="checkbox"/>	Notice and communication		Feedback form
<input checked="" type="checkbox"/>	List of Participation		Feedback analysis
<input checked="" type="checkbox"/>	Photos	<input checked="" type="checkbox"/>	Media news details
	Certificate		Any other

Prepared by Dr. Divya Menon <i>Divya Menon</i>	Reviewed by Dr. Nutan Rao <i>Nutan Rao</i>	Approved by Dr. Supriya Shidhaye <i>Supriya Shidhaye</i>
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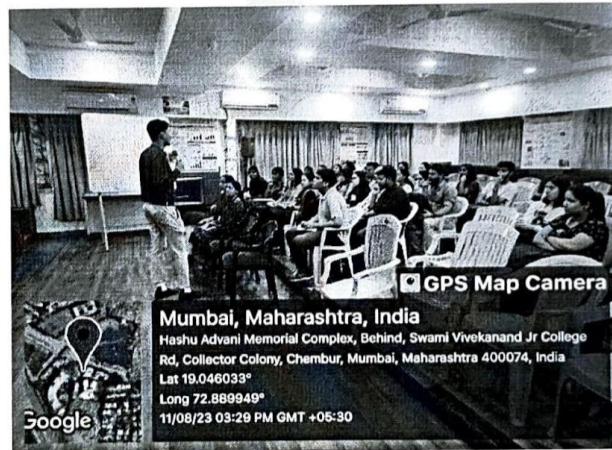


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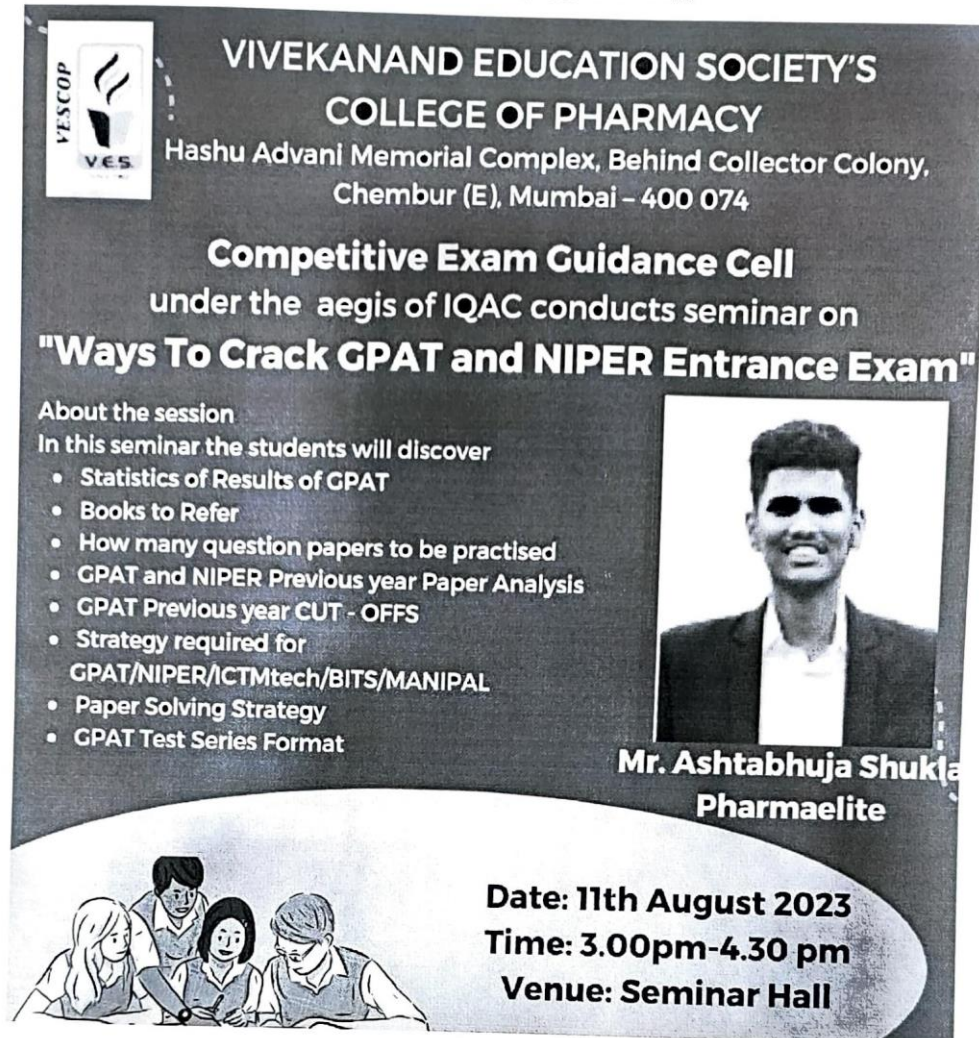
Mumbai, Maharashtra, India
Hashu Advani Memorial Complex, Behind, Swami Vivekanand Jr College
Rd, Collector Colony, Chembur, Mumbai, Maharashtra 400074, India
Lat 19.048087°
Long 72.890015°
11/08/23 03:28 PM GMT +05:30



Mumbai, Maharashtra, India
Hashu Advani Memorial Complex, Behind, Swami Vivekanand Jr College
Rd, Collector Colony, Chembur, Mumbai, Maharashtra 400074, India
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**VIVEKANAND EDUCATION SOCIETY'S
COLLEGE OF PHARMACY**
Hashu Advani Memorial Complex, Behind Collector Colony,
Chembur (E), Mumbai - 400 074


