



BAPATLA COLLEGE OF PHARMACY

(Sponsored by Bapatla Education Society), (Recognized by A.I.C.T.E&PCI)

(Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Bapatla , Guntur (Dist), Andhra Pradesh -522101

List of Teaching staff participated in Professional Development Programs

AY:2020-2021

S. No	Name of The Teacher	Designation	Name of The Programme	Date & Duration
1	Dr. Tanneru Venkateswara Rao	Associate Professor	In silico drug discovery and designs	4-01-2021 To 9-01-2021
2	Dr. Vankayalapati Sai Kishore	Associate Professor	In silico Drug delivery & Design	1-2-2021 To 6-2-2021 & One week
3	Dr. Jilakarla Venkata Suresh	Associate Professor	In silico Drug delivery & Design	1-3-2021 To 6-3-2021 & One week
4	Dr. Kadiyam Rajya Lakshmi	Associate Professor	In silico Drug delivery & Design	1-2-2021 To 6-2-2021 & One week
5	Kapu Ranjith	Associate Professor	Strategies & Advancements in research and Development	22-5-2020 To 26-5-2020
6	Dr. V. Sree Janardhanan	Associate Professor	In silico Drug delivery & Design	4-01-2021 To 9-01-2021
7	Dr. G. Anitha	Assistant Professor	In silico Drug delivery & Design	1-2-2021 To 6-2-2021 & One week
8	Neelam Begum	Assistant Professor	In silico Drug delivery & Design	1-2-2021 To 6-2-2021 & One week
9	Venu Babu chennupati	Assistant Professor	In silico Drug delivery & Design	1-2-2021 To 6-2-2021 & One week
10	Gorla Pavani Priya	Assistant Professor	In silico Drug delivery & Design	1-2-2021 To 6-2-2021 & One week
11	Sushma Chennupati	Assistant Professor	In silico Drug delivery & Design	1-3-2021 To 6-3-2021 & One week
12	P Madhulatha	Assistant Professor	In silico Drug delivery & Design	1-3-2021 To 6-3-2021 & One week
13	Annie Mande	Assistant Professor	In silico Drug delivery & Design	1-2-2021 To 6-2-2021 & One week
14	Manam Sukanya	Assistant Professor	In silico drug discovery and designs	4-01-2021 To 9-01 - 2021
15	Bontagarla Srinivasa Rao	Assistant Professor	In silico Drug delivery & Design	1-3-2021 To 6-3-2021 & One week
16	Singarapalle Shoba	Assistant Professor	In silico Drug delivery & Design	1-3-2021 To 6-3-2021 & One week
17	Keerthi Poorna Chandra Rao	Assistant Professor	In silico drug discovery and designs	1-2-2021 To 6-2-2021 & One week
18	Ch Rama Kotaiah	Lab Assistant	Good Laboratory Practices	16-12-2020
19	R. Venu Babu	Jr. Assistant	Good Laboratory Practices	16-12-2020
20	K. Sujatha	Record Assistant	Good Laboratory Practices	16-12-2020
21	N. Parameswari	Record Assistant	Good Laboratory Practices	16-12-2020

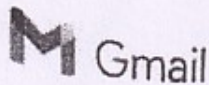
22	T. Suneetha	Record Assistant	Good Laboratory Practices	16-12-2020
23	D. Venkateswaramma	Helper	Good Laboratory Practices	16-12-2020
24	M. Srihari	Jr. Assistant	Good Laboratory Practices	16-12-2020
30	T. Vijaya Sekhar	Jr. Assistant	Good Laboratory Practices	16-12-2020
31	Ch. Rajendra Prasad	Jr. Assistant	Good Laboratory Practices	16-12-2020

T. G. Balakrishna

PRINCIPAL
Bapatla College of Pharmacy
BAPATLA - 522 101

6/22/2021

Gmail - AICTE-ISTE Induction/Refresher Programme-2018-19 - Tranfer of Grant - reg.



sudheer chowdary18 <sudheer.chowdary18@gmail.com>

AICTE-ISTE Induction/Refresher Programme-2018-19 - Tranfer of Grant - reg.

1 message

Wed, Jan 20, 2021 at 4:34 PM

ISTE, ND <exesecretary@isteonline.org>
To: sudheer.chowdary18@gmail.com
Cc: bcp.principal@gmail.com

PROF. VIJAY D. VAIDYA

Executive Secretary

ISTE/AICTE-ISTE-Induction Programme/2018-19
January 20, 2021

Dear Sir,

This has reference to the AICTE-ISTE Induction/Refresher Programme titled "In Silico Drug Discovery & Design : Methods & Applications" conducted during 04/01/2021 to 09/01/2021 (I Phase) and to be conducted on 01/02/2021 to 06/02/2021 (II Phase) at your institution. An amount of Rs.1,50,000/- (Rupees One lakh Fifty Thousand only) has been transferred to your account through NEFT vide UTR No.IDIBH21018139355 dated 18/01/2021 as per the account details provided by you for conducting the programme in Online Format. Kindly acknowledge the receipt of the same at the earliest.

With best regards,

 Yours sincerely,

Sd/-

(VIJAY D. VAIDYA)

T. G. Kalapachan

Prof. Sudheer Chowdary

Assistant Professor

Bapatla College of Pharmacy

Bapatla - 522 101 (A.P.)

PRINCIPAL
Bapatla College of Pharmacy
Bapatla 522 101

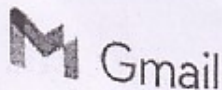


Indian Society for Technical Education

Shaheed Jeet Singh Marg

6/22/2021

Gmail - Sanction Letter - AICTE/ISTE Orientation/Refresher Programme - reg.



sudheer chowdary18 <sudheer.chowdary18@gmail.com>

Sanction Letter - AICTE/ISTE Orientation/Refresher Programme - reg.

Messages

ISTE, ND <exesecretary@isteonline.org>
To: sudheer.chowdary18@gmail.com
Cc: bcp.principal@gmail.com

Mon, Dec 28, 2020 at 3:03 PM

Dear Sir/Madam,

Sanction is hereby accorded to the institute to conduct **three programmes in Online Format** on the subject titled **In Silico Drug Discovery & Design : Methods & Applications** during the following dates:

Phase I : 04/01/2021 to 09/01/2021

Phase II : 01/02/2021 to 06/02/2021

Phase III : 01/03/2021 to 06/03/2021

In case you want to reschedule the above dates as proposed, you are permitted to reschedule the dates by June, 2021 and the same may intimate to us by email. We are further informed you that as per the guidelines of AICTE, the conduct of off-line programme is not permitted due to pandemic situation.

Thanking you,

Yours faithfully,

ISTE, New Delhi

Sanction Letter - Bapatla College of Pharmacy.pdf
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sudheer chowdary18 <sudheer.chowdary18@gmail.com>
To: drmsk@live.com

Tue, Dec 29, 2020 at 2:03 PM

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T. Gopalakrishna

PRINCIPAL
Bapatla College of Pharmacy
Bapatla 522 101



(Estd.1995)



**AICTE-ISTE SPONSORED
REFRESHER PROGRAMME (Online Mode)
ON**

**IN-SILICO DRUG DISCOVERY & DESIGN :
METHODS & APPLICATIONS**

04th - 09th January, 2021

Organized by

Department of Pharmacology

Bapatla College of Pharmacy

(Patronized by Bapatla Education Society)

BAPATLA , ANDHRA PRADESH.

Bapatla College of Pharmacy (BCOP) :

Bapatla College of Pharmacy started in the year 1995 by the Bapatla Education Society is forging ahead by offering UG & PG courses in pharmaceutical sciences. The institution aims to replace the traditional concept of teaching learning to outcome based education. The college has its own spectacular buildings with spacious well equipped laboratories, classrooms and experienced faculty. We are the first institute to offer M.Pharmacy programme under Jawaharlal Nehru Technological Univeristy from the year 2004. The college is located in a sprawling campus of 50 acres with the landscape of greenary. An inhouse R& D Centre, well designed air conditioned animal house approved by CPCSEA and medicinal garden with variety of medicinal plants are available. Recently our institution signed a MOU with SIPRA Labs Ltd, Hyderabad for academic, training, placement and research activities.

Department of Pharmacology:

The department of pharmacology is one of the mainstay of Bapatla College of Pharmacy, with its state-of-the-art equipments and experienced faculty who are engaged in multi disciplinary pharmaceutical research. It has been serving the needs of various departments which are involved in research and developement. The department provides quality preclinical and clinical education in pharmacology and therapeutics to B.Pharmacy and M.Pharm (Pharmacology) students.

The CPCSEA approved animal house which is the first of its kind in colleges affiliated to JNTU-Kakinada with its eminent IAEC (Institutional animal ethics committee) members who have paved the way for the smooth conductance of many research activities by the students and scholars of our college and as well as from other universities.



CHIEF PATRONS



**Sri. B. VENKATA SIVA
RAMA KRISHNA**
PRESIDENT



Sri. P. PAPA RAO
VICE PRESIDENT



Sri. M. NAGESWARA RAO
SECRETARY



Sri. P. BHAVANARAYANA CHOWDARY
CORRESPONDENT



Sri. CH. VENKAIAH
TREASURER

PATRON



Dr. T.E. GOPALA KRISHNA MURTHY
PRINCIPAL

COORDINATOR

Mr. B. SUDHEER CHOWDARY
ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACOLOGY

ORGANISING COMMITTEE

Dr. M. SATHISH KUMAR – HOD (PHARMACOLOGY)

Mr. K. POORNA CHANDRA RAO – ASSISTANT PROFESSOR

Mrs. NEELAM BEGUM – ASSISTANT PROFESSOR

Ms. S. SHOBHA – ASSISTANT PROFESSOR

Mrs. M. ANNIE – ASSISTANT PROFESSOR

Mr. B. SRINIVASA RAO – ASSISTANT PROFESSOR

Objectives of the Program

1. To provide exposure to current research and development in drug discovery and design, which also encompasses technologies such as molecular dynamic simulation, molecular docking, CoMFA & CoMSIA, insilico tools, artificial intelligence, pharmacophore modelling and screening etc.
2. To impart knowledge and skill in developing various solutions for drug discovery.
3. To spawn a viable information regarding the technology used in the research at industry level.
4. To imbue faculty with knowledge regarding the applications of technology.

Programme Guidelines

- ❖ No Registration Fee.
- ❖ Programme will be conducted through online mode.
- ❖ ISTE Life Members will be given priority in registration (Contact ISTE through email : istehq@isteonline.org for membership).
- ❖ Any faculty member of AICTE approved institutions can be registered.
- ❖ Participants will be selected based on First come First Serve basis and selected participants will be intimated through E-mail.
- ❖ Minimum 80% attendance & 60 % marks are necessary for certification.
- ❖ Submission of feedback at the end of each day and overall feedback at the end of the programme is mandatory.
- ❖ An online test shall be conducted at the end of the program.



BAPATLA COLLEGE OF PHARMACY
(Patronised by Bapatla Education Society)
Six Days Online AICTE-ISTE Refresher Programme

on
***In-silico* Drug Discovery & Design: Methods & Applications**
Programme Schedule

Day -1 -04-01-2021 -Monday

S.no	Time	Speaker	Topic
1	Programme Starts at 10.15.a.m.		
1	10.15.a.m	Inaugural Session Cheif Guest –Mr. Venkat Jasti Chairman Suven Life Sciences Ltd, Hyderabad.	—
2	11.00. a.m. – 12.30.p.m.	Dr. M.U.R. Naidu Director, Natco Pharma Ltd Hyderabad.	Technology advances with implications for Drug Discovery and Development
3	12.30.p.m. – 12.45.p.m.	Guest of Honour : Prof. K.R.S.Sambasiva Rao Vice Chancellor Mizoram Central Univeristy	—
	12.45.p.m. – 1.30.p.m.	Lunch Break	
4	1.30.p.m. - 3.00.p.m.	Dr. Rajendra N. Bhadane Post Doctoral Researcher Abo AkademiUniveristy Fin Land	Molecular Dynamics simulation and its applications in drug discovery and development.
5	3.10.p.m.- 4.30.p.m.	Dr. SaiMurali R S Senior Manager - Planning & Regulatory Sipra Labs Limited - Hyderabad.	Drug Designing and Development:A Closer walk through <i>insilico</i> approaches and prospects for young professionals.



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Programme Schedule

Day - 2 - 05-01-2021 – Tuesday			
S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	Dr. Girinath G. Pillai Director, Zastra Innovations.	Role of ADME, P450 and toxicity in the Drug Candidate Selection.
2	11.00. a.m. - 12.30.p.m.	Dr. BR Prashantha Kumar Assistant Professor, Department of Pharmaceutical Chemistry JSS College of Pharmacy, SS Nagar, Mysore.	CoMFA and CoMSIA: Decades old techniques, still find niche in drug discovery and drug design.
	12.30.p.m. – 1.30.p.m.	Lunch Break	
3	1.30.p.m. - 3.00.p.m.	Mr. C.Naresh Babu Assistant Professor, Raghavendra Institute of Pharmaceutical Education and Research, Ananthapur- Andhra Pradesh.	Applications of molecular descriptors in drug discovery.



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Programme Schedule

Day 3 - 06-01-2021 –Wednesday			
S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	Dr. ManivannanElangovan Assistant professor Pharmaceutical Chemistry at School of Pharmacy, Devi Ahilya Vishwavidyalaya, Indore.	Virtual Screening Approach for Identifying Novel Bioactive Molecules.
2	10.30.a.m.	Guest of honour: Dr. P.Veer Raju Vice President-Regulatory Affairs, Quagen Pharmaceuticals LLC, West Caldwell, New Jersey	—
3	11.00. a.m. - 12.30.p.m.	Dr. M.U.R. Naidu Director, Natco Pharma Ltd Hyderabad.	Drug discovery and development in post Genomic. Era
	12.30.p.m. – 1.30.p.m.	Lunch Break	
4	1.30.p.m. - 3.00.p.m.	Dr.ArthiVenkatesan Scientific Specialist, Altem Technologies, Bengaluru - Karnataka.	Drug Design and application of Biovia in life sciences.
5	3.10.p.m.- 4.30. p.m.	Dr.C. Karthikeyan Assistant Professor Indira Gandhi National Tribal University Amarkantak -Madhya Pradesh.	Molecular Docking made easy: A hands on training session on autodockvina.



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Programme Schedule

Day 4 - 07-01-2021 - Thursday

S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	Dr. Murali Krishna Assistant Professor College of Pharmaceutical Sciences Andhra University, Visakhapatnam - Andhra Pradesh.	Insilico tools for drug discovery.
2	10.30.a.m.	Guest of honour: Mr. Satya Prasad Chief Operating Officer & President, ISPACE Technologies	—
3	11.00. a.m. - 12.30.p.m.	Dr. S. Jubie Department of Pharmaceutical Chemistry JSS College of Pharmacy Udhagamandalam.	Molecular docking as a popular tool in drug design.
	12.30.p.m. - 1.30.p.m.	Lunch Break	
4	1.30.p.m. - 3.00.p.m.	Dr. Dhivya.S Sr. Application Scientist Altam Technologies, Bengaluru - Karnataka.	Pharamacophore modeling and database screening – A lead optimization technique in LBDD.



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on
In-silico Drug Discovery & Design: Methods & Applications
Programme Schedule

Day 5 - 08-01-2021 - Friday			
S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	Dr. Purushottam Dewang Founder MD and Chief Scientist CropG1 Agro Research & Development Pvt Ltd Bengaluru, Karnataka.	Structure based drug design.
2	10.30.a.m.	Guest of honour: Dr. V. Satyannarayana, Managing Director Sipra Labs Ltd Hyderabad	-----
3	11.00. a.m. - 12.30.p.m.	Dr. M. Sushil Kumar Associate Professor Maharani Lakshmi Ammanni College for Women (MLACW), Bengaluru - Karnataka.	Docking - A Case Study.
	12.30.p.m. - 1.30.p.m.	Lunch Break	
4	1.30.p.m. - 3.00.p.m.	Dr. Sharad Wakode Professor of Pharmaceutical Chemistry DIPSAR, Govt. of NCT of Delhi.	Role of Green Chemistry in Drug Discovery & Design.

BAPATLA COLLEGE OF PHARMACY
Six Days Online AICTE-ISTE Refresher Programme - Phase - I
on

In-silico Drug Discovery and Design: Methods and Applications(04-01-2021 to 09-01-2021)
Registration List

Sno	Name of the Participant	College Name	Designation	State
1	Mahendra Lalchand Kasode	Konkan Gyanpeeth Rahul Dharkar College of Pharmacy & R.I.Karjat	Lecturer	Maharashtra
2	Vaibhav V Potdar	Goa College Of Pharmacy Panaji Goa	Assistant Professor	Goa
3	Dr. Prasanth Francis	Nirmala college of pharmacy	Associate professor	Kerala
4	PAYAL NILKANTH KHANDAIT	CHHATRAPATI SHIVAJI COLLEGE OF PHARMACY, DEORI	Lecturer	Maharashtra
5	Jisha Thomas	Nirmala college of pharmacy muvattupuzha	Assistant professor	Kerala
6	Dr.NAGA RAVI KIRAN TANGIRALA	Dr.NAGA RAVI KIRAN TANGIRALA	Professor	Andhra pradesh
7	Dr. Kalpesh Gaur	Geetanjali Institute of Pharmacy, Geetanjali University, Udaipur	Professor	Rajasthan
8	Ankita Acharya	JIS University	Assistant Professor	West Bengal
9	Sathish Kumar Konidala	Faculty of Pharmacy, Vignan's Foundation for Science Technology & Research	Assistant Professor	Andhra Pradesh
10	Sruthi maktala	Jayamukhi college of pharmacy	Assistant professor	Telangana
11	Dr.C Senthil Kumar	C Senthil Kumar	Professor	Tamil Nadu
12	Preeja G Pillai	Nirmala college of pharmacy	Professor	Kerala
13	Pradnya Korlekar	Vivekanand Education Society's College of Pharmacy	Assistant Professor	Maharashtra
14	C.KRISHNA VENI	Sarojini Naidu Vanita pharmacy maha vidyalaya	Assistant professor	Telangana
15	Dr.Iffath Rizwana	Deccan school of pharmacy	Professor and HOD	Telangana
16	Tulasi Ashwin Kumar	Jayamukhi college of Pharmacy	Assistant Professor	Telangana
17	Dr. Suja Rani S	College of Veterinary and Animal Sciences, Mannuthy, Thrissur, KVASU KVSRR SIDDHARTHA COLLEGE OF PHARMACEUTICAL SCIENCES	Assistant Professor ASSISTANT PROFESSOR	Kerala ANDHRA PRADESH
18	ATCHUTUNI VS RAVI SAI NADH	Santhiram college of pharmacy	Professor	Andhra Pradesh
19	SREENIVASULU. M			

BAPATLA COLLEGE OF PHARMACY
Six Days Online AICTE-ISTE Refresher Programme - Phase - I

on
In-silico Drug Discovery and Design: Methods and Applications(04-01-2021 to 09-01-2021)
Registration List

20	Venkateswara rao tanneru	Bapatla college of pharmacy	Associate professor	Andhrapradesh
21	SUNDARARAJAN. N	Karpagam College of Pharmacy	Assistant Professor	Tamilnadu
22	A.K. Haseena Banu	St.johns college of pharmaceutical sciences	Assistant professor	Andhra pradesh
23	CHINNAPATTU BHUVANESWARARAO	JNTUA	Assistant professor	ANDHRA PRADESH
24	Dr. R. Anusha	Nirmala college of pharmacy	Assistant professor	Andhrapradesh
25	Harpreet kaur	Amar Shaheed baba Ajit Singh Jujhar Singh Memorial college of Pharmacy,Bela	Assistant Professor	Punjab
26	A RAJESHPAVAN	Sreeramachandra medical college & Research centre	Asstprof	Andhra Pradesh
27	G.Jyothi Reddy	Svu College of Pharmaceutical Sciences	Academic Consultant	Andhra Pradesh
28	Sukanya Manam	Bapatla College of Pharmacy	Assistant professor	Andhra Pradesh
29	Manpreet Kaur	ASBASJSM college of Pharmacy Bela	Assistant professor	PUNJAB
30	Ashwani Mishra	Department of Pharmacy Barkatullah University	Assistant Professor	Madhya Pradesh
31	Vijetha Pendyala	Chebrolu Hanumaiah Institute of Pharmaceutical Sciences	Associate Professor	Andhrapradesh
32	KODURU RAJYALAKSHMI	VIGNAN PHARMACY COLLEGE	PROFESSOR	Andhra Pradesh
33	Naga Prashant Koppuravuri	Sri Adichunchanagin College of Pharmacy	Assistant Professor	Karnataka
34	K. Lahari	Vignan pharmacy college	Assistant professor	Andhra Pradesh
35	Umasankar Kulandaivelu	KL College of Pharmacy KLEF deemed to be University	Professor	Andhra Pradesh
36	Dr.ALLENKI VENKATESHAM	SVS GROUP OF INSTITUTIONS	Professor	Telangana
37	DR.RLC.SASIDHAR	CHEBROLU HANUMAIAH INSTITUTE OF PHARMACEUTICAL SCIENCES	ASSOCIATE PROFESSOR	ANDHRA PRADESH
38	Nancy Jose	Nirmala College of Pharmacy, Muvatupuzha	Associate professor	Kerala
39	Priyanka	Sri Sai College of Pharmacy BADHANI PATHANKOT	Assistant professor	Punjab

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Six Days Online AICTE-ISTE Refresher Programme - Phase - I
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In-silico Drug Discovery and Design: Methods and Applications(04-01-2021 to 09-01-2021)
Registration List

40	Dr DASI JEEVAN MANI BABU	Nova College of Pharmaceutical Education Research	Principal & Professor	ANDHRA PRADESH
41	Bishwanath Mishra	Institute of Pharmacy and Technology, Salipur	Assistant Professor	Odisha
42	Neelam	Chaudhary Bansilal university Bhiwani Haryana	Assistance Professors	Haryana
43	Prasanthi Thayi	V V Institute of Pharmaceutical Sciences	Associate Professor	Andhra Pradesh
44	Rohini Kavalapure	KLE COLLEGE OF PHARMACY, BELAGAVI	Assistant professor	Karnataka
45	Dr. P. Deepak	Guru Nanak Institutions Technical Campus- School of Pharmacy	Assistant Professor	Telangana
46	Ms Noel	ASBASJSM COP BELA	Assistant professor	Punjab
47	Neha Maria Augustine	Nirmala college of pharmacy	Assistant professor	Kerala
48	Ramakrishna s	Siddaganga college of pharmacy	Assistant professor	Karnataka
49	Deepa Jose	Nirmala college of Pharmacy, Muvattupuzha	Professor	Kerala
50	P. Veeresh Babu	Gokaraju Rangaraju College of Pharmacy	Associate Professor	Telangana
51	Kamaldeep Singh	Bharat College of pharmacy	Principal	Punjab
52	Navidha	R. K. S. D. College of pharmacy	Assistant Professor	Haryana
53	Sk.Sharmila	Vignan pharmacy college	Assistant professor	Ap
54	Afzal Basha Shaik	Vignan Pharmacy College	Associate Professor	Andhra Pradesh
55	PULIPATI SOWJANYA	Vignan Pharmacy College	Professor	Andhra Pradesh
56	Rajesh Guntupalli	Malineni Perumallu Educational society's Group of Institutions	Asst.Professor	Andhra Pradesh
57	Jalaiah Marri	QIS college of Pharmacy	Associate professor	andhrapradesh
58	Dr.V.Saikishore	Bapatla College of pharmacy	Associate Professor	Andhra Pradesh
59	Syeda Nishat Fathima	Jayamukhi College of Pharmacy	Assistant Professor	Telangana
60	Raghuveer Varma Pemmadi	Vignan's Foundation for Science, Technology and Research	Associate Professor	Andhra Pradesh
61	Mande Praveen	Nimra college of pharmacy	Assistant professor	Andhrapradesh

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Six Days Online AICTE-ISTE Refresher Programme - Phase - I
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In-silico Drug Discovery and Design: Methods and Applications(04-01-2021 to 09-01-2021)
Registration List

62	Ravindra Babu Pingili	Vignan's Foundation for Science, Technology and Research (Deemed to be University)	Associate Professor	Andhra Pradesh
63	Shaik Chand Basha	Annamacharya College of Pharmacy, Rajampet	Assistant Professor	Andhrapradesh
64	Vishnu Kant Rai	Azad College of Education Pharmacy	Principal	UP
65	VONTERU MUNI SEKHA	VAGDEVI COLLEGE OF PHARMACY AND RESEARCH CENTER	Associate Professor	ANDHRA PRADESH
66	Dr.Madhuri Pandole	Saraswati Institute of pharmaceutical sciences	Assistant professor	Gujrat
67	Dr. Sree Janardhanan	Bapatla College of Pharmacy	Associate Professor	Andhra Pradesh
68	M.Prathap	Sree vidyanikethan college of pharmacy	Assistant Professor	Andhra Pradesh
69	Puligoti pandu	Vikas college of pharmacy	Assistant professor	AP
70	Saravanan R	QIS College of Pharmacy Ongole	Professor	Andhrapradesh
71	Gopu. Swetha	Gopu. Swetha	Asst professor	Telangana
72	GOMATHI JOSHI	Jayamukhi Institute of Pharmaceutical Sciences	Assistant Professor	Telangana
73	VIRDALA CHINNIKRISHNAIAH	ANNAMACHARYA COLLEGE OF PHARMACY, RAJAMPET.	Associate professor	Andhra pradesh
74	Kaveripakam sai sruthi	Sri padmavati mahila Visvaavidyalayam	Academic consultant	Andhra Pradesh
75	Shaik.Munwar	Chalapathi Institute of pharmaceutical sciences	assistant professor	andhra pradesh
76	Dr. G. L. Gupta	SVKM'S NMIMS SPTM	Associate Professor	Maharashtra
77	P.Rajavel	Sree Vidyanikethan College of Pharmacy, Tirupathi	Assistant Professor	Andhra Pradesh
78	Dr.V.Chitra	SRM COLLEGE OF PHARMACY SRMIST	Professor	Tamil Nadu
79	VIJAYALAKSHMI NANDIKATTI	Hindu college of pharmacy	Assistant professor	Andhra Pradesh
80	Rana Firdaus	HIMT College of Pharmacy	Assistant professor	Uttar Pradesh
81	Sreenu Thalla	Chalapathi Institute of Pharmaceutical Sciences	Assistant Professor	Andhra Pradesh

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40	Dr DASI JEEVAN MANI BABU	Nova College of Pharmaceutical Education Research Research	Principal & Professor	ANDHRA PRADESH
41	Bishwanath Mishra	Institute of Pharmacy and Technology, Salipur	Assistant Professor	Odisha
42	Neelam	Chaudhary Bansilal university Bhiwani Haryana	Assistance Professors	Haryana
43	Prasanthi Thayi	V V Institute of Pharmaceutical Sciences	Associate Professor	Andhra Pradesh
44	Rohini Kavalapure	KLE COLLEGE OF PHARMACY, BELAGAVI	Assistant professor	Karnataka
45	Dr. P. Deepak	Guru Nanak Institutions Technical Campus- School of Pharmacy	Assistant Professor	Telangana
46	Ms Noel	ASBASJSM COP BELA	Assistant professor	Punjab
47	Neha Maria Augustine	Nirmala college of pharmacy	Assistant professor	Kerala
48	Ramakrishna s	Siddaganga college of pharmacy	Assistant professor	Karnataka
49	Deepa Jose	Nirmala college of Pharmacy, Muvattupuzha	Professor	Kerala
50	P. Veeresh Babu	Gokaraju Rangaraju College of Pharmacy	Associate Professor	Telangana
51	Kamaldeep Singh	Bharat College of pharmacy	Principal	Punjab
52	Navidha	R. K. S. D. College of pharmacy	Assistant Professor	Haryana
53	Sk.Sharmila	Vignan pharmacy college	Assistant professor	Ap
54	Afzal Basha Shaik	Vignan Pharmacy College	Associate Professor	Andhra Pradesh
55	PULIPATI SOWJANYA	Vignan Pharmacy College	Professor	Andhra Pradesh
56	Rajesh Guntupalli	Malineni Perumallu Educational society's Group of Institutions	Asst.Professor	Andhra Pradesh
57	Jalaiah Marri	QIS college of Pharmacy	Associate professor	andhrapradesh
58	Dr.V.Saikishore	Bapatla College of pharmacy	Associate Professor	Andhra Pradesh
59	Syeda Nishat Fathima	Jayamukhi College of Pharmacy	Assistant Professor	Telangana
60	Raghuveer Varma Pemmadi	Vignan's Foundation for Science, Technology and Research	Associate Professor	Andhra Pradesh
61	Mande Praveen	Nimra college of pharmacy	Assistant professor	Andhrapradesh

Principal

BAPATLA COLLEGE OF PHARMACY
Six Days Online AICTE-ISTE Refresher Programme - Phase - I

on

In-silico Drug Discovery and Design: Methods and Applications(04-01-2021 to 09-01-2021)
Registration List

62	Ravindra Babu Pingili	Vignan's Foundation for Science, Technology and Research (Deemed to be University)	Associate Professor	Andhra Pradesh
63	Shaik Chand Basha	Annamacharya College of Pharmacy, Rajampet	Assistant Professor	Andhrapradesh
64	Vishnu Kant Rai	Azad College of Education Pharmacy	Principal	UP
65	VONTERU MUNI SEKHAR	VAGDEVI COLLEGE OF PHARMACY AND RESEARCH CENTER	Associate Professor	ANDHRA PRADESH
66	Dr.Madhuri Pandole	Saraswati institute of pharmaceutical sciences	Assistant professor	Gujrat
67	Dr. Sree Janardhanan	Bapatla College of Pharmacy	Associate Professor	Andhra Pradesh
68	M.Prathap	Sree vidyanikethan college of pharmacy	Assistant Professor	Andhra Pradesh
69	Puligoti pandu	Vikas college of pharmacy	Assistant professor	AP
70	Saravanan R	QIS College of Pharmacy Ongole	Professor	Andhrapradesh
71	Gopu. Swetha	Gopu. Swetha	Asst professor	Telangana
72	GOMATHI JOSHI	Jayamukhi Institute of Pharmaceutical Sciences	Assistant Professor	Telangana
73	VIRDALA CHINNIKRISHNAIAH	ANNAMACHARYA COLLEGE OF PHARMACY, RAJAMPET.	Associate professor	Andhra pradesh
74	Kaveripakam sai sruthi	Sri padmavati mahila Visvavidyalayam	Academic consultant	Andhra Pradesh
75	Shaik.Munwar	Chalapathi institute of pharmaceutical sciences	assistant professor	andhra pradesh
76	Dr. G. L. Gupta	SVKM'S NMIMS SPTM	Associate Professor	Maharashtra
77	P.Rajavel	Sree Vidyanikethan College of Pharmacy, Tirupathi	Assistant Professor	Andhra Pradesh
78	Dr.V.Chitra	SRM COLLEGE OF PHARMACY SRMIST	Professor	Tamil Nadu
79	VIJAYALAKSHMI NANDIKATTI	Hindu college of pharmacy	Assistant professor	Andhra Pradesh
80	Rana Firdaus	HIMT College of Pharmacy	Assistant professor	Uttar Pradesh
81	Sreenu Thalla	Chalapathi Institute of Pharmaceutical Sciences	Assistant Professor	Andhra Pradesh

BAPATLA COLLEGE OF PHARMACY
Six Days Online AICTE-ISTE Refresher Programme - Phase - I
on
In-silico Drug Discovery and Design: Methods and Applications(04-01-2021 to 09-01-2021)
Registration List

82	J.Gomathi	Vinayaka Mission's College of Pharmacy	Associate Professor	Tamil Nadu
83	Poojari Anusha	Jayamukhi college of pharmacy	Asst. Professor	Warangal urban
84	Surya Prakash Gupta	Department of Pharmaceutical Sciences and Technology, AKS University, Satna, MP	Professor	Madhya Pradesh
85	Dr.KRISHNA MOHAN CHINNALA	Nalla Narasimha Reddy Education Society's Group of Institutions	Professor	Telangana
86	Amol Dilip Gholap	St. John Institute of Pharmacy and Research Palghar	Assistant Professor	Maharashtra
87	Gangarapu Obulesu	Rao's college of pharmacy	Pharmacist	Andhra Pradesh
88	Saidatri Arige	V. V. Institute of Pharmaceutical Sciences	Assistant Professor	India
89	Lakshmana Rao Atmakuri	V. V. Institute of Pharmaceutical Sciences	Principal	Andhra Pradesh
90	K. Srikanth Kumar	V. V. Institute of Pharmaceutical Sciences, Gudlavalluru	Associate Professor	Andhra Pradesh
91	Satys Sree Bandaru	V. V. Institute of Pharmaceutical Sciences	Associate professor	Andhra Pradesh
92	Dandamudi Alekhya	V.V.Institute of Pharmaceutical Sciences	Assistant professor	Andhra pradesh
93	Dr.P.Dwarakanadha Reddy	Annamacharya College of Pharmacy	Prof	Andhra Pradesh
94	Dr.J H VIRUPKSHA	NATIONAL COLLEGE OF PHARMACY, SHIVAMOGGA-577201	Assistant Professor	Karnataka
95	Mahesh Palled	KLE University, Belgaum	Professor	Karnataka

B. Sudheer Chowdary

Coordinator
(B.Sudheer Chowdary)

T. Gopalakrishna

Principal
(T.Gopalakrishna)



BAPATLA COLLEGE OF PHARMACY

(Patronised by Bapatla Education Society)

Six Days Online AICTE-ISTE Refresher Programme

ON

In-silico Drug Discovery & Design: Methods & Applications

PROCEEDINGS OF ISTE REFRESHER PROGRAMME

Day I – 04.01.2021 (Monday)

Inaugural session at 10.15 AM

Mr. Venkat Jasti, Chairman, Suven Life Sciences Ltd, Hyderabad was the Chief Guest at the inaugural function.