Competitive Exam Guidance Cell
under the aegis of IQAC conducts seminar on
"Ways To Crack GPAT and NIPER Entrance Exam"

About the session
In this seminar the students will discover

- Statistics of Results of GPAT
- Books to Refer
- How many question papers to be practised
- GPAT and NIPER Previous year Paper Analysis
- GPAT Previous year CUT - OFFS
- Strategy required for
GPAT/NIPER/ICTMtech/BITS/MANIPAL
- Paper Solving Strategy
- GPAT Test Series Format



Mr. Ashtabhuja Shukla
Pharmaelite



Date: 11th August 2023
Time: 3.00pm-4.30 pm
Venue: Seminar Hall

Re: Ways To Crack GPAT and NIPER Entrance Exam :- Offline Guest Lecture

External Inbox x



Nutan Rao <nutan.rao@ves.ac.in>

to Pharma, Vaishali, me ▾

Tue, Aug 8, 2023, 10:53 AM ☆ ↶ ⋮

Dear Sir

Kindly send me the introduction and photo of resource person

Regards,

Dr. Nutan Rao

On Tue, 1 Aug 2023, 12:08 Pharma elite, <pharmaelite17@gmail.com> wrote

Respected Nutan Ma'am,

Greetings from PHARMAELITE!!

Hope you are doing well!

We at PHARMAELITE will like to orient the upcoming students of PHARMACEUTICAL INDUSTRY with regards to GPAT/ NIPER preparation. Also please find attached with this e-mail brochure of GPAT PREPARATION for your reference

Duration :- 1 hour 30 min

KEY POINTS of the session :-

- 👉 Statistics of Results of GPAT
- 👉 Books to Refer
- 👉 How many question papers to be practised
- 👉 GPAT Previous year Paper Analysis
- 👉 NIPER Previous year Paper Analysis
- 👉 Eg to Study Medicem, Cology and Cognosy etc in easy manner for GPAT
- 👉 GPAT Previous year CUT - OFFS
- 👉 Strategy required for GPAT/NIPER/ICTMtech/BITS/MANIPAL
- 👉 Paper Solving Strategy
- 👉 GPAT Test Series Format

Requesting you to give the Slot according to your convenience,,!!

Thank you so much for your valuable time and support.

Regards,

TEAM PHARMAELITE

Contact : +91-8433830815 / 8692820106

Training for Excel Calculation

VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

Excel Calculation

Date: 14/07/2023

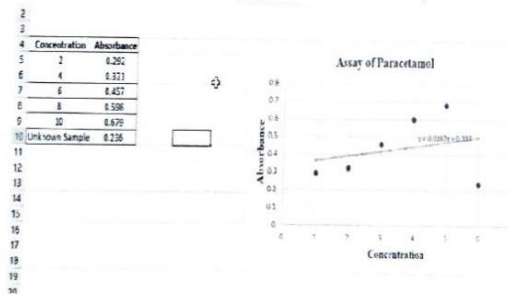
Name of the Speaker: Dr. Anand Chintakrindi



Summary: Microsoft Excel has the basic features of all spreadsheets, using a grid of cells arranged in numbered rows and letter-named columns to organize data manipulations like arithmetic operations. It has a battery of supplied functions to answer statistical, engineering, and financial needs. In addition, it can display data as line graphs, histograms and charts, and with a very limited three-dimensional graphical display.

In this session, a basic understanding of rows, columns, formulae (summation, average, minimum, maximum, count, percentage, multiply, etc.) and excel calculations was provided to the students.

The next part of the session focused on types of graphs and tutorial on plotting the graph. Most commonly used graphs for students include the scatter graphs and the pie chart. The graphs itself has various chart elements like the trendline, error bars, display equation and R square value on the charts which are again commonly used.



Outcome of the session: The session introduced us to various excel tools which will aid us in making graphs and also helps us to arrange data in a proper manner. We also learnt all the basic elements and shortcuts in the Microsoft Excel which will help to save time and improve our efficiency.



Training for Drug Design Software

VES COLLEGE OF PHARMACY
Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

EXPERIMENT NO.: 2	MOLECULAR DOCKING	DATE: 21/07/2023	ROLL NO: 55
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Aim: Performing docking of small molecules in Human Serum albumin

Requirements:

PDB file of the HSA

1. Softwares
 1. Autodock
 2. MGL tool
2. Molecules
 1. Albumin protein
 2. Innate ligand
 3. Drug molecules

Protein binding:

Plasma protein binding (PPB) of drugs is expressed as percentage of total drug that is bound to plasma protein such as albumin. Each protein has its own properties, their concentration in plasma may vary depending on gender, age and health state and they can contribute simultaneously to the binding of the drug. PPB is a reversible association of a drug with the proteins of the plasma due to hydrophobic and electrostatic interactions eg. Van der Waals and hydrogen bonding. The unbound drugs can passively diffuse through the barriers into the organs where they are metabolized, biliary excretion or glomerular filtration in the kidney, and to the sites where they interact with therapeutic targets to produce therapeutic effects. However in vitro and in vivo ADME are relatively expensive in terms of resources, reagents and detection techniques, therefore there is a need for reliable in silico technique to predict PPB.