Sri. Manam Nageswara Rao, Hon'ble Secretary of Bapatla Education Society lighted the lamp symbolizing the auspicious start of the refresher programme. Dr. T. E. G. K. Murthy, Principal, Bapatla College of Pharmacy was occupied on the dais to witness the occasion.

Mr. Venkat Jasti conveyed the important role of the pharmacists in the health care system. He expressed that the pharmacy students can assume an integrated and accountable role in the practice model by having defined responsibilities for patient care. This role will produce students who are best trained to meet the challenges of pharmacy practice and health care reform. To make the students successful in this role, the institution must have a specific plan for integrating pharmacy students into the model and establishing relationships with the industry to upgrade their knowledge. If successfully executed, the relationship between the institution and the industry will enhance the mission of offering quality education as well as shaping them to be a good pharmacist in this competitive arena.



I Session – 11.00 AM – 12.30 PM

Dr. M.U.R. Naidu, Director, Natco Pharma Ltd, Hyderabad addressed the gathering on the topic "Technology advances with implications for Drug Discovery and Development". He meticulously explained that the drug discovery is a process which aims at identifying a compound therapeutically useful in curing and treating disease. This process involves the identification of candidates, synthesis, characterization, validation, optimization, screening and assays for therapeutic efficacy. Modern drug discovery involves the identification of screening hits, medicinal chemistry and optimization of those hits

to increase the affinity, selectivity, efficacy/potency, metabolic stability, and oral bioavailability. He also insisted on the need for modern in-Silico techniques.

What is In Silico ?

In SILICO
Latin word In Silico means - performed using computer or via computer simulation

Pedro Miramontes, a mathematician from National Autonomous University Of Mexico (UNAM), presented the report "DNA & RNA Physicochemical contains, Cellular Automata & Molecular Evolution"

In his talk Miramontes used the term "In Silico" first time to characterize biological experiment carried out entirely in a computer

Dr. Pedro Miramontes

zoom

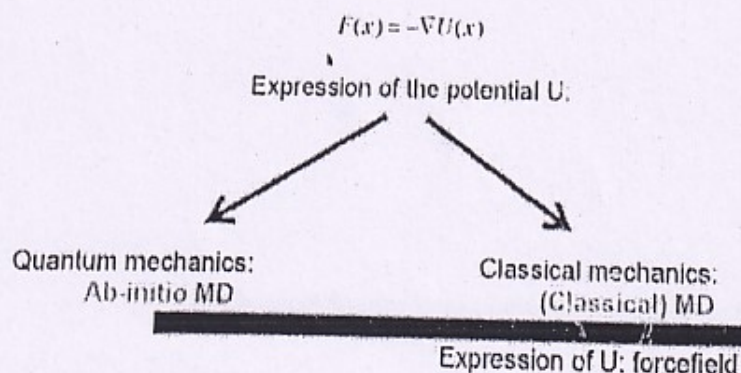
II session – 1.30 PM – 3.00 PM

Dr. Rajendra N. Bhadane, Post Doctoral Researcher, Abo Akademi University, Finland gave his lecture on the topic "Molecular dynamics simulation and its applications in drug discovery and development".

He reviewed the roles the computer simulations of macromolecular receptors and their associated small-molecule legends can play in drug discovery, including the identification of cryptic or allosteric binding sites, the enhancement of traditional virtual-screening methodologies, and the direct prediction of small-molecule binding energies. The limitations of current simulation methodologies, including the high computational costs and approximations of molecular forces required were also discussed. With constant improvements in both computer power and algorithm design, the future of computer-aided drug design is promising; molecular dynamics simulations are likely to play an increasingly important role.

Basics of molecular dynamics simulations

- Particles are submitted to inter-atomic potentials U
- Framework of classical mechanics: Newton's laws for the nuclei

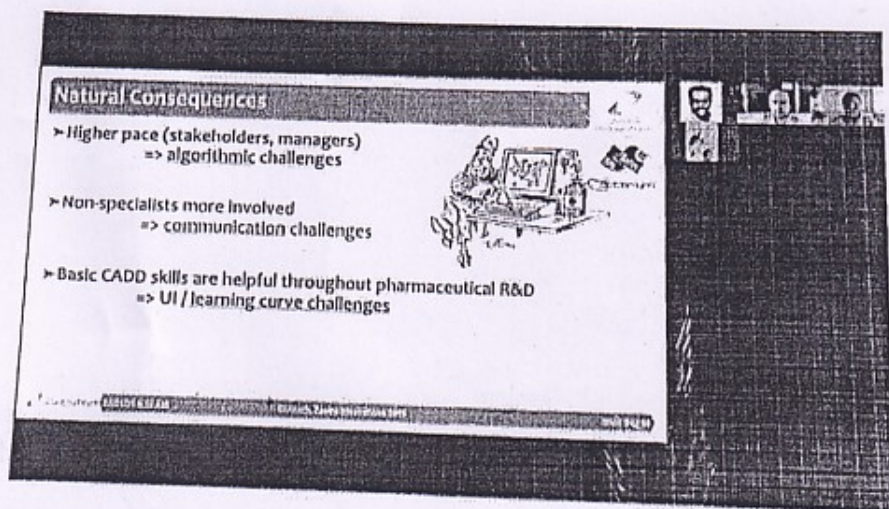


DAY - 2, 05.01.2021 (TUESDAY)

I Session : 9.00 AM - 10.30 AM

Dr. Girinath G. Pillai, Director, Zastra Innovations gave his valuable speech on the topic "Role of ADME, P450 and toxicity in the Drug Candidate Selection".

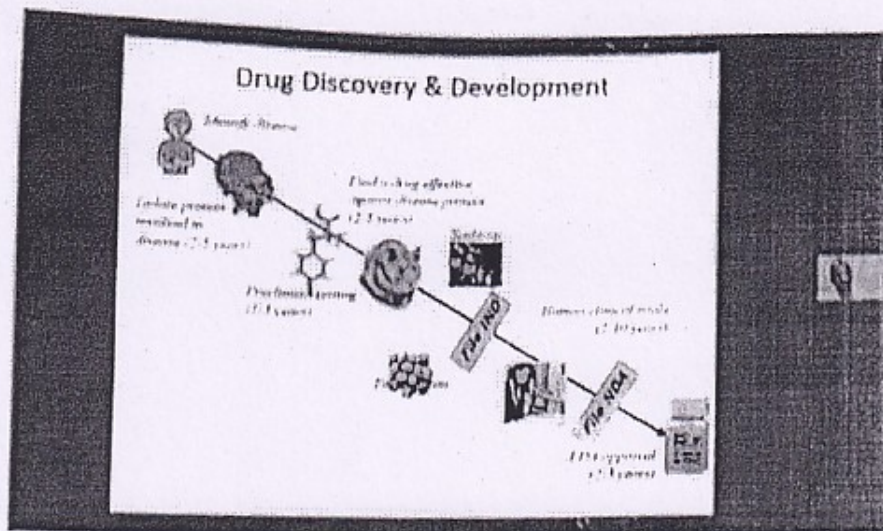
He expressed his view that the absorption, distribution, metabolism, and excretion (ADME) form an efficacy benchmark for various drug compounds. The evaluation of these pharmacological properties is critical for the selection of a new drug candidate during drug discovery and development. ADME assays are conducted to make a go-no-go decision regarding drug candidate selection and movement into late-stage preclinical and clinical programs. Regular improvements in the ADME properties are achieved during lead optimization while keeping the selectivity and potency of the chemical drug lead intact. It, however, is plausible to have chemically efficacious compounds with acceptable ADME properties but decreased in vivo potencies. Most small molecules transform into metabolites through metabolic breakdown involving specific enzymatic systems. Some metabolites are inert and while others are active. Thus, metabolism deactivates parent drug's administered dose leading to a reduced drug impact in case of inactive metabolites. However, it enhances the bioavailability of the drug compound at the site of action if the metabolite is active. The ADME studies often include toxicity study as the last phase. It calculates the extent to which the administration of a drug compound can harm the human body or organisms. Here, organisms may refer to animal or organism substructure such as cells.



II session - 11.00 AM - 12.30 PM

Dr. B R Prasantha Kumar, Assistant Professor, Dept. of Pharmaceutical Chemistry, JSS College of Pharmacy, Mysore addressed the audience on the topic "CoMFA and CoMSIA: Decades and techniques, still find niche in drug discovery and drug design".

He emphasized the importance of CoMFA and CoMSIA techniques. Even though it is decades old, it is still promising. He delivered the history of drug discovery and development and the classification of computer aided drug design, 3D molecular modeling. CoMSIA is a very robust ligand based drug design technique and is a valuable tool for lead optimization.



III Session – 1.30 PM – 3.00 PM

Mr. C. Naresh Babu, Assistant Professor, Raghavendra Institute of Pharmaceutical Education and Research, Ananthapur discussed the applications of molecular descriptors in drug discovery.

He deliberately explained that we had witnessed several scientific experiments with the aim to correlate the structure of chemical entities to their biological activities, toxicities and other molecular properties. They play extremely important role in the field of chemistry, pharmacy, environmental toxicology and health research. Till today, more than 5000 molecular descriptors being reported and are calculated mainly using dedicated software's, which are run on advanced machines. Molecular descriptors play important roles in the fields of quantitative structure-activity relationship studies (QSAR) as well as quantitative structure- property relationship studies (QSPRs). The path breaking progress in the field of chemo informatics has showed us new paths for identifying key links between the molecular structure and their biological properties. In his speech, some of the pharmaceutically important molecular descriptors and their applications are presented.

Applications of Molecular Descriptors in Drug Discovery

Molecular Descriptors

- Physicochemical
- Toxicity
- Metabolism

by

Mr. C. Naresh Babu, M. Pharm., (Ph.D.)
Assistant Professor,
Molecular Modeling and Drug Discovery Division

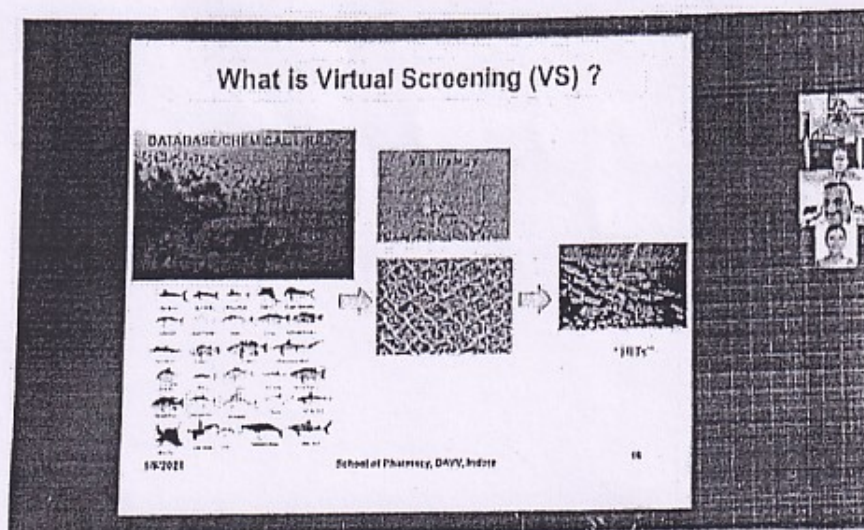
Raghavendra Institute of Pharmaceutical Education and Research – Autonomous
K. R. Palli Cross, Chiyedu Post, Ananthapuramu, A.P - 515721

DAY - 3, 06.01.2021 (WEDNESDAY)

I session: 9.30 AM - 10.30 AM

Dr. Manivannan Elangovan, Assistant Professor at School of Pharmacy, Devi Ahilya Vishwavidyalaya, Indore shared his views on "Virtual Screening, Approach for identifying Novel Bioactive molecules"

Virtual screening (VS) is a computational technique used in drug discovery to search libraries of small molecules in order to identify those structures which are most likely to bind to a drug target, typically a protein receptor or enzyme. Structure-based virtual screening (SBVS) is a computational approach used in the early-stage drug discovery campaign to search a chemical compound library for novel bioactive molecules against a certain drug target. Structure-based drug discovery (SBDD) is becoming an essential tool in assisting fast and cost-efficient lead discovery and optimization. The application of rational, structure-based drug design is proven to be more efficient than the traditional way of drug discovery since it aims to understand the molecular basis of a disease and utilizes the knowledge of the three-dimensional structure of the biological target in the process. He focused on the principles and applications of Virtual Screening (VS) within the context of SBDD and examine different procedures ranging from the initial stages of the process that include receptor and library pre-processing, to docking, scoring and post-processing of top scoring hits.

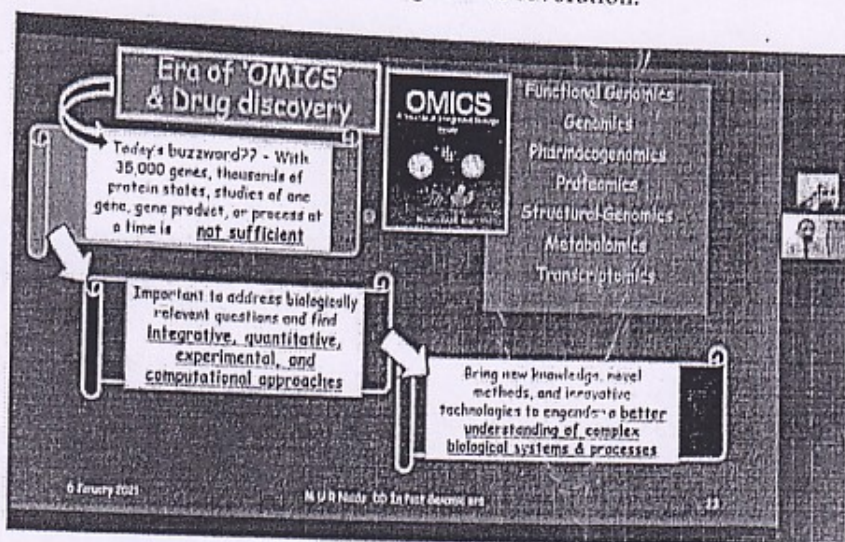


II Session - 11.00 AM - 12.30 PM

Dr. M.U.R. Naidu, Director, Natco Pharma Ltd, Hyderabad talked on the topic "Drug discovery & development in Post Genomic Era".

He exclusively explained that the genomic era has brought with it a basic change in experimentation, enabling researchers to look more comprehensively at biological systems. The advances in automation and parallelization technologies have afforded a fundamental transformation in the drug target discovery paradigm, towards systematic whole genome and proteome analyses. In conjunction with novel proteomic techniques, genome-wide annotation of function in cellular models is possible. Overlaying data derived from whole genome sequence, expression and functional analysis will facilitate the identification of causal genes in disease and significantly streamline the target validation process. Moreover, several parallel technological advances in small molecule screening have resulted in the development of expeditious and

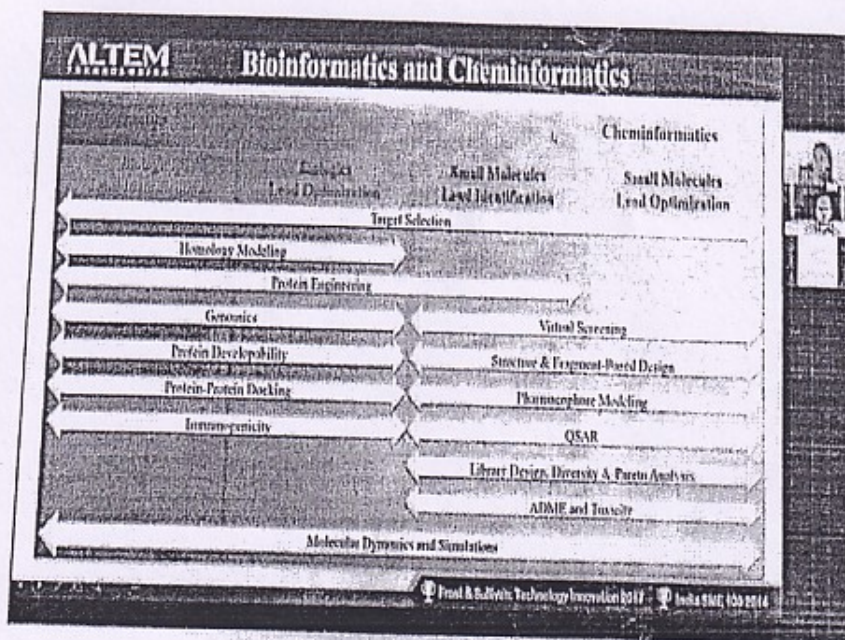
powerful platforms for elucidating inhibitors of protein or pathway function. Conversely, high-throughput and automated systems are currently being used to identify targets of orphan small molecules. The consolidation of these emerging functional genomics and drug discovery technologies promises to reap the fruits of the genomic revolution.