Docking:

Docking is a computational procedure of searching for an appropriate ligand that fits both energetically and geometrically the protein's binding site. In other words, it is a study of how two or more molecules e.g. ligand and protein, fit together.

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Practice School

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Figure 3 : Validation of docking model: Molecule docked in exact conformation like the co crystallized structure (Molecule in depicted in orange line is co crystallized ligand vs one coloured with atom types)

4. Docking of proposed ligands

The Molecules were docked using Autodock script in the Autodock 4.2 module, using genetic algorithms for pose and conformation prediction. The docking generated 50 poses each and clustered the poses, which were analyzed for interaction and highest scores were recorded and are shown in Table 1 below. Actually there are two possible binding pockets for drugs in Human serum albumin, here only one pocket is studied.

As shown below, The molecules were docked well in the active pocket. All of them aligned well to the innate ligand indicating that they would have the same mechanism of action and same binding site.

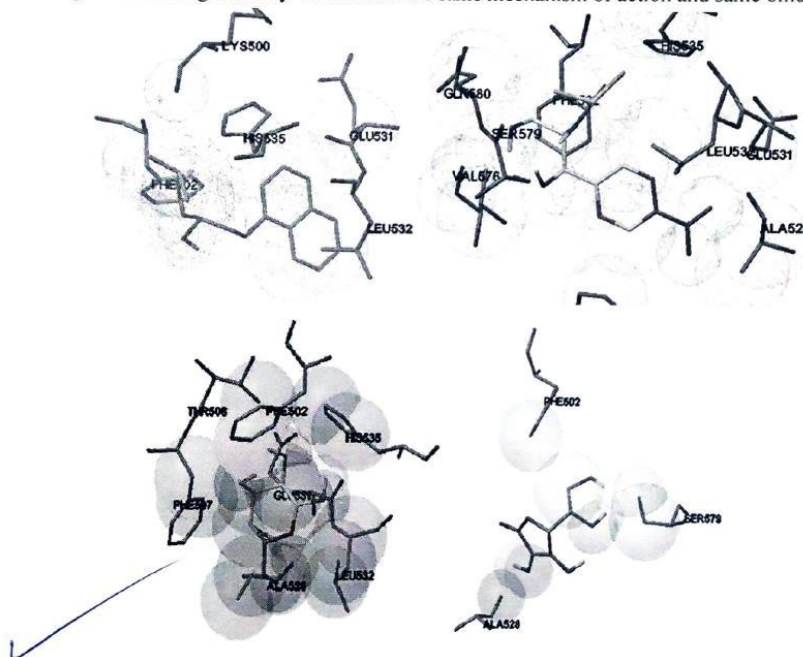


Figure 4 : Best docking poses Molecules in the active pocket (order same as in Table 1)

Inferences and Conclusion:

1. The results from validation are not up to the mark, since the molecule deviated a lot from its actual location in the active pocket, though it can fit itself in the pocket.
2. All the four molecules got docked pretty well in the pocket, though the results will only be qualitative, a direct relationship was observed between the hydrophobicity of molecules with docking score. Polar molecules are bound very weakly.
3. The interaction analysis revealed the absence of any polar interaction between the molecules and HSA.

Dr. Mushtaqe Shaikh



Vidnyan Manch Session

VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

Activity Report A.Y 2023-24

C2C DEPARTMENT/ COMMITTEE/ FACULTY

IQAC ACTIVITY No: IQAC/2023-24/C2C/05

Details of activity:

Name of the Activity	Intranasal Drug Delivery: Approach and Case study	Activity No.	<u>IQAC/2023-24/C2C/05</u>
Day, Date	12/8/23	Department/Committee/Faculty	<u>C2C, Dr. Neha Chhabra, Pharmaceutics</u>
Venue	Seminar hall	Time	10:30 to 12:30
Nature of activity	Indoor/Outdoor (Tick mark appropriate)	Total no. of participants	50

Activity Information:

Objectives	To Showcase the advantages of intranasal drug delivery, such as rapid onset of action, improved bioavailability, and non-invasive administration. Exploring the key approaches in formulating and designing intranasal drug products, including formulation development, delivery device selection, and clinical evaluation. Present Case Studies to provide real-world examples demonstrating the successful application of intranasal drug delivery.
Methodology	Summarize current research and advancements in intranasal drug delivery. Expert Presentations: Feature talks from researchers and clinicians on formulation strategies and case studies. Facilitate Q&A sessions and panel discussions to engage participants and explore practical applications.
Outcomes	Participants gained a comprehensive understanding of the benefits and methodologies of intranasal drug delivery. Attendees connect with experts and peers in the field, fostering collaboration and idea exchange. Real-world case studies and discussions provide actionable insights for applying intranasal delivery in various therapeutic areas.




PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

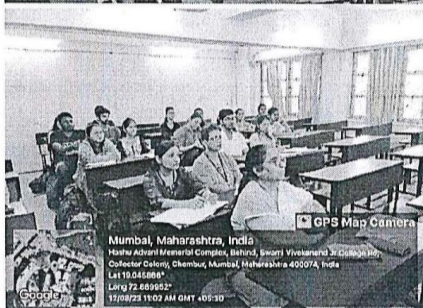
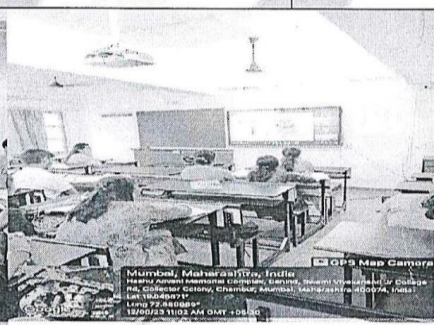
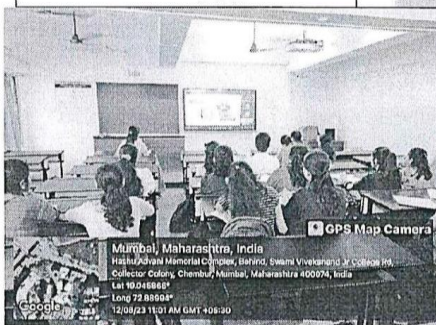
<input checked="" type="checkbox"/>	Notice and communication	<input checked="" type="checkbox"/>	Feedback form
<input checked="" type="checkbox"/>	Student list of participation		Feedback analysis
<input checked="" type="checkbox"/>	Photos		Media news details

VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

Certificate	Any other
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Name & Signature of Coordinator	Name & Signature of Head/Committee In charge	Name & Signature of IQAC Coordinator
		





VIVEKANAND EDUCATION SOCIETY'S
COLLEGE OF PHARMACY

THE C2C UNDER THE AEGIS OF IIIC PRESENTS A
VIDNYANMANCH SESSION ON

INTRANASAL DRUG DELIVERY SYSTEMS:

APPROACH AND CASE STUDY



DATE
SATURDAY 12, AUGUST



TIME
10.15AM TO 12.15PM



VENUE
701, VESCOP



SPEAKER

MR. PRASHANT GIRISH UPADHYAY

Case Study

VES College of Pharmacy

EXPERIMENT 16	Date: 7 3 24
ACTIVITY BEYOND SYLLABUS	

Aim: To analyze any prescription which has 3 or more than 3 drugs for Drug- Drug Interaction (DDI), Price, Indication and dosing parameters.

Methodology:

- Select a prescription having 3 or more than 3 drugs. *Submit the photocopy of the prescription also.*
- Fill the following proforma by studying the prescription.
 - Patient Information:
 - Name (if given):
 - Age:
 - Pathological Condition
 - No. of formulations prescribed:
 - Drug Information:

Sr. No.	Brand Name as prescribed	Active Constituent	Indication of each active constituent	Side Effects	Before Meal/ After Meal	Cost/ tab/ let	Alternate Brands	Schedule Drug or OTC Drug

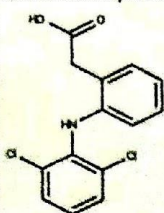
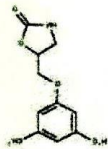
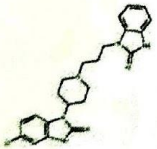
1. Comment on DDI and SE. **RAZO-D**

Razo-D may interact with a blood thinner (Clopidogrel, warfarin), antifungal (ketoconazole, voriconazole, itraconazole, fluconazole, posaconazole), anti-HIV drug (atazanavir, amprenavir, nelfinavir), antacid (magnesium hydroxide), iron supplements, antibiotics (erythromycin, ampicillin), heart medicine (atropine, digoxin, amiodarone), blood pressure-lowering medicine (diltiazem), anti-cancer drug (methotrexate) & anti-nausea pills (aprepitant).