III Session – 1.30 PM – 3.00 PM

Dr. Arthi Venkatesan, Scientific Specialist, Altem Technologies, Bengaluru gave her lecture on the topic “Drug design and application of Biovia in life sciences”.

She conveyed to the audience that computer-Aided drug design accelerates and economizes drug discovery and drug manufacturing processes. It is considered an effective strategy. With the significant rise in the availability of information on small molecule and biological macromolecule, the efficiency of computer-aided drug discovery has been enhanced and is being extensively applied to almost every phase in drug discovery and manufacturing activities such as detecting targets, validation, lead discovery, and optimization & preclinical tests. Since the last few years, substantial developments have been observed in computer-aided drug discovery techniques including molecular similarity calculation, pharmacophore modeling and mapping, molecular docking, and sequence-based virtual screening, etc. Industries and also Government laboratories and Research centers are utilizing these applications for better results.



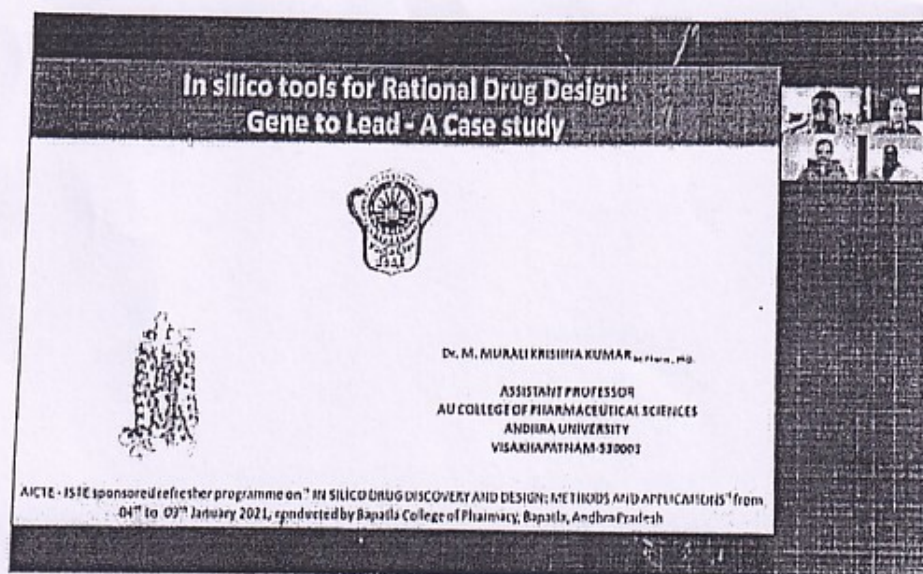
DAY - 4 07.01.2021 (THURSDAY)

I Session - 9.00 AM - 10.30 AM

Dr. Murali Krishna, Assistant Professor, College of Pharmaceutical Sciences, Andhra University, Visakhapatnam addressed the gathering on "In silico tools for drug discovery".

Computer-aided drug design (CADD) methodologies are playing an ever-increasing role in drug discovery that are critical in the cost-effective identification of promising drug candidates. These computational methods are relevant in limiting the use of animal models in pharmacological research, for aiding the rational design of novel and safe drug candidates, and for repositioning marketed drugs, supporting medicinal chemists and pharmacologists during the drug discovery path.

These in silico methods include databases, quantitative structure-activity relationships, homology models and other molecular modeling approaches, machine learning, data mining, network analysis tools and data analysis tools that use a computer. In silico methods are primarily used alongside the generation of in vitro data both to create the model and to test it. Such models have seen frequent use in the discovery and optimization of novel molecules with affinity to a target, the clarification of absorption, distribution, metabolism, excretion and toxicity properties as well as physicochemical characterization. He explained some of the in silico methods for pharmacology that are used in drug discovery. Further he emphasized on the applications of these methods to specific targets and their limitations.

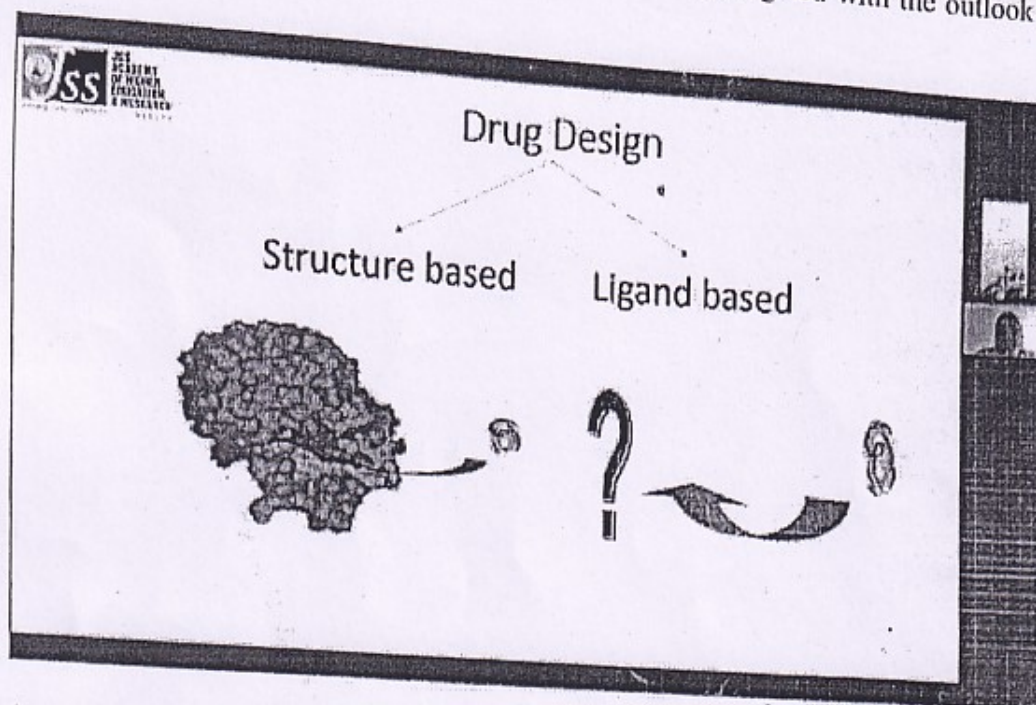


II session - 11.00 AM - 12.30 PM

Dr. S. Jubie, Department of Pharmaceutical Chemistry, JSS College of Pharmacy, Udhagamandalam presented his speech on "Molecular docking as a popular tool in drug design".

Molecular docking is a computational procedure that aims to predict the favored orientation of a ligand to its macromolecular target (receptor), when these are bound to each other to form a stable complex.

New molecular modeling approaches, driven by rapidly improving computational platforms, have allowed many success stories for the use of computer-assisted drug design in the discovery of new mechanism- or structure-based drugs. In his lecture he highlighted three aspects of the use of molecular docking. First, he discussed the combination of molecular and quantum mechanics to investigate an unusual enzymatic mechanism of a flavoprotein. Secondly, he presented recent advances in anti-infectious agents' synthesis driven by structural insights. At the end, he focused on larger biological complexes made by protein-protein interactions and discussed their relevance in drug design. His interaction with the gathering provided information on how these large systems, even in the presence of the solvent, can be investigated with the outlook of drug discovery.



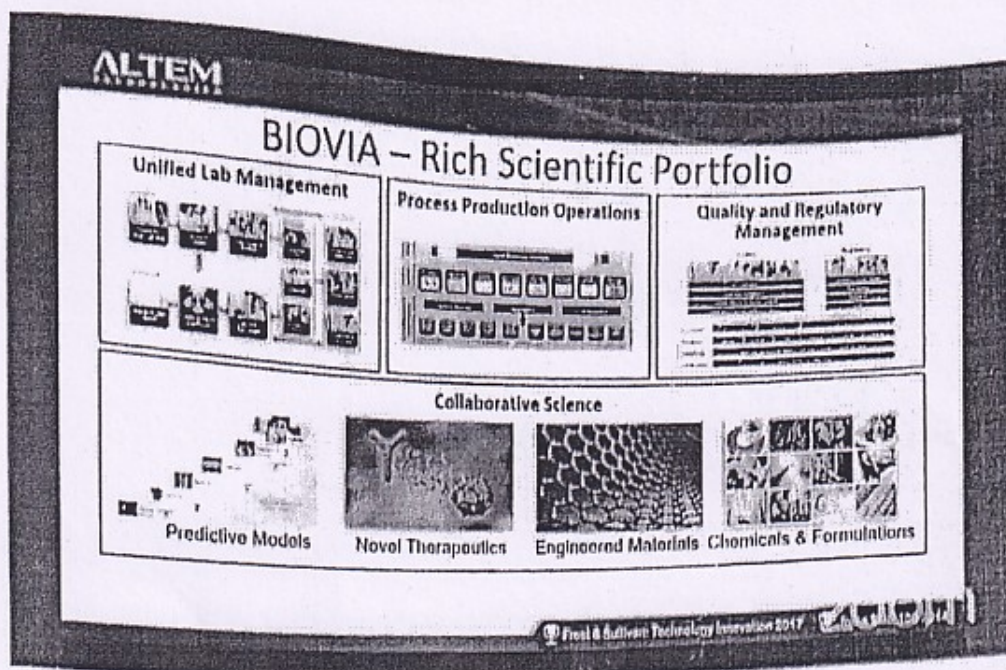
III Session – 1.30 PM – 3.00 PM

Dr. Dhivya S, Sr. Application Scientist, Altam Technologies, Bengaluru presented his dialogue on "Pharmacophore modeling and database screening – A lead optimization technique in LBDD".

LBDD is a general approach to elucidate the relationship of a compound's structure and physicochemical attributes to its biological activity. The resulting structure-activity relationship (SAR) may then act as the basis for the prediction of compounds with improved biological attributes.

Lead identification/optimization is the one of the most important steps in drug development. The chemical structure of the lead compound is used as a starting point for chemical modifications in order to improve potency, selectivity, or pharmacokinetic parameters. Once a molecule is identified, the next step is to check its ADMET (Adsorption, Distribution, Metabolism, Excretion and Toxicity) properties. If the molecule has no toxicity and no mutagenicity either, it has potential for use as lead molecule. Further optimization gives better quality of lead molecules. These may subsequently be developed as drug(s).

He clearly explained the usage of software in pharmacore designing and the importance & modeling by using Hypogen.



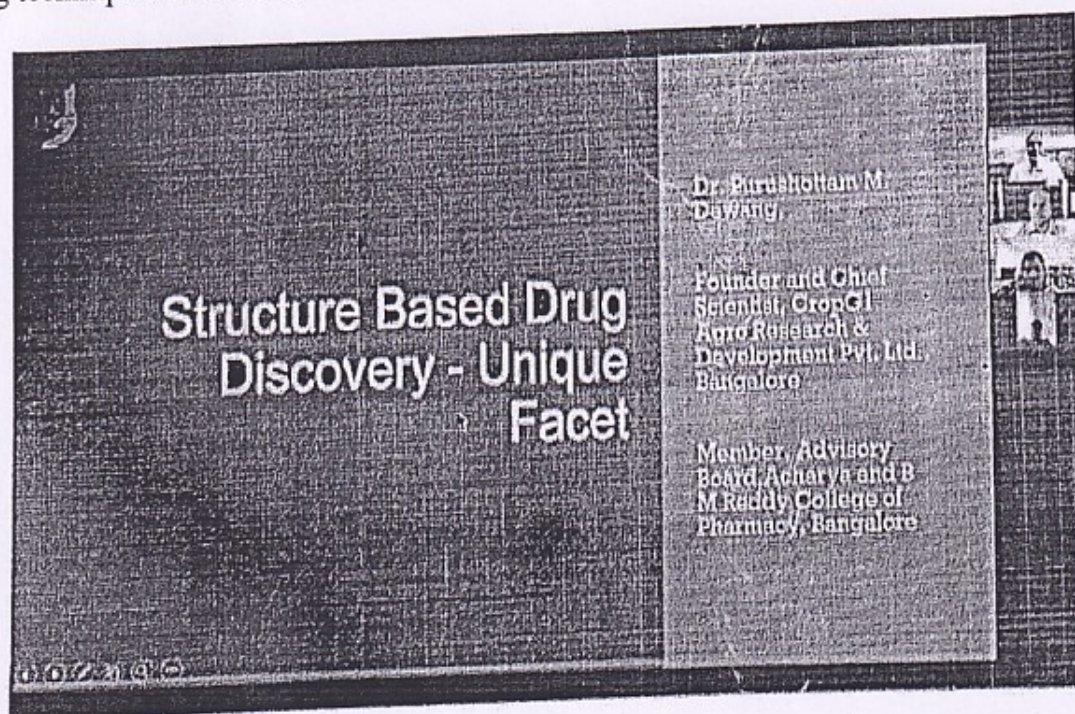
DAY 5 – 08.01.2021 (FRIDAY)

1 Session – 9.00 AM – 10.30 AM

Dr. Purushottam Dewang, Founder MD and Chief Scientist, Crop GI Agro Research & Development Pvt Ltd, Bengaluru gave a key note address on “Structure based drug design”.

Structure-based drug design is the design and optimization of a chemical structure with the goal of identifying a compound suitable for clinical testing — a drug candidate.

He illustrated the explosive growth in structure-based drug design in the last few years. He presented an overview of Drug discovery process, functional group importance and to achieve desired geometry of a molecule by using insilico drug techniques. He also emphasized on the binding techniques involved in the identification of new compounds.



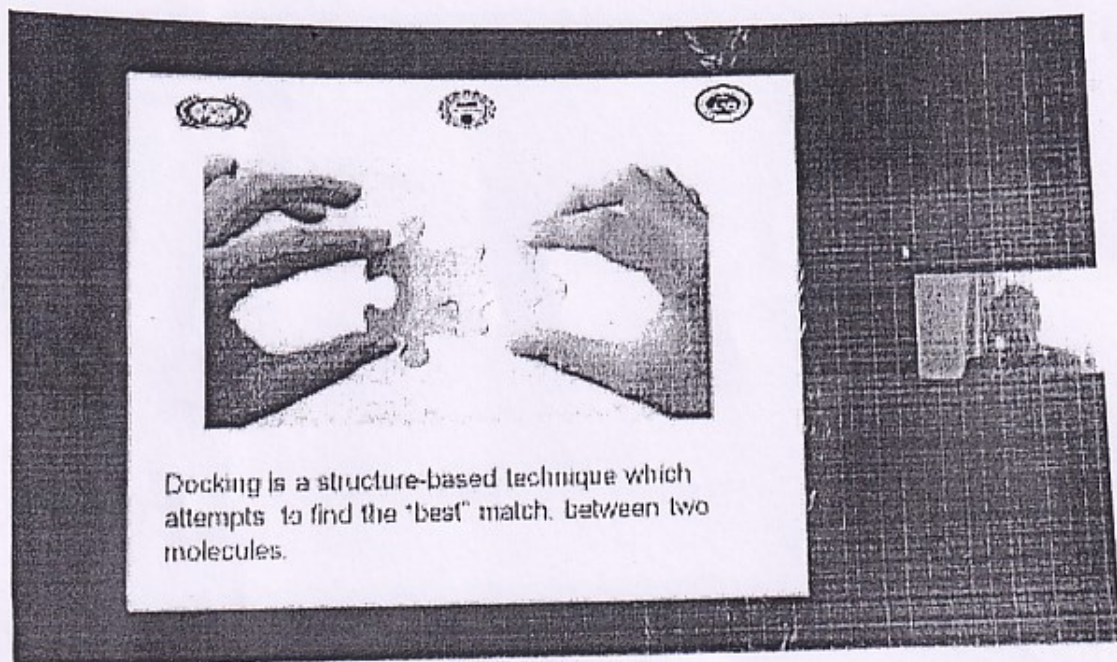
II Session – 11.00 AM – 12.30 PM

Dr. M. Sushil Kumar, Associate Professor, Maharani Lakshmi Ammanni College for Women, Bengaluru expressed his views on "Docking – A case study".