Teacher's Signature



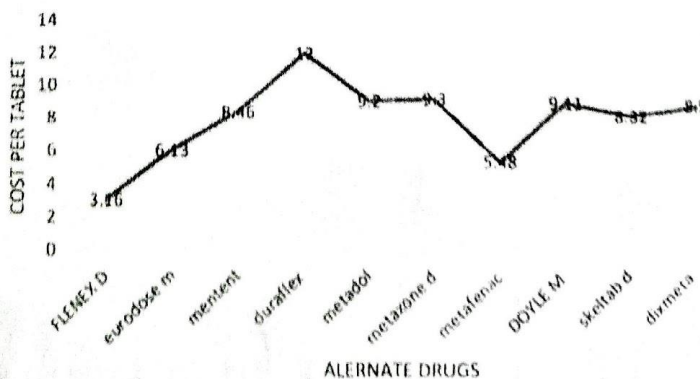
Pharmacology Lab I

BRAND NAME AS PRESCRIBED	ACTIVE CONSTITUENT	INDICATION OF EACH ACTIVE CONSTITUENT	SIDE EFFECTS	BEFORE MEAL / AFTER MEAL	COST	ALTERNATE BRANDS (50mg / 400mg)	SCHEDULE DRUG OR OTC DRUG
FLAMINTA (50mg / 400mg)	1) DICLOFENAC : NSAID'S inhibit cyclooxygenase (CO-X 1 and 2) which are enzyme responsible for producing <u>prostaglandins</u> which contribute to inflammation and pain signalling hence diclofenac is often used as first line therapy for acute and chronic pain and inflammation. 	1) DICLOFENAC : use in the treatment of pain and inflammation from varying sources including inflammatory conditions such as osteoarthritis, rheumatoid arthritis, and ankylosing spondylitis, as well as injury-related inflammation due to surgery and physical trauma	1. Nausea, 2. Vomiting, 3. Stomach pain, 4. Heartburn, 5. Diarrhea, 6. Sleepiness, 7. Loss of appetite.	BEFORE MEAL : Because use of Flaminata Tablet can cause nausea and vomiting. Taking it with milk, food or with antacids can prevent nausea.	14.44 / tablet	1) FLENEX D = 3.16 / tablet 2) METAFENAC = 5.48 / tablet 3) EURODOSE M = 6.13 / tablet 4) SKELTAB -D = 8.32 tablet 5) METENT = 8.46 / tablet 6) DIXMETA = 8.9 / tablet 7) DOYLE M = 9.11 / tablet 8) METADOL = 9.2 / tablet 9) METAXONE D = 9.3 / tablet 10) DURAFLEX = 12 / tablet	Schedule H is a class of prescription drugs in India appearing as an appendix to the Drugs and Cosmetics Rules, 1945 introduced in 1945. These are drugs which cannot be purchased over the counter without the prescription of a qualified doctor. The manufacture and sales of all drugs are covered under the Drugs and Cosmetics Act and Rules.
	2) METAXAOLNE : It is a moderate to strong muscle relaxant used in the symptomatic treatment of musculoskeletal pain caused by strains, sprains, and other musculoskeletal conditions 	2) METAXAOLNE : Metaxalone is a moderate to strong muscle relaxant used in the symptomatic treatment of musculoskeletal pain caused by strains, sprains, and other					
RAZO-D (30 MG/ 20MG)	1) DOMPERIDONE (30 MG) : Domperidone acts as a gastrointestinal emptying (delayed) adjunct and peristaltic stimulant. Domperidone facilitates gastric emptying and decreases small bowel transit time by increasing esophageal and gastric peristalsis and by lowering esophageal sphincter pressure. 	1) DOMPERIDONE (30 MG) : Management of dyspepsia, heartburn, epigastric pain, nausea and vomiting 2) RABEPRAZOLE (20 MG) : Peptic ulcer, gastrointestinal bleeding with NSAID's	1) Dizziness 2) Headache 3) Dizziness 4) Flatulence 5) Nausea 6) Vomiting 7) Constipation 8) Insomnia	AFTER MEAL	21.88 / Tablet	ROWET-D - ₹ 6.04 / tablet RYEBZ -DSR - ₹ 5.58 / tablet ROLANT-D - ₹ 5.37 / tablet ROLANT-D (20mg/30mg) - ₹ 5.34 RABEEN -DSR - ₹ 6.51 / tablet RABEFAM -D - ₹ 6.02 / tablet DRXROBEL -XR - ₹ 7.39 / tablet RABIMOR -DSR - ₹ 1.17 / tablet REDONE - ₹ 4.18 / tablet R ZOLE DSR - ₹ 9.5 /	Schedule H is a class of prescription drugs in India appearing as an appendix in the Drugs and Cosmetics Rules, 1945 introduced in 1945. These are drugs which cannot be purchased over the counter without the prescription of

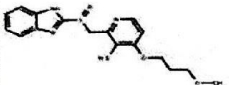
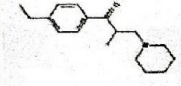
FLAMINTA

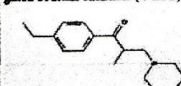
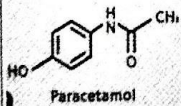
COST COMPARISON OF DIFFERENT DRUGS

drugs	price
FLENEX D	3.16
eurodose	6.13
mentent	8.46
duraflex	12
metadol	9.2
metaxone	9.3
metafena	5.48
DOYLE M	9.11
skeltab d	8.32
dixmeta	8.9



VES College of Pharmacy

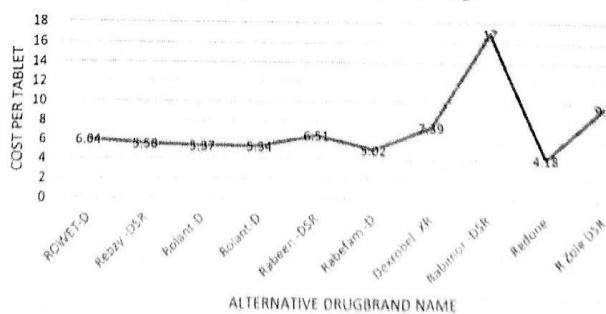
<p>2) RABEPRAZOLE (20 MG): Rabeprazole belongs to a class of benzimidazole proton-pump inhibitors that do not exhibit anticholinergic or histamine H2-receptor antagonist properties, but suppress gastric acid secretion by inhibiting the gastric H⁺K⁺ATPase (hydrogen-potassium adenosine triphosphatase) at the secretory surface of the gastric parietal cell.</p>  <p>1) EPERISONE: Eperisone hydrochloride, a centrally acting muscle relaxant, has shown a potential effect in pain management. Its action mechanism involves inhibition of neural activity and pain sensation by blocking the voltage-gated sodium channels (VGSC) in the brain stem.</p>  <p>2) PARACETAMOL: Paracetamol (acetaminophen) is generally considered to be a weak inhibitor of the synthesis of prostaglandins (PGs). However, the in vivo effects of paracetamol are similar to those of the selective cyclooxygenase-2 (COX-2) inhibitors. Paracetamol also decreases PG concentrations in vivo, but, unlike the selective</p>	<p>1) EPERISONE: Eperisone is a muscle relaxant. It works by acting on the centers in the brain and spinal cord to relieve the muscle stiffness or spasm.</p> <p>2) PARACETAMOL: It is an painkiller</p>	<p>1) Nausea 2) Vomiting 3) Headache 4) Weakness</p> <p>AFTER MEAL</p> <p>10.89/tablet</p>	<p>tablet</p> <p>SKELACT- ₹18.1/tablet EPRISAN- ₹ 9.7/tablet EPRY- ₹ 8.9/tablet ENZORIL- ₹ 4.55/tablet MYOSKEL- ₹ 7.25/tablet MYOTILE- ₹ 32.5/tablet MEUZOSONE- ₹ 19.7/tablet EPIMAC- ₹ 8.8/tablet EPIZOT- ₹ 10 /tablet RELAXONE- ₹ 11/tablet</p>	<p>a qualified doctor. The manufacture and sales of all drugs are covered under the Drugs and Cosmetics Act and Rules.</p> <p>Schedule H is a class of prescription drugs in India appearing as an appendix to the Drugs and Cosmetics Rules, 1945 introduced in 1945. These are drugs which cannot be purchased over the counter without the</p>
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<p>1) EPERISONE: Eperisone hydrochloride, a centrally acting muscle relaxant, has shown a potential effect in pain management. Its action mechanism involves inhibition of neural activity and pain sensation by blocking the voltage-gated sodium channels (VGSC) in the brain stem.</p>  <p>2) PARACETAMOL: Paracetamol (acetaminophen) is generally considered to be a weak inhibitor of the synthesis of prostaglandins (PGs). However, the in vivo effects of paracetamol are similar to those of the selective cyclooxygenase-2 (COX-2) inhibitors. Paracetamol also decreases PG concentrations in vivo, but, unlike the selective COX-2 inhibitors, paracetamol does not suppress the inflammation of rheumatoid arthritis.</p>  <p>Paracetamol</p>	<p>1) EPERISONE: Eperisone is a muscle relaxant. It works by acting on the centers in the brain and spinal cord to relieve the muscle stiffness or spasm.</p> <p>2) PARACETAMOL: It is an painkiller</p>	<p>1) Nausea 2) Vomiting 3) Headache 4) Weakness</p> <p>AFTER MEAL</p> <p>10.89/tablet</p>	<p>SKELACT- ₹18.1/tablet EPRISAN- ₹ 9.7/tablet EPRY- ₹ 8.9/tablet ENZORIL- ₹ 4.55/tablet MYOSKEL- ₹ 7.25/tablet MYOTILE- ₹ 32.5/tablet MEUZOSONE- ₹ 19.7/tablet EPIMAC- ₹ 8.8/tablet EPIZOT- ₹ 10 /tablet RELAXONE- ₹ 11/tablet</p>	<p>Schedule H is a class of prescription drugs in India appearing as an appendix to the Drugs and Cosmetics Rules, 1945 introduced in 1945. These are drugs which cannot be purchased over the counter without the prescription of a qualified doctor.</p>
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RAZO - D

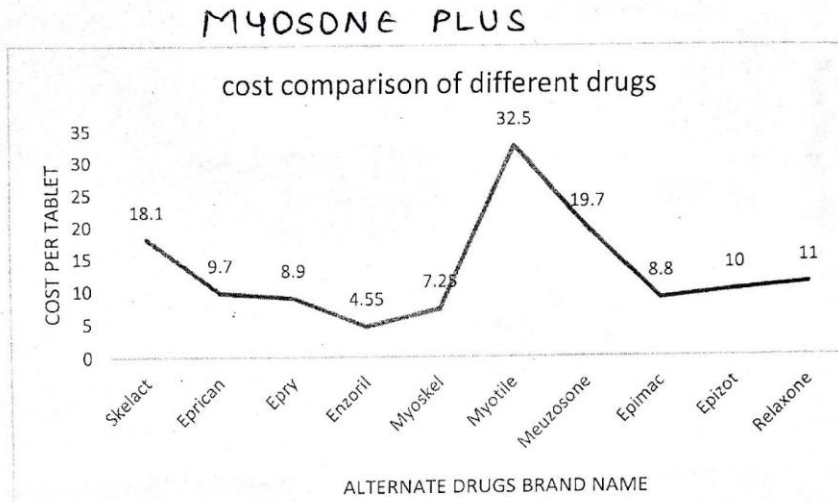
drugs	price
ROWET-D	6.04
Rebzy -DSR	5.58
Rolant-D	5.37
Rolant-D	5.34
Rabeen -DSR	6.51
Rabefam -D	5.02
Dexrobel -XR	7.39
Rabimor -DSR	17
Redone	4.18
R Zole DSR	9.5

cost comparison of different drugs





DRUGS	PRICE
Skelact	18.1
Eprican	9.7
Epry	8.9
Enzoril	4.55
Myoskel	7.25
Myotile	32.5
Meuzosone	19.7
Epimac	8.8
Epizot	10
Relaxone	11