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.

He presented the applications of molecule docking and said that the Docking – structure based technique is the best technique in drug discovery

He explained in detail the common protein-ligand docking software like 1-click docking, AADS, ADAM, Auto Dock and others.



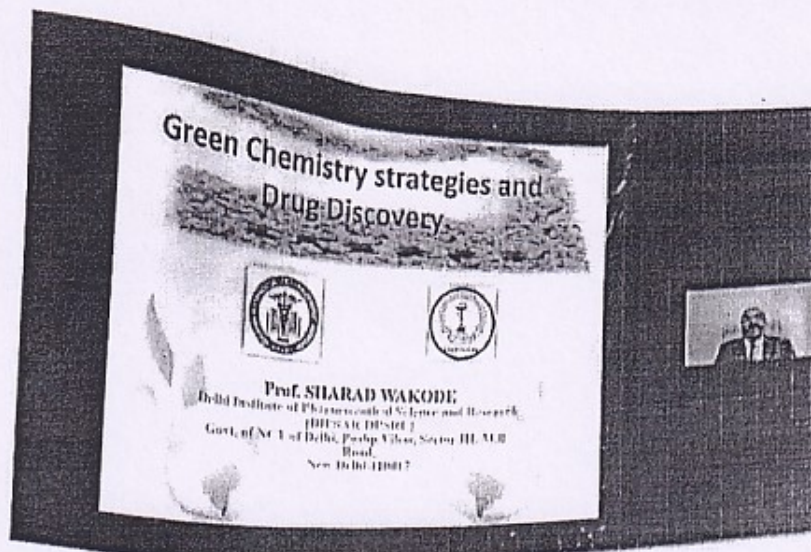
III Session – 1.30 PM – 3.00 PM

Dr. Sharad Wakode, Professor of Pharmaceutical Chemistry, DIPSAR, Govt of NCT of Delhi presented a lecture on "Role of Green Chemistry in Drug Discovery & Design".

The most simple and direct way to apply green chemistry in pharmaceuticals is to utilize eco-friendly, nonhazardous, reproducible, and efficient solvents and catalysts in the synthesis of drug molecules, and in researches involving synthetic chemistry.

He made it crystal clear to the audience the principles involved in the drug discovery and the advantages & barriers we come across.

Green drug synthesis was explained with examples with the usage of Insilco software.



DAY – 6 09.01.2021 (SATURDAY)

I Session – 9.00 AM – 10.30 AM

Dr. Sayan Dutta Gupta, Post Doctoral Researcher, Korea Institute of Science and Technology addressed the audience on “Artificial Intelligence tools in drug design and discovery”.

Artificial intelligence in Pharma refers to the use of automated algorithms to perform tasks which traditionally rely on human intelligence. Over the last five years, the use of artificial intelligence in the pharma and biotech industry has redefined how scientists develop new drugs, tackle diseases, etc.

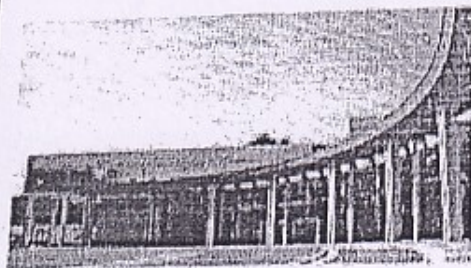
He explained the terminologies involved in artificial intelligence and the methodology in applying the artificial intelligence in the drug designing. Various databases to identify the new molecules for drug discovery was projected.

Implementation of python language was also very well presented.

Artificial Intelligence Tools in Drug Design



By
Dr. Sayan Dutta Gupta
Korea Research Fellowship (KRF) program postdoctoral fellow for
outstanding foreign scientist
Natural Product Informatics Research Center,
Korea Institute of Science and Technology (KIST) Gwangju Institute of
Natural Products, South Korea

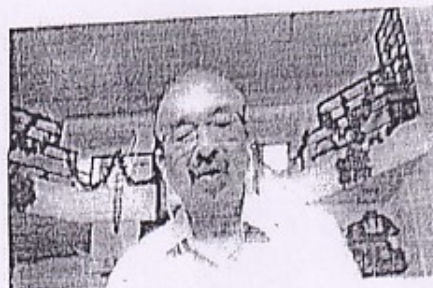


KIST
Korea Institute of
Science and Technology



Valedictory Session - 1.30 .p.m. - 2.00.pm

Dr. Nannapaneni Rajiv, Vice Chairman, NATCO, Dr. Vijay D Vidya, Secretary, ISTE, Col. D. Venkat, AICTE FDT Programme Director were present on the occasion. They addressed the gathering about the importance of the topic "In-silico drug discovery & design:: Methods & applications" selected for the refresher programme. They praised the organizing committee for the stupendous success of the programme and supposed that they look forward to such events in the days to come to abreast the pharmacists about the recent developments.





AICTE-ISTE REFRESHER PROGRAMMES PROFORMA



Title of the Programme: Insilico Drug Discovery Techniques

Institute Details

Institute Permanent ID No.	1-3514560210
Name of the Institute	BAPATLA COLLEGE OF PHARMACY
Institute detailed address	Bapatla College of Pharmacy K. Bapalem Bapatla Guntur 522101 Andhra Pradesh
Institute Discipline	Pharmacy
ISTE Institutional Membership Number of your institute	No
Institute Email ID	bcp.principal@gmail.com
Principal Email ID	bcp.principal@gmail.com
Telephone(With STD Code)	08643221407
Reference of Extension of Approval letter by AICTE for current year (2018-19) Letter No	1-3514560210
Reference of Extension of Approval letter by AICTE for current year (2018-19) date	14.01.2018
Number of programmes conducted in the years 2016-2017 & 2017-2018 for Self Financing	0
Number of programmes conducted in the years 2016-2017 & 2017-2018 for Financing	1
ISTE Chapter	No

Details of the Coordinator

Faculty ID	1-3585631797
Name of the Coordinator	No
Department	Pharmacology
Appointment Type(preference will be given to regular staff only)	Regular
Contact Details	Cell No.: 9966425564 Email: sudheerchoudary18@gmail.com
ISTE Life Membership Number& year of joining	0

Details of the Refresher Programmes

Title of the Programme	Insilico Drug Discovery Techniques
Tentative dates of the Programme	From: 02.04.2019 To: 02.05.2019
Technical area of the Programme	Pharmacology
Department under which Programme is to be conducted (AICTE approved course of the department is mandatory)	Pharmacology

Credentials of the Coordinator

PG	Yes	PIB	No
Teaching Experience in years	7	Industrial Experience in years	0

Research Experience in years	0	Papers published in National Journals during last 5 years	0
Papers published in International Journals during last 5 years	0	Number of Ph.D. Students Guided	0
Membership of the Professional/learned Bodies/Societies	1		
Awards	No	Details	
Number of Patents Registered	No	Details	
Relevant Experience of conducting/coordinating and/or programmes funded by MCTE and other funding agencies in past three years	No	Details	

Credential of the Organising Institute

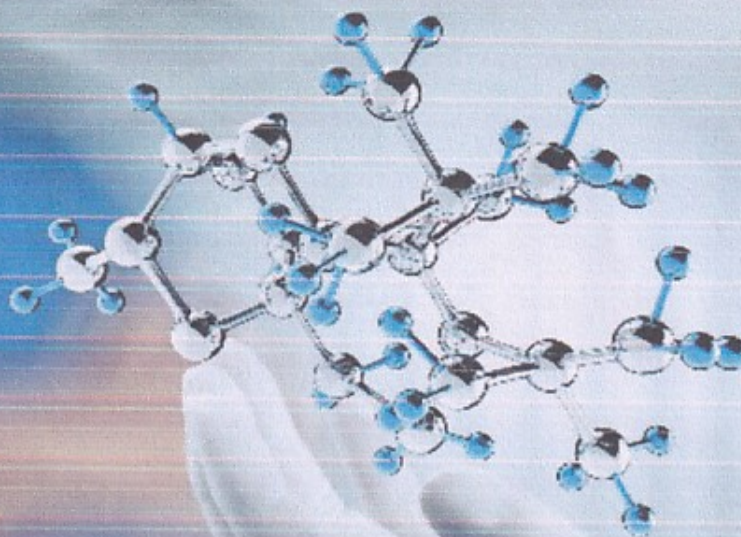
Type of Institute (Whether selected under TEQIP)	No	Number of years in existence	0
Number of courses Accredited in the Institute	0	Year of Accreditation	0
Status of the institute	non-Autonomous		

Credential of the Organising Department

Whether the course under which the proposal is submitted, accredited by NBA?	No
--	----

Credentials of Programme

Objectives & Context	1. Furnish the participants with an understanding the importance of various software tools in the Drug discovery process. 2. Gain of Knowledge regarding the advantages of various recent software's for drug discovery process. 3. Selection of an appropriate technology during the early stage of drug discovery processes. 4. Gain an understanding of how to use software for drug discovery and analyzing data.
Relevance	1. Computational methods have been in use for various forms of drug discovery like QSAR, Molecular Simulations, Molecular Docking, Virtual Screening and Structure-based drug designing methods. 2. Drug Designing is the inventive process of finding new medications based on understanding of the biological target.
Benefits to Faculty	The participants of the workshop will be accessing offline and online resources of macromolecule libraries, molecular docking, molecular simulations and novel drug discovery. They would also learn about prediction and analysis of various properties of compounds, bimolecular structure prediction, visualization, interaction analysis and Pharmacophore designing. The practical knowledge gained through this hands-on workshop will empower participants in the field of in-silico drug



(Estd.1995)



**AICTE-ISTE SPONSORED
REFRESHER PROGRAMME (Online Mode)
ON**

**IN-SILICO DRUG DISCOVERY & DESIGN:
METHODS & APPLICATIONS**

01st - 06th February, 2021 - Phase - II

Organized by

Department of Pharmacology

Bapatla College of Pharmacy

(Patronized by Bapatla Education Society)

BAPATLA , ANDHRA PRADESH.

Bapatla College of Pharmacy (BCOP) :

Bapatla College of Pharmacy started in the year 1995 by the Bapatla Education Society is forging ahead by offering UG & PG courses in pharmaceutical sciences. The institution aims to replace the traditional concept of teaching learning to outcome based education. The college has its own spectacular buildings with spacious well equipped laboratories, classrooms and experienced faculty. We are the first institute to offer M.Pharmacy programme under Jawaharlal Nehru Technological Univeristy from the year 2004. The college is located in a sprawling campus of 50 acres with the landscape of greenary. An inhouse R& D Centre, well designed air conditioned animal house approved by CPCSEA and medicinal garden with variety of medicinal plants are available. Recently our institution signed a MOU with SIPRA Labs Ltd, Hyderabad for academic, training, placement and research activities.

Department of Pharmacology:

The department of pharmacology is one of the mainstay of Bapatla College of Pharmacy, with its state-of-the-art equipments and experienced faculty who are engaged in multi disciplinary pharmaceutical research. It has been serving the needs of various departments which are involved in research and developement. The department provides quality preclinical and clinical education in pharmacology and therapeutics to B.Pharmacy and M.Pharm (Pharmacology) students.

The CPCSEA approved animal house which is the first of its kind in colleges affiliated to JNTU-Kakinada with its eminent IAEC (Institutional animal ethics committee) members who have paved the way for the smooth conductance of many research activities by the students and scholars of our college and as well as from other universities.



Objectives of the Program

1. To provide exposure to current research and development in drug discovery and design, which also encompasses technologies such as molecular dynamic simulation, molecular docking, CoMFA & CoMSIA, insilico tools, artificial intelligence, pharmacophore modelling and screening etc.
2. To impart knowledge and skill in developing various solutions for drug discovery.
3. To spawn a viable information regarding the technology used in the research at industry level.
4. To imbue faculty with knowledge regarding the applications of technology.

Programme Guidelines

- ❖ No Registration Fee.
- ❖ Programme will be conducted through online mode.
- ❖ ISTE Life Members will be given priority in registration (Contact ISTE through email : istehq@isteonline.org for membership).
- ❖ Any faculty member of AICTE approved institutions can be registered.
- ❖ Participants will be selected based on First come First Serve basis and selected participants will be intimated through E-mail.
- ❖ Minimum 80% attendance & 60 % marks are necessary for certification.
- ❖ Submission of feedback at the end of each day and overall feedback at the end of the programme is mandatory.
- ❖ An online test shall be conducted at the end of the program.

CHIEF PATRONS



Sri. B. VENKATA SIVA RAMA KRISHNA
ACTING PRESIDENT



Sri. M. NAGESWARA RAO
SECRETARY



Sri. P. BHAVANARAYANA CHOWDARY
JOINT SECRETARY & CORRESPONDENT



Sri. CH. VENKAIAH
TREASURER

PATRON



Dr. T.E.GOPALA KRISHNA MURTHY
PRINCIPAL

COORDINATOR

Mr. B.SUDHEER CHOWDARY
ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACOLOGY

ORGANISING COMMITTEE

Dr. M. SATHISH KUMAR – HOD (PHARMACOLOGY)

Mr. K. POORNA CHANDRA RAO – ASSISTANT PROFESSOR

Ms. S. SHOBHA – ASSISTANT PROFESSOR

Mrs. NEELAM BEGUM – ASSISTANT PROFESSOR

Mrs. Y. SUSHMA – ASSISTANT PROFESSOR

Mrs. M. ANNIE – ASSISTANT PROFESSOR

Mr. B. SRINIVASA RAO – ASSISTANT PROFESSOR



BAPATLA COLLEGE OF PHARMACY

(Patronised by Bapalla Education Society)

Six Days Online AICTE-ISTE Refresher Programme - Phase - II

on

In-silico Drug Discovery & Design: Methods & Applications Programme Schedule

Day -1 -01-02-2021 -Monday			
Programme Starts at 10.50.a.m.			
Inaugural Session			
1	10.50.a.m – 11.00.a.m.	Col B. Venkat Director (Faculty Development) AICTE New Delhi	Dr. Pratapsinh Kakasaheb Desai President Indian Society for Technical Education (ISTE) New Delhi
S.no	Time	Speaker	Topic
2	11.15. a.m. – 12.45.p.m.	Dr. Purushottam Dewang Founder MD and Chief Scientist CropG1 Agro Research & Development Pvt Ltd Bengaluru, Karnataka.	Structure Based Drug Discovery
	12.45.p.m. – 1.30.p.m.	Lunch Break	
3	1.30.p.m. – 3.00.p.m.	Prof. Dr. Harish Dureja Professor Department of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak-Haryana, INDIA.	Predicting pharmacokinetic parameters using <i>in silico</i> classification models.



BAPATLA COLLEGE OF PHARMACY
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on
In-silico Drug Discovery & Design: Methods & Applications
Programme Schedule

Day - 2 - 02-02-2021 - Tuesday			
S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	Dr. BR Prashantha Kumar Assistant Professor, Department of Pharmaceutical Chemistry JSS College of Pharmacy, SS Nagar, Mysore.	Learning Chemistry by Unlearning.
2	11.00. a.m. - 12.30.p.m.	Dr. Girinath G. Pillai Director, Zastra Innovations.	Gentotoxicity : SAR Models.
	12.30.p.m. - 1.30.p.m.	Lunch Break	
3	1.30.p.m. - 3.00.p.m.	Dr. Shankar G Alegaon Assistant Professor KLE College of Pharmacy Belagavi	Reverse Docking: Tool for the Identification of Molecular Targets.



BAPATLA COLLEGE OF PHARMACY
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Six Days Online AICTE-ISTE Refresher Programme
on
***In-silico* Drug Discovery & Design: Methods & Applications**
Programme Schedule

Day 4 - 04-02-2021 - Thursday			
S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	K. Varalakshmi Devi Assistant Professor Department of Pharmaceutical Chemistry Srikrishna Devaraya University Ananthapur	Molecular docking in modern drug discovery-An overview.
2	11.00. a.m. - 12.30.p.m.	Dr. Deepthi Jain Head School of Pharmaceutical Sciences UTD,RGPV - Bhopal	CADD : Opportunities and Challenges in the world of Drug discovery.
	12.30.p.m. - 1.30.p.m.	Lunch Break	
3	1.30.p.m. - 3.00.p.m.	Dr. J. Srikanth Assistant Professor Department of Pharmacology Sri Ramachandra Faculty of Pharmacy	<i>In Silico</i> Pharmacological and Toxicological Evaluation - A Pharmacologist perspective



BAPATLA COLLEGE OF PHARMACY
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Six Days Online AICTE-ISTE Refresher Programme - Phase II
on
In-silico Drug Discovery & Design: Methods & Applications
Programme Schedule

Day 6 - 06-02-2021 - Saturday		
S.no	Time	Speaker
1	09.00.a.m - 10.30.a.m.	Dr. Sayan Dutta Gupta Post Doctoral Researcher Korea Institute of Science and Technology (KIST).
		Topic Python based artificial intelligence in computational drug design.
2	11.00. a.m. - 12.30.p.m.	Dr. S. Mohana Roopan, Assistant Professor Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology.
		Topic Non-conventional approach to the synthesis of biologically important nitrogen ring junction heterocycles.
	12.30.p.m. - 1.30.p.m.	Launch Break
3	1.30.p.m.	Valedictory Session Guest of Honor Shri. Srihari Vellampalli Executive Director Sipra Labs
4	2.00.p.m.- 2.30.p.m.	Assessment and Feedback link will be given (Mandatory). After 2.30.p.m. link will be closed.