Measures taken to support the slow learners

Quiz, assignment, revision Log Book

TOPIC COVERED REPORT

ATTENDANCE SESSION : ODD SEM 23-24

FROM DATE : 01/07/2023

COURSE NAME : SECOND YEAR BACHELOR OF PHARMACY SEMESTER III

TO DATE : 31/12/2023

SEMESTER II

Sr. No.	Date	Time Slot	Subject Name	Topic Covered	Class Type	Section	Name Of Course Coordinator	Sign
54	31/08/2023	8:30AM-12:30PM	PHARMACEUTICAL MICROBIOLOGY - PRACTICAL	Gram staining, negative staining and acid fast staining	Regular	B DIV	DIVYA HARISHKUMAR MENON	
55	31/08/2023	8:30AM-12:30PM	PHARMACEUTICAL ORGANIC CHEMISTRY II PRACTICAL	ethyl benzoate hydrolysis and p bromosuccinylide.	Regular	B DIV	SONALI MUNI	
56	31/08/2023	2:45PM-3:45PM	PHYSICAL PHARMACEUTICS I - THEORY		Regular	B DIV	RESHMA PRAGHANT PORE	
57	01/09/2023	9:30AM-10:30AM	PHARMACEUTICAL ENGINEERING THEORY	Size separation: Objectives, applications, official standards of powders, sieves	Regular	B DIV	A.PARNA PALSHEKAR	
58	01/09/2023	10:30AM-11:30AM	PHYSICAL PHARMACEUTICS I THEORY		Regular	B DIV	RESHMA PRAGHANT PORE	
59	01/09/2023	1:00PM-2:00PM	PHARMACEUTICAL ORGANIC CHEMISTRY II THEORY	Quiz, Assignment, Problems, revision doubts, Question bank	Extra	B DIV	MUSTAFA, Shaikh	
60	01/09/2023	1:15PM-2:15PM	PHARMACEUTICAL ENGINEERING THEORY	corrosion	Regular	B DIV	RESHMA NINAD TENDULKAR	



Sharing of Question bank

11:01 AM

HDT QB for entire syllabus, all units - reshma.pore@ves.ac.in - Welcome to Vivekanand Education Society Mail



tybpharm2023@ves.ac.in



HDT QB for entire syllabus, all units Inbox × Updates ×



Reshma Pore <reshma.pore@ves.ac.in>
to tybpharm2023, Keyur, smruthi.menon

Dear all,
PFA QB for the entire syllabus of HDT. pls note this is **ONLY FOR REFERENCE**.

You can refer to it for **my part of MCQs** this time.

All the best!

—

Thanks and Regards,
Dr. Reshma P. Pore
Assistant Professor
Vivekanand Education Society's College of Pharmacy,
Hashu Advani Memorial Complex,
Behind Collector Colony,
Chembur (E) Mumbai 400 074
Website: <https://vespharmacy.ves.ac.in/>
Phone: 9869015142
Email: reshma.pore@ves.ac.in
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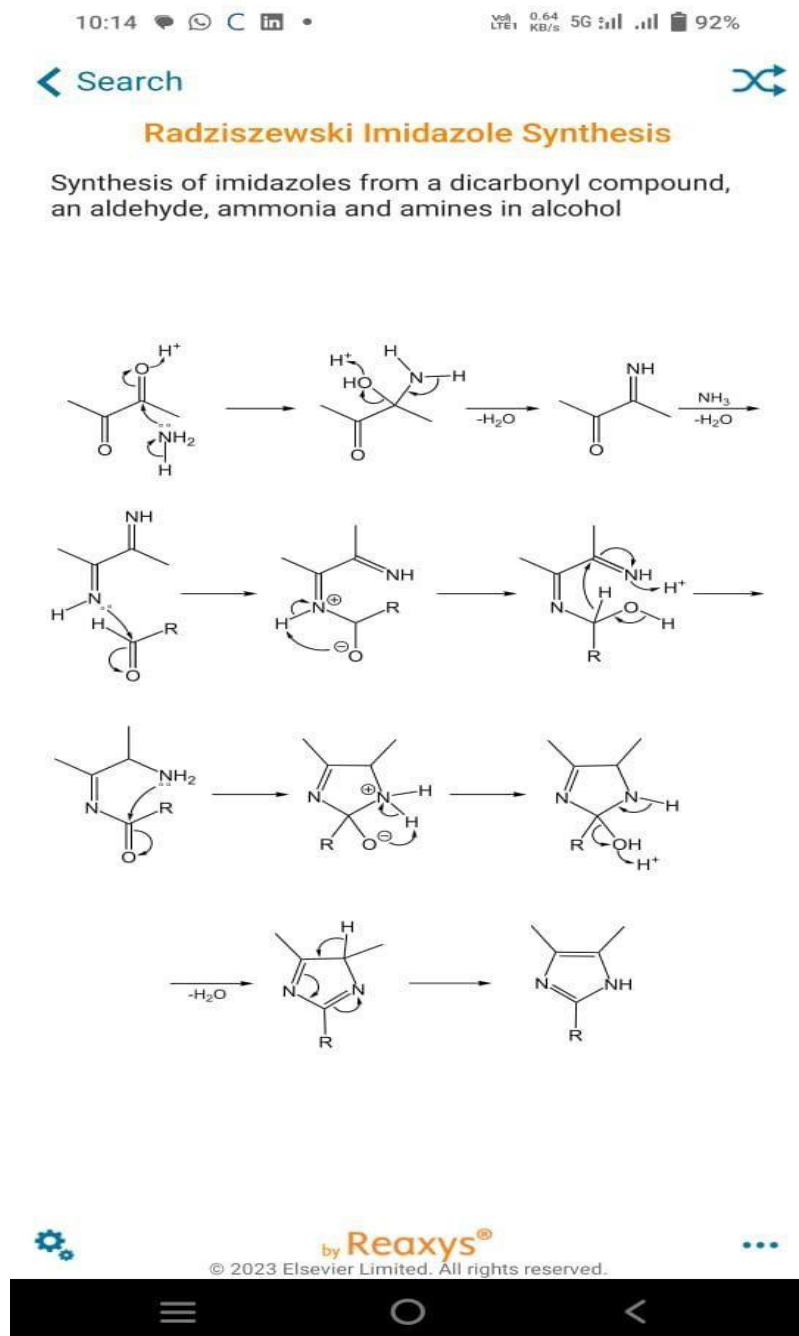