In-silico Drug Discovery and Design: Methods and Applications - 2020-21
Registration List

Sno	Mail ID	Name of the Participant	College Name	Designation	Department	State
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BAPATLA COLLEGE OF PHARMACY
Six Days Online ALU TE-STE Refresher Programme - Phase - I
on

In-silico Drug Discovery and Design: Methods and Applications (01-02-2021 to 06-02-2021)
Registration List

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Institute Drug Discovery and Design: Methods and Applications of R-D-Drugs (4- 1-1-1-1)
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Six Days Online AICTE-NTT Refresher Programme - Phase - II
on
In-silico Drug Discovery and Design: Methods and Applications (01-02-2020 to 06-02-2020)
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BAPATIA COLLEGE OF PHARMACY
Six Days Online AICTE-ISTE Refresher Programme - Phase - II
on

In-silico Drug Discovery and Design: Methods and Applications (01-02-2021 to 06-02-2021)
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T. Gopalakrishna

Principal
(Dr. T.E.Gopala Krishna Murthy)

T. Gopalakrishna

PRINCIPAL
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Bapatia 522 101

BAPATLA COLLEGE OF PHARMACY
5th Days Online AICTE-ISTE Refresher Programme - Phase - I
on

In-silico Drug Discovery and Design: Methods and Applications (01-02-2021 to 06-02-2021)
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BAPATLA COLLEGE OF PHARMACY

(Patronised by Bapatla Education Society)

Six Days Online AICTE-ISTE Refresher Programme

ON

In-silico Drug Discovery & Design: Methods & Applications

PROCEEDINGS OF ISTE REFRESHER PROGRAMME - Phase II

Day I - 01.02.2021 (Monday)

Inaugural session at 10.50 AM

Col B. Venkat, Director (Faculty Development) AICTE and Dr. Pratapsinh Kakasaheb Desai, President Indian Society for Technical Education (ISTE) were the Chief Guest(s) at the inaugural function.

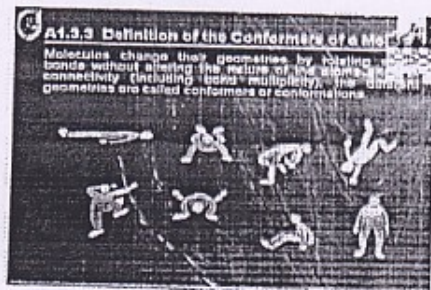
Col B. Venkat conveyed importance in the conducting the second phase of the program. He expressed that the faculty can acquire very profound knowledge by utilizing various eminent resource persons assume an integrated and accountable role in the technical aspects to improve the students knowledge and update the recent trends.

Dr. Pratapsinh Kakasaheb Desai conveyed his best wishes to organise the program and to make the faculty successful in their roles, and establishing relationships with the industry to upgrade their knowledge. If successfully executed, the relationship between the institution and the industry will enhance the mission of offering quality education. This will help in shaping the nation. He also addressed the importance of the online program during this critical times and utilisation of technology.

I Session - 11.15 AM - 12.45 PM

Dr. Purushottam Dewang, Founder MD and Chief Scientist, Crop GI Agro Research & Development Pvt Ltd, Bengaluru gave a key note address on "Structure based drug discovery".

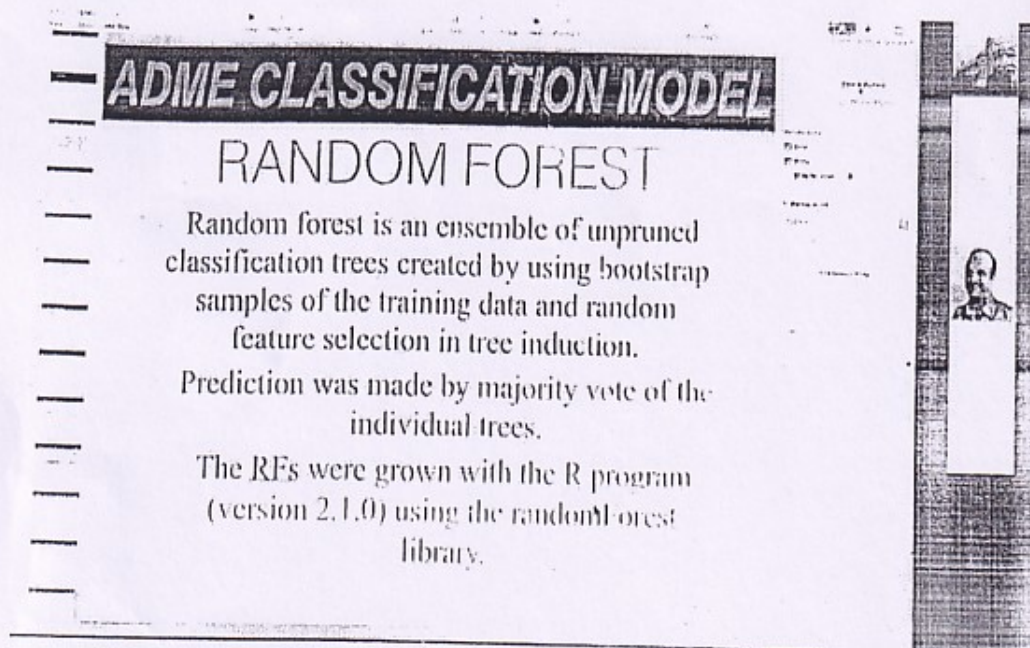
He illustrated the rigidification of molecules with various examples and its importance in the drug discovery process. He presented an overview of Drug discovery process. Good had rigidification, Rigidification of flexible molecule, SAR principle, Ring separation, functional group importance and to achieve desired geometry of a molecule by using insilico drug techniques. He also emphasized on the conformations of molecules, mixture of conformers, role of halogen atoms along with their binding techniques involved in the identification of new compounds.



II session – 1.30 PM – 3.00 PM

Dr. Harish Dureja , Professor, Department of Pharmaceutical Sciences , Maharshi Dayanad University, Rohtak, Haryana, India had presented his lecture on "predicting pharmacokinetic parameters using insilico models".

He reviewed the roles of drug discovery process, CADD, Insilico ADME in drug discovery, including the Classification models and free softwares to identify the ADME parameters. He explains the role of computer aided drug design in the drug discovery. Various software's like MEXALERT, RETROMAX, MOKA had been using for the identification of ADME parameters in various stages of drug discovery. With the help of the models we can predict the permeability nature, bioavailability, half life, volume of distribution, human intestinal absorption, metabolism, clearance of new drugs through blood brain barrier. The classification models includes Discriminant analysis, cluster analysis, Moving average analysis, Random forest are explained.



ADME CLASSIFICATION MODEL

RANDOM FOREST

Random forest is an ensemble of unpruned classification trees created by using bootstrap samples of the training data and random feature selection in tree induction.

Prediction was made by majority vote of the individual trees.

The RFs were grown with the R program (version 2.1.0) using the randomForest library.

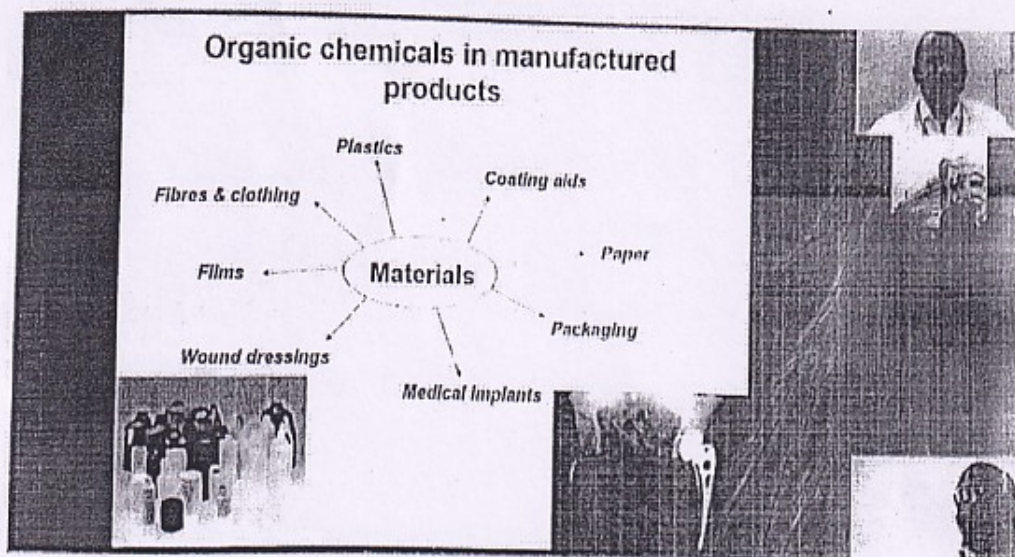
DAY – 2, 02.02.2021 (TUESDAY)

I Session : 9.00 AM – 10.30 AM

Dr. B R Prasantha Kumar, Assistant Professor, Dept. of Pharmaceutical Chemistry, JSS College of Pharmacy, Mysore addressed the audience on the topic "Learning chemistry by unlearning".

He emphasized the importance of public perception of chemistry. Even though it is decades old, it is still promising. He delivered the biological organic chemicals like sugars, proteins, fats & oils, vitamins, DNA & RNA, natural compounds. Organic chemicals in manufacture products involves the bioactive products and materials for manufacturing. He also emphasis importance of

water in the preparation of natural products and the insilico methods to evaluate the organic products.

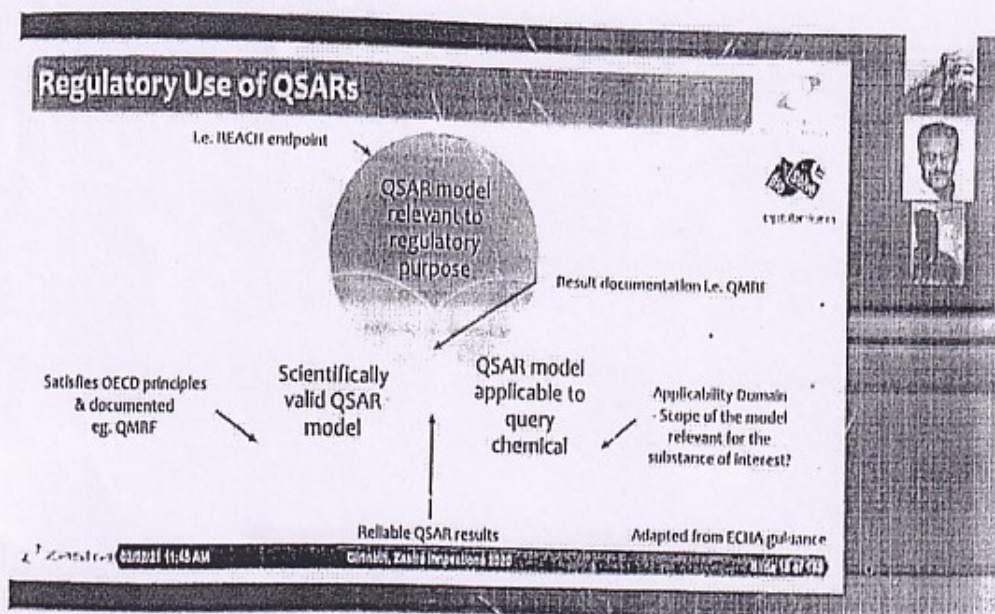


DAY - 2, 02.02.2021 (TUESDAY)

II Session : 11.00 AM - 12.30 PM

Dr. Girinath G. Pillai, Director, Zastra Innovations gave his valuable speech on the topic "Insilico predictions of Genotoxicity using Star Drop".

He expressed his view that the pharmacy had Big pharma drug discovery in 21st century for absorption, distribution, metabolism, and excretion (ADME) form an efficacy benchmark for various drug compounds. The evaluation of genotoxicity and the various genotoxins is critical for the selection of a new drug candidate during drug discovery and development. Various assesse predictive ability are conducted to make a go-no-go decision regarding QSAR model reporting format, QSAR prediction reporting format in the drug discovery. Regular improvements in the computational tools and the utilisation of its knowledge in the drug discovery phases. He discussed various drug discovery phases, application of CADD in the pharmacy and explaining the role of medicinal chemist in various stages includes computational chemist, informatician in procuring the new compounds. With the help of star drop we can design the number of compounds having the improved balance of properties. By using the data procured we can prioritize the compounds by identifying its potency, absorption and toxicity. He emphasized the various ADME and toxic properties of compound by using star drop. He explained the various endpoints of toxicity which are crucial in the drug discovery.



DAY - 2, 02.02.2021 (TUESDAY)

III Session : 1.30 PM – 3.30 PM

Dr. Shankar G Alegaon , Professor, Dept. of Pharmaceutical Chemistry, KLE College of Pharmacy, Belgavi addressed the audience on the topic “Reverse Docking : Tool for the identification of Molecular Targets”.

He emphasized what is molecular docking, importance of reverse or inverse docking and its applications in the drug discovery of new molecules. Even though it is decades old, it is still promising. He delivered the history of drug discovery and development and the computational prediction of identification of new lead molecules by reducing the number of wet lab experiments . Molecular docking is a very robust technique in the identification of potential interactions between small molecules and pharmacological targets.

Reverse Docking: Tool for the Identification of Molecular Targets

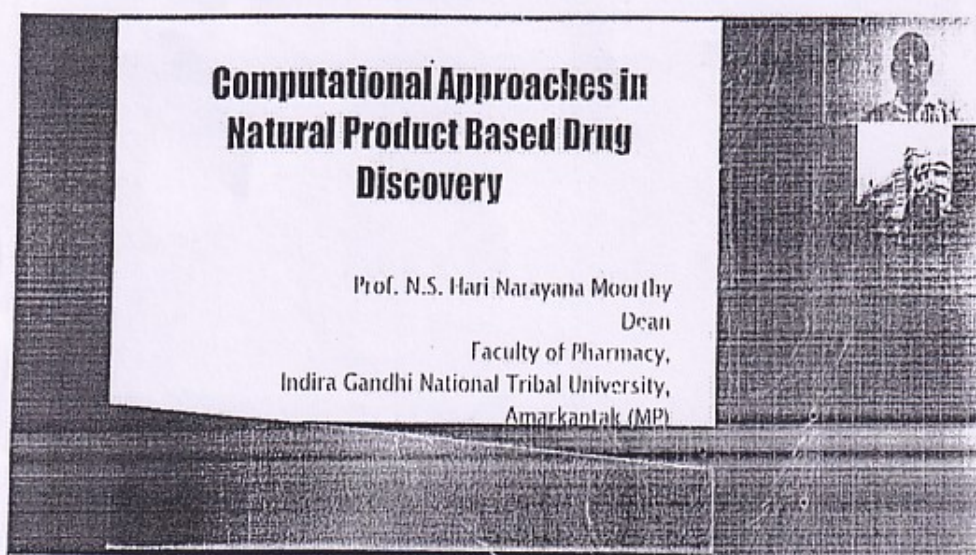
Shankar G. Alegaon
Professor & Head, Dept. of Pharmaceutical Chemistry
KLE College of Pharmacy, Belgavi

DAY - 3, 03.02.2021 (WEDNESDAY)

I Session : 9.00 AM - 10.30 AM

The 3rd day first session was addressed by Prof. N.S Hari Narayana Moorthy, Dean, Faculty of Pharmacy, Indira Gandhi National Tribal University, Amarkantak discussed the Computational Approaches in Natural Product based drug discovery.

He deliberately explained that we had witnessed the origin of medicinal chemistry, chronology order and drug discovery process and several scientific experiments with the aim to correlate the structure of chemical entities to their biological activities, toxicities and other molecular properties. Computational methods influencing the drug discovery were combinatorial chemistry, molecular modeling, insilico ADME methods, virtual screening etc. They play extremely important role in the field of chemistry, pharmacy, environmental toxicology and health research. Molecular simulation play important roles in the pharmacophore mapping. Pharmacophore discriptors explains the number of acidic atoms, basic atoms and number of hydrogen bonds present in it. He also emphasis the chemo informatics to identify the targets by using the database and explains with Aliskirin.

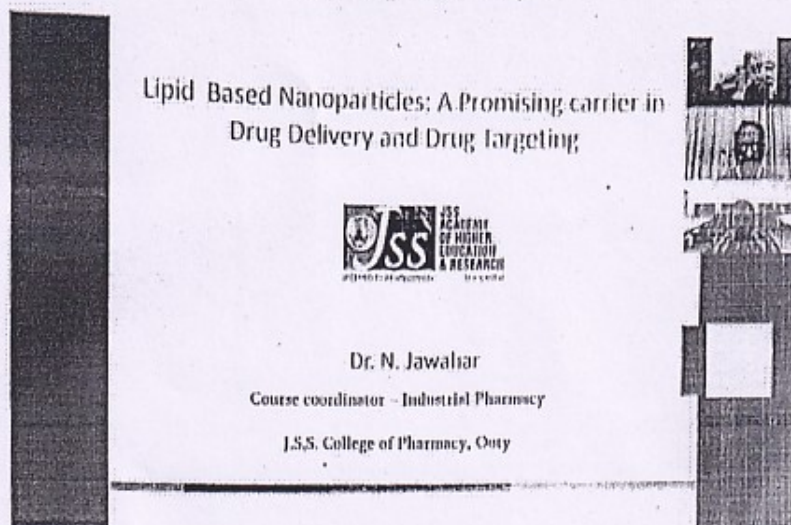


DAY - 3, 03.02.2021 (WEDNESDAY)

II Session : 11.00 AM - 12.30 PM

Dr. N. Jawahar, Associate Professor at JSS College of Pharmacy, Ooty shared his views on "Lipid based nanoparticles: A promising carrier in drug delivery and drug targeting". He emphasises the reasons for the therapy failure, potential role of drug delivery systems which improves the bioavailability and reduce toxicity. He explained the promising the approaches the nano drug delivery systems and its importance. The solid lipid nanoparticles contains the SLN/NLC matrix which are tiny colloids enhancing the drug load capacity, advantages and their

preparations. Various preparations methods are explained in the preparations of solid emulsion particles which is best for the GIT drug delivery with examples.

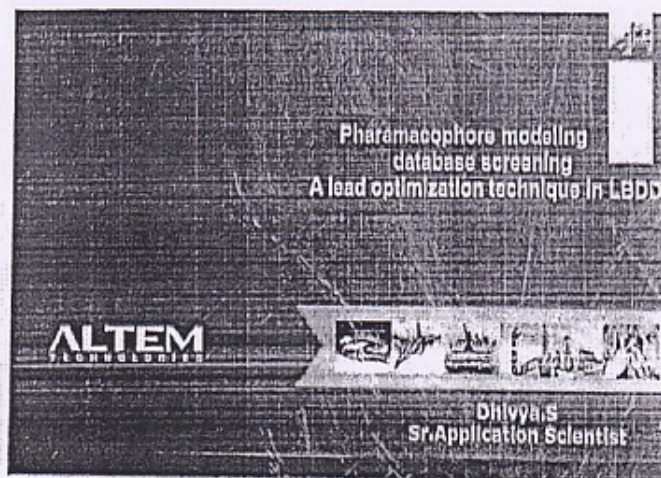


DAY - 3, 03.02.2021 (WEDNESDAY)

III Session : 1.30 PM - 3.30 PM

Dhivya. S , Sr Application Scientist talked on the topic " Pharmacophore modelling database screening: A lead optimising technique in LBDD".

She conveyed to the audience that computer-Aided drug design accelerates and economizes drug discovery and drug manufacturing processes. It is considered an effective strategy. With the significant rise in the availability of information on small molecule and biological macromolecule, the efficiency of computer-aided drug discovery has been enhanced and is being extensively applied to almost every phase in drug discovery and manufacturing activities such as detecting targets, validation, lead discovery, and optimization & preclinical tests. Since the last few years, substantial developments have been observed in computer-aided drug discovery techniques including molecular similarity calculation, pharmacophore modeling and mapping, molecular docking, and sequence-based virtual screening, etc. Industries and also Government laboratories and Research centers are utilizing these applications for better results.



DAY - 4, 04.02.2021 (THURSDAY)

I Session : 9.00 AM - 10.30 AM

Dr. k. Varalakshmi, HOD, SKU college of Pharmaceutical Sciences gave her lecture on the topic "Molecular Docking in Modern Drug Discovery An Overview".

She conveyed the drug discovery process and various definitions used in the *insilico*/Docking techniques. She explains the importance of docking which is a best method in the screening process. Need of docking and the goals of docking for the identification of lead molecules, there are various docking methods are utilized now a days. The software includes various components like search algorithm, scoring function was very well explained by her. Applications and benchmark in the docking studies are emphasized and audience that computer-Aided drug design accelerates and economizes drug discovery and drug manufacturing processes. It is considered an effective strategy. With the significant rise in the availability of information on small molecule and biological macromolecule, the efficiency of computer-aided drug discovery has been enhanced and is being extensively applied to almost every phase in drug discovery and manufacturing activities such as detecting targets, validation, lead discovery, and optimization & preclinical tests. *In silico* methods are primarily used alongside the generation of *in vitro* data both to create the model and to test it. Various softwares like molinspiration, swiss ADME, hands on training was instructed by the speaker.

AICTE - ISTE sponsored refresher programme on
IN SILICO DRUG DISCOVERY AND DESIGN: METHODS AND APPLICATIONS
Organized by
Bapatla college of Pharmacy, Bapatla, Andhra Pradesh



Molecular Docking in Modern Drug Discovery An Overview



K. Varalakshmi Devi, M. Pharm, (Ph.D)
HOD, Dept. of Pharmaceutical Chemistry
SKU College of Pharmaceutical Sciences
Sri Krishnadevaraya University, Anantapuram
Andhra Pradesh, India.
e-Mail: kvaralakshmidevi.kvd@gmail.com

He explained the importance of meditation to avoid stress in day to day life and the simple techniques to accrue good health.

heartful
campus



The Emergence of Light from Darkness

6

DAY – 5, 05.02.2021 (FRIDAY)

II Session : 10.30 AM – 11.00 AM

Dr. Jubie S, Assistant Professor, Department of Pharmaceutical Chemistry, JSS College of Pharmacy, Ootacamund on "Drug Repurposing: An Overview".

Drug Repurposing is involved in the identification, developing and commercialization new users for existing or abandoned drugs. She deals the overview, different approaches, advantages, challenges and experiences in the drug repurposing. She explains why the need of drug repurposing. Drug repurposing is needed to reduces the risk failure, time frame, covers the multiple targets in causing the disease ailments. Some of the drugs like zidovudine, minoxidil are one of the successful drugs origin from the drug repurposing. She emphasis the steps that approach the drug repurposing. The insilico repurposing can be done for protein bank and drug bank. After the identification of leads the next step is docking then further analysed to identify the hit molecule. She also explains the various approaches.

DAY - 6 06.02.2021 (SATURDAY)

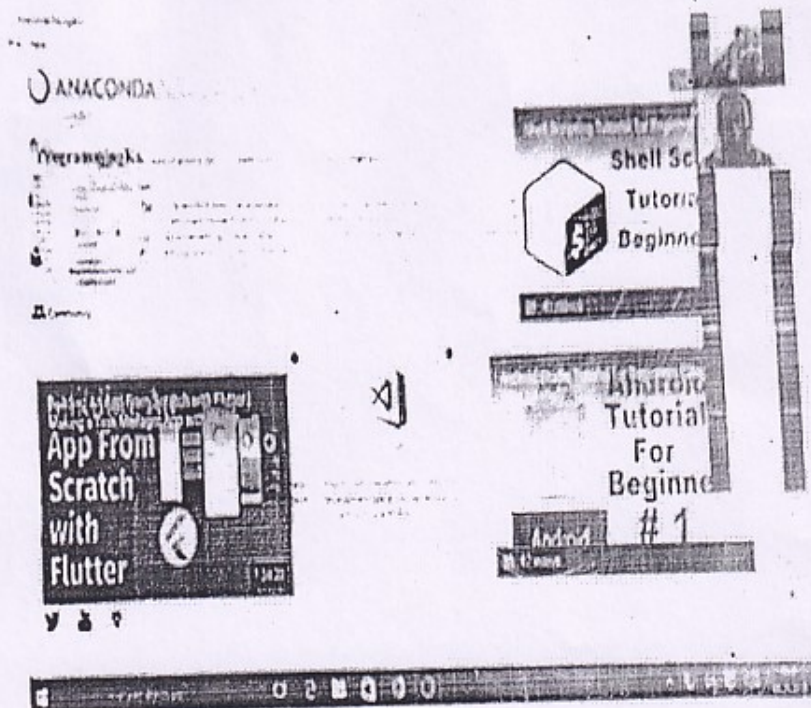
Session - 9.00 AM - 10.30 AM

Dr. Sayan Dutta Gupta, Post Doctoral Researcher, Korea Institute of Science and Technology addressed the audience on "Python based artificial intelligence in computational drug design."

Artificial intelligence in Pharma refers to the use of automated algorithms to perform tasks which traditionally rely on human intelligence. Over the last five years, the use of artificial intelligence in the pharma and biotech industry has redefined how scientists develop new drugs, tackle diseases, etc.

He explained the terminologies involved in artificial intelligence and the methodology in applying the artificial intelligence in the drug designing. Various databases like Anaconda to identify the new molecules for drug discovery was projected.

Implementation of python language was also very well presented.





(Estd.1995)



**AICTE-ISTE SPONSORED
REFRESHER PROGRAMME (Online Mode)
ON**

***IN-SILICO* DRUG DISCOVERY & DESIGN:
METHODS & APPLICATIONS**

01st - 06th March, 2021 - Phase - III

Organized by

Department of Pharmacology

Bapatla College of Pharmacy

(Patronized by Bapatla Education Society)

BAPATLA , ANDHRA PRADESH.

Bapatla College of Pharmacy (BCOP) :

Bapatla College of Pharmacy started in the year 1995 by the Bapatla Education Society is forging ahead by offering UG & PG courses in pharmaceutical sciences. The institution aims to replace the traditional concept of teaching learning to outcome based education. The college has its own spectacular buildings with spacious well equipped laboratories, classrooms and experienced faculty. We are the first institute to offer M.Pharmacy programme under Jawaharlal Nehru Technological Univeristy from the year 2004. The college is located in a sprawling campus of 50 acres with the landscape of greenary. An inhouse R& D Centre, well designed air conditioned animal house approved by CPCSEA and medicinal garden with variety of medicinal plants are available. Recently our institution signed a MOU with SIPRA Labs Ltd, Hyderabad for academic, training, placement and research activities.

Department of Pharmacology:

The department of pharmacology is one of the mainstay of Bapatla College of Pharmacy, with its state-of-the-art equipments and experienced faculty who are engaged in multi disciplinary pharmaceutical research. It has been serving the needs of various departments which are involved in research and developement. The department provides quality preclinical and clinical education in pharmacology and therapeutics to B.Pharmacy and M.Pharm (Pharmacology) students.

The CPCSEA approved animal house which is the first of its kind in colleges affiliated to JNTU-Kakinada with its eminent IAEC (Institutional animal ethics committee) members who have paved the way for the smooth conductance of many research activities by the students and scholars of our college and as well as from other universities.



Objectives of the Program

1. To provide exposure to current research and development in drug discovery and design, which also encompasses technologies such as molecular dynamic simulation, molecular docking, CoMFA & CoMSIA, insilico tools, artificial intelligence, pharmacophore modelling and screening etc.
2. To impart knowledge and skill in developing various solutions for drug discovery.
3. To spawn a viable information regarding the technology used in the research at industry level.
4. To imbue faculty with knowledge regarding the applications of technology.

Programme Guidelines

- ❖ No Registration Fee.
- ❖ Programme will be conducted through online mode.
- ❖ ISTE Life Members will be given priority in registration (Contact ISTE through email : istehq@isteonline.org for membership).
- ❖ Any faculty member of AICTE approved institutions can be registered.
- ❖ Participants will be selected based on First come First Serve basis and selected participants will be intimated through E-mail.
- ❖ Minimum 80% attendance & 60 % marks are necessary for certification.
- ❖ Submission of feedback at the end of each day and overall feedback at the end of the programme is mandatory.
- ❖ An online test shall be conducted at the end of the program.

CHIEF PATRONS



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ACTING PRESIDENT



Sri. M. NAGESWARA RAO
SECRETARY



Sri. P. BHAVANARAYANA CHOWDARY
JOINT SECRETARY & CORRESPONDENT



Sri. CH. VENKAIAH
TREASURER

PATRON



Dr. T.E. GOPALA KRISHNA MURTHY
PRINCIPAL

COORDINATOR

Mr. B. SUDHEER CHOWDARY
ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACOLOGY

ORGANISING COMMITTEE

Dr. M. SATHISH KUMAR - HOD (PHARMACOLOGY)

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Ms. S. SHOBHA - ASSISTANT PROFESSOR

Mrs. NEELAM BEGUM - ASSISTANT PROFESSOR

Mrs. Y. SUSHMA - ASSISTANT PROFESSOR

Mrs. M. ANNIE - ASSISTANT PROFESSOR

Mr. B. SRINIVASA RAO - ASSISTANT PROFESSOR



BAPATLA COLLEGE OF PHARMACY

(Patronised by Bapatla Education Society)

Six Days Online AICTE-ISTE Refresher Programme - Phase - III

ON

In-silico Drug Discovery & Design: Methods & Applications Programme Schedule

Day -1 -01-03-2021 -Monday			
Programme Starts at 10.50.a.m.			
1	10.30.a.m	Inaugural Session	
		Chief Guest Prof. Vijay D. Vaidya Executive Secretary, ISTE - New Delhi.	
S.no	Time	Speaker	Topic
2	11.00. a.m. - 12.30.p.m.	Dr. Pritesh Bhat Senior Scientist Schrodinger Bangalore.	Introduction to computation drug design-Basics/Case studies
	12.45.p.m. - 1.30.p.m.	Lunch Break	
3	1.30.p.m. - 3.00.p.m.	Mr. Vinod Devaraji Senior Scientist Schrodinger Bangalore.	Hit or Lead Optimization of small molecules using 3D QSAR for screening small molecules derivatives.

T. Gopalakrishnan

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Bapatla 522 101



BAPATLA COLLEGE OF PHARMACY
(Patronised by Bapatla Education Society)
Six Days Online AICTE-ISTE Refresher Programme - Phase - III
ON
In-silico Drug Discovery & Design: Methods & Applications
Programme Schedule

Day - 2 - 02-03-2021 – Tuesday			
S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	Dr. Srikanth Jupudi Lecturer, Dept. of Pharmaceutical Chemistry, JSS College of Pharmacy Ooty.	A step by step protocol for running molecular dynamics simulation using "GROMACS"
2	11.00. a.m. - 12.30.p.m.	Dr. Sajitha Lulu Sr. Assistant Professor, Vellore Institute of Technology, Vellore.	Network Pharmacology
	12.30.p.m. – 1.30.p.m.	Lunch Break	
3	1.30.p.m. - 3.00.p.m.	Dr. Shanish Antony Assistant Professor Govt. Medical College Kottayam Kerala	Translational Pharmacy: Indian Practice Perspective

T. G. Kalathur

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Six Days Online AICTE-ISTE Refresher Programme - Phase - III
on
***In-silico* Drug Discovery & Design: Methods & Applications**
Programme Schedule

Day 3 - 03-03-2021 -Wednesday			
S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	Dr. P.V.Bharatham Professor Department of Medicinal Chemistry NIPER - Mohali	3D Thinking: <i>In-Silico</i> Drug Discovery and Design.
2	11.00. a.m. - 12.30.p.m.	Dr. Manali Joshi Assistant Professor Bioinformatics center Pune Univeristy.	<i>Insilico</i> approaches for personalized medicine.
	12.30.p.m. - 1.30.p.m.	Lunch Break	
4	1.30.p.m. - 3.00.p.m.	Mr. Vadivel Professor & HOD Smt Gandhimathi College of Pharmacy Tiruvannamalai Tamilnadu	<i>Insilico</i> prediction of pharmacokinetic and tonicity profile in drug discovery process.