50 glorious decade of academic excellence
50 AICTE (10 awards 2018) (Autonomous status in industry based Pharmacy institutions)
50 NIPTE (2020 India's leading EP under Pharmacy releases)
50 Pharma program accredited by NABH (2019-23)
50 Registration as VES Scientific and Innovative Research Organization (VES-SIRC) at DSIIR
50 Signatory of PHEG, a global network initiative for sustainability

2 Attachments • Scanned by Gmail



Use of Reaction flash app for better understanding of reaction mechanisms



Q & A based assignment

Name: Khana Khot Class: F.Y Div.: B Roll No.: 27224
Subject: HAP-II Topic: Assignment Date: 21.03.24 Page No.: 1

F.Y. 1st Sem HAP-II

ASSIGNMENT

mateeh Thakr
@thakr

ENERGETICS: Formation and role of ATP,
Creatinine Phosphate & BMR.

Formation of ATP

Oxidative Phosphorylation -

It is the synthesis of energy rich ATP molecules with the help of energy liberated during oxidation of reduced coenzymes required for ATP synthesis is called ATP synthase which is considered to be F_1 of the F_0-F_1 complex or elementary particle. These particles are located in the inner mitochondrial membrane.

In 1961, Mitchell proposed chemiosmotic coupling model for ATP synthesis. According to this model, the exergonic transfer of electrons between Cy within the respiratory complexes is accompanied by the unidirectional pumping of electrons across the membrane into the intermembrane space. The electrochemical proton gradient that is generated & maintained in this way then provides the driving force for ATP synthesis by the F_0-F_1 ATP complex.

LEVINOR

F_0 complex serves as the proton translocator, the channel through which proton flows when the electrochemical gradient across the membrane provides the driving force for ATP-synthesizing activity of F_1 complex. Thus, the F_0 - F_1 complex is functional ATP synthase.

The biological motor consists of F_0 subunit embedded in membrane & stalk that passes into F_1 subunit projecting into the matrix. Flow of protons through F_0 channel physically rotates the stalk that activates F_1 to synthesize ATP.

Role of ATP

1. Synthesis of most important cellular components - Glucose from lactic acid, cholesterol, phospholipids, hormone & other substances etc.
2. Muscle contraction
3. Active transport across membrane.
eg: Glucose, amino acids, acetoacetate, etc.
4. Glandular secretions
5. Nerve conduction.

Name: Ahana Khot Class: F.Y Div.: B Roll No.: 27224
Subject: HAP-II Topic: Assignment Date: 21.03.24 Page No.: 2

Role of BMR

Basal Metabolic Rate (BMR) -

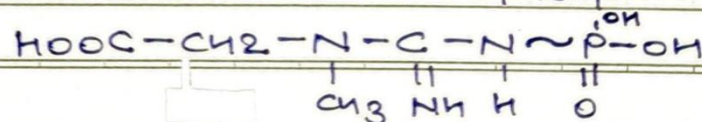
The amount of energy required by the body for carrying out involuntary work & maintaining the body temp. is known as the BMR.

The estimated minimum level of energy required to sustain the body's vital functions when at rest. The involuntary work includes the functioning of various organs & systems which work continuously to keep the body processes going such as heart & blood circulation, the kidney & excreta. Approximately $\frac{1}{3}^{\text{rd}}$ of the energy is needed for these processes while the remaining $\frac{2}{3}^{\text{rd}}$ is utilized for maintenance of muscle tone.

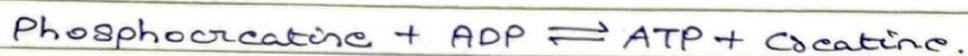
Creatinine Phosphate

Although ATP is main coupling agent for energy transfer, yet it is not the most abundant store of high-energy phosphate bonds in cells. Phosphocreatine, which also contains high energy phosphate bonds, is 3-8 times as abundant as ATP.

The formula of creatine phosphate is -



Unlike ATP, phosphocreatine cannot act as direct coupling agent for energy transfer between the foods & functional cellular systems; but it can transfer energy interchangeably with ATP. Excess of ATP are used to synthesise phosphocreatine, thus building up this storehouse of energy. When ATP are being used, energy in phosphocreatine is transferred rapidly back to ATP by then to functional system of cells. The equation is as follows-



The high-energy phosphate bond in phosphocreatine contains 1000 to 1500 calories per mole greater than in ATP. Therefore, the slightest usage of ATP by the cells calls forth the energy from phosphocreatine to synthesise new ATP rapidly. This effect keeps the concentration of ATP at an almost constant high level as long as any phosphocreatine remains. For this reason, ATP-phosphocreatine system is called 'ATP buffer' system, which is important for all the metabolic reactions in the body.

Mind Mapping