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Six Days Online AICTE-ISTE Refresher Programme- Phase - III
on
***In-silico* Drug Discovery & Design: Methods & Applications**
Programme Schedule

Day 4 - 04-03-2021 - Thursday			
S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	Dr. Koushik Kasavajhala Senior Scientist Schrodinger Bangalore.	How you can use MD simulations to design good drug molecules?
2	11.00. a.m. - 12.30.p.m.	Dr. Prajwal Nandekar Senior Scientist Schrodinger Bangalore.	Protein homology modeling and its application in drug design.
	12.30.p.m. - 1.30.p.m.	Lunch Break	
3	2.30.p.m. - 4.00.p.m.	Dr. Bharath Research Head, Computational Biology, Atrimed Biotech LLP, Bangalore.	Perspectives and prospects of CADD



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Six Days Online AICTE-ISTE Refresher Programme - Phase - III

on

In-silico Drug Discovery & Design: Methods & Applications
Programme Schedule

Day 5 - 05-03-2021 - Friday			
S.no	Time	Speaker	Topic
1	09.00.a.m - 10.30.a.m.	Dr. Bibin G. Anand Postdoctoral Researcher Department of medicine University of Alberta. Edmonton Canada..	Computational approaches for understanding the amyloidogenesis and its biological significance
2	11.00. a.m. - 12.30.p.m.	Dr. Lavanya Gunamalai Postdoctoral Researcher Dr.Noam Alkan Lab State of Israel.	<i>Insilico</i> Drug repurposing
	12.30.p.m. - 1.30.p.m.	Lunch Break	
3	1.30.p.m. - 3.00.p.m.	Dr. Sudharsan Pandiyan Senior Scientist Schrodinger Bangalore.	Quantum mechanics in computational drug discovery.

T. Gubalathur

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Six Days Online A.C.TE-NSTE Refresher Programme - Class - 1000
In-silico Drug Discovery and Design: Methods and Applications (01-03-2021 to 06-03-2021)
Awarded List

15	Kishorkumar Sorathia	Assistant Professor	Faculty of Pharmacy, Dharmasinh Desai University, Nadiad	100	85
16	Shital Ravindra Rajput	Assistant professor	K.V.P.S. institute of pharmaceutical education	100	90
17	Shiny Ganji	Associate professor	St Ann's College of pharmacy chirala	100	90
18	Dr.Thanuja B	Assistant professor	Sri Sairam Engineering College	100	75
19	Dr. Aziz Ahmed	Professor in Pharmacognosy	Jaipur College of Pharmacy	100	80
20	Dr. Trupti Ashok Powar	Assistant Professor	Smt. Kashibai Navale College of Pharmacy, Kondhwa, Pune.	100	85
21	Miss. Sneha Shankar Sakhare	Assistant Professor	TPCT's College of Engineering, Department of Pharmacy, Osmanabad	100	75
22	Mr. DEEPAK SHRIVASTAVA	ASSISTANT PROFESSOR	NMT GUJARATI COLLEGE OF PHARMACY INDORE	100	75
23	Dr.Thanuja B	Assistant Professor	Sri sairam engineering college	100	75
24	Dinal V Patel	Assistant Professor	Faculty of Pharmacy, Dharmasinh Desai University	100	80
25	Tanvir Yusuf Shaikh	Assistant Professor	SMT SHARADCHANDRIKA SURESH PATIL COLLEGE OF PHARMACY CHOPDA DIST JALGAON MAHARASHTRA	100	75
26	Shaikh Siraj Nawaj	Associate professor	Ali Allana Pharmacy college Akkalkuwa distric Nandurbar maharashtra	100	75
27	Mrunali Ramesh Patil	Assistant Professor	SVKM's IOP Dhule	100	75
28	Yogesh Prakashrao Kulkarni	Assistant professor	Dayanand college of pharmacy Latur Maharashtra	100	75
29	Birajdar Mahesh J	Assistant Professor	Dayanand College of Pharmacy, Latur	100	75

BAPATLA COLLEGE OF PHARMACY

Days Online AICTE-ISTE Refresher Programme - Phase - I on
Discovery and Design: Methods and Applications (01-03-2021 to 06-03-2021)

Awarded List

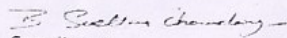
essor	Dayanand College of Pharmacy Latur	100	80
essor	Hi tech college of pharmacy Chandrapur	100	80
essor	SVPM college of Pharmacy, Malegaon, Baramati	100	85
essor	Hi-Tech College of Pharmacy Chandrapur	100	80
essor	Hi-tech College of Pharmacy Chandrapur	100	85
essor	Hi-tech College of Pharmacy Chandrapur	100	65
stant professor	Faculty of pharmacy, Dharmsinh Desai University, Nadiad, Gujarat	100	70
rofessor	V.V. Institute of pharmaceutical sciences	100	75
rofessor	V. V. Institute of pharmaceutical sciences	100	75
Professor	V. V. Institute of Pharmaceutical Sciences	100	75
Professor	APMC College of Pharm. Edu & Research	83	65
t Professor	V V Institute Of Pharmaceutical Sciences	100	75
nt Professor	Rajal Shri G M Bilakhia College of Pharmacy, Vapi	100	75
nt professor	Royal college of pharmacy	100	75
ant Professor	Smt. Kashibai Navale College of Pharmacy, Kondhwa, Pune	100	85
		100	70

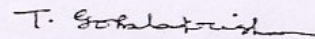
B. PHARMACY COLLEGE OF PHARMACY
Six Days Of the 30th ISTE Refresher Programme - Phase - 1
In-silico Drug Discovery and Design: Methods and Applications (01-03-2021 to 06-03-2021)
Awarded List

62	Lavanya Daddale	Associate professor	Seven hills college of pharmacy	100	75
63	KAYATHIRI DHANDAPANI	ASSISTANT PROFESSOR	SHRI VENKATESWARA COLLEGE OF PHARMACY	100	75
64	vivek kumar sharma	associate professor	govt college of pharmacy rohr distt shimla	100	80
65	Dr. Venkata Suresh, Jilakara	Professor	Bapatla College of Pharmacy	100	90
66	Dr. HemantKumar J. Dhongade	Professor	Laddhad College of Pharmacy Yelgaon Buldana	100	70
67	Varsha Balkrishna Mane	Assistant Professor	Satara College of Pharmacy, Satara	100	75
68	P.Venkateswara Rao	Associate professor	Vikas college of pharmacy	100	65
69	Tadiboina Ganga Sri	Assistant professor	Bapatla Engineering College Bapatla	100	90
70	ANSARI AZIM ZAKIR	Assistant Professor	Shri Vile Parle Kelavani Mandal's Institute of Pharmacy, Dhule	100	65
71	Dr.Reena Gupta	asst.prof	GLA UNIVERSITY	100	80
72	Dr.Reena Gupta	Assistant Professor	Institute of Pharmaceutical Research GLA University, Mathura	100	80
73	GADGUL AJAY BABURAO	Assistant Professor	Dayanand College of Pharmacy	100	80
74	Srinivasarao Bontagarla	Assistant professor	Bapatla college of pharmacy	100	90
75	Mrs.Priyadarsini pullagura	Assistant professor	Bapatla Engineering College Bapatla	100	90
76	Dr. K. Mangamma	Asst. Professor	School of pharmaceutical sciences and technologies jntuk, kakinada	100	90
77	Jasti Vasavi	Assistant professor	Malineni Perumallu Educational Society group of institutions	83	80
78	machavarapu saisowjanya	Assistant professor	Malineni Perumallu Educational Society group of institutions	83	80

BAPATLA COLLEGE OF PHARMACY
Six Days Online AICTE-ISTE Refresher Programme - Phase - III on
In-silico Drug Discovery and Design: Methods and Applications (01-03-2021 to 06-03-2021)
Awarded List

79	anurag singh	Assistant professor	Sagar institute of research and technology pharmacy Bhopal	100	85
80	P Naresh Babu	Associate professor	Retam Institute of Pharmacy	100	80
81	Ch Sushma	Assistant Professor	Bapatla College of Pharmacy	100	90


Coordinator
(B.Sudheer Chowdary)


Principal
(T.E.Gopala Krishna Murthy)


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Six Days Online AICTE-ISTE Refresher Programme

ON

In-silico Drug Discovery & Design: Methods & Applications

PROCEEDINGS OF ISTE REFRESHER PROGRAMME - Phase - III

Day I – 01.03.2021 (Monday)

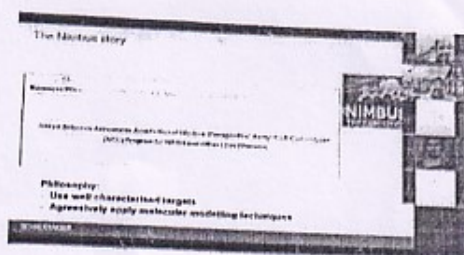
Inaugural session at 10.50 AM

Dr. Prof. Vijay D. Vaidya, chief secretary- Indian Society for Technical Education (ISTE) were the Chief Guest(s) at the inaugural function.

Dr. Prof. Vijay D. Vaidya conveyed his best wishes to organise the program and to make the faculty successful in their roles, and establishing relationships with the industry to upgrade their knowledge. If successfully executed, the relationship between the institution and the industry will enhance the mission of offering quality education. This will help in shaping the nation. He also addressed the importance of the online program during this critical times and utilisation of technology.

1 Session – 11.00. a.m. – 12.30.p.m.

Dr. Pritesh Bhat Senior Scientist Schrodinger Bangalore, gave a key note address on "Introduction to computation drug design-Basics/Case studies". He illustrated the various software tools for the drug discovery tools like PYMOL, BIOLOGICS, SMALL MOLECULE DRUG DISCOVERY, MATERIAL SCIENCE, DISCOVERY INFORMATICS. The software's utilized to understand the protein structure which is important for the disease pathophysiology. He illustrated the active and inactive forms of proteins, their bonding nature, inhibitions activity of proteins can be estimated. He presented how the drugs identification process is very hard and the time spent in the investigation of drugs can be reduced by the CADD. He explained the molecular modeling techniques classification, types and their applications in drug discovery. He emphasized what is molecular docking, importance of reverse or inverse docking and its applications in the drug discovery of new molecules. Even though it is decades old, it is still promising. He emphasized the components of docking programme and the usage of glide software. He clearly give a detail note on ACE Inhibitor identification.



II session – 1.30 PM – 3.00 PM

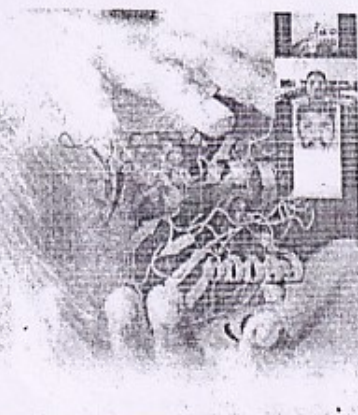
Mr. Vinod Devaraji Senior Scientist Schrodinger Bangalore emphasized that if you are a chemist and in the case for a given therapeutic project which has no 3D crystal structure or minimal protein-centric data and a set of active ligand molecules is known for the macromolecular target and tasked to perform therapeutic and toxicity optimization then ligand-based computational techniques would opt to use. More specifically, quantitative structure-activity relationship (QSAR) methods are among the first insilico methods to use. As new compounds are assayed, additional experimental data are used to refine the model to focus on critical promising molecules. In recent years the computational approach has been used in the pharmaceutical industry to benefit medicinal chemistry efforts. The talk would focus from basic to advanced discussion on explaining in detail the theoretical and application aspects of Hit or Lead Optimization using 3D Field-based QSAR.

SCHRÖDINGER

3D QSAR & Pharmacophore modelling

Presentation

Vinod Devaraji
Sr. Scientist
Schrodinger



DAY – 2, 02.03.2021 (TUESDAY)

I Session : 9.00 AM – 10.30 AM

Dr. Srikanth Jupudi Lecturer, Dept. of Pharmaceutical Chemistry, JSS College of Pharmacy, Ooty gives a lecture on A step by step protocol for running molecular dynamics simulation using "GROMACS". He emphasized Molecular dynamics (MD) simulation is a computational approach which investigates atomic location in a space. It became an invaluable tool for studying

T. G. Kelakurthi

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BAPATLA COLLEGE OF PHARMACY

(Sponsored by Bapatla Education Society), (Recognized by A.I.C.T.E&PCI)

(Affiliated to Jawaharlal Nehru Technological University, Kakinada)

Bapatla, Guntur (Dist.), Andhra Pradesh -522101

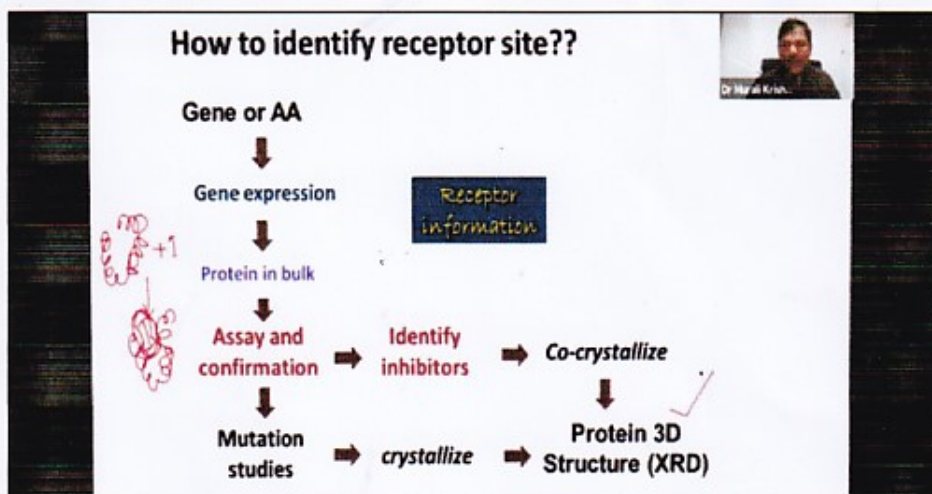
Faculty Development Program

Academic Year:2020-2021



DOCKING GLOSSARY

- **Receptor or host or lock:** The "receiving" molecule, most commonly a protein or other biopolymer.
- **Ligand or guest or key:** The complementary partner molecule which binds to the receptor. Ligands are most often small molecules but could also be another biopolymer.
- **Docking:** Computational simulation of a candidate ligand binding to a receptor.
- **Binding mode:** The orientation of the ligand relative to the receptor as well as the conformation of the ligand and receptor when bound to each other.
- **Pose:** A candidate binding mode.
- **Scoring:** The process of evaluating a particular pose by counting the number of favorable intermolecular interactions such as hydrogen bonds and hydrophobic contacts.
- **Ranking:** The process of classifying which ligands are most likely to interact favorably to a particular receptor based on the predicted free-energy of binding.



T. Gopalakrishna

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Computer Aided drug design

Classification

- 1) Structure based drug design
- 2) Ligand based drug design



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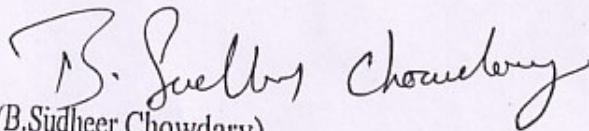
Six Days Online AICTE-ISTE Refresher Programme

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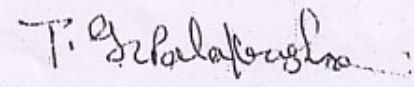
In-silico Drug Discovery & Design: Methods & Applications
Proceedings of Programme

OUTCOME:

- The Refresher course provides opportunities for serving teachers to exchange experiences with their peers and mutually learns from each other.
- It will be a forum to abreast of the latest advances in the subjects, technological spin off etc.
- It is practical that capacity building in teachers is normally neglected which could result in unpleasant educational outcomes.
- To address this gap, refresher training programme is essential for updating knowledge, as well as, understanding contemporary nuances of education.
- Learning is a gradual process, and therefore, teachers must learn a lot more to be able to continuously respond adequately to the changing requirements of the learners, such as, their background, aspirations and learning styles.
- By organizing such refresher programmes, the participants will get profound academic input and exposure that will be useful for their future growth and the societal change.


(B.Sudheer Chowdary)

Signature of Coordinator


T.E.Gopala Krishna Murthy

Signature of Principal



Certificate



This is to certify that **G. PAVANIPRIYA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"In-silico Drug Discovery and Design: Methods and Applications"*** held during **01.02.2021** to **06.02.2021** organized by ***Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.***

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

Program Coordinator
BCP, Bapatla

Principal
BCP, Bapatla

PRINCIPAL

Bapatla College of Pharmacy

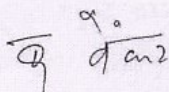
Bapatla



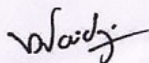
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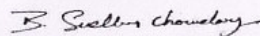
This is to certify that **GANNA ANITHA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***“In-silico Drug Discovery and Design: Methods and Applications”*** held during **01.02.2021** to **06.02.2021** organized by ***Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.***



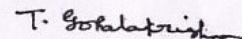
Director (FDC)
AICTE, ND



Executive Secretary
ISTE, ND



Program Coordinator
BCP, Bapatla



Principal
BCP, Bapatla


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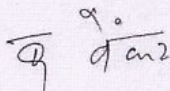
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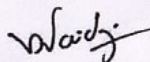
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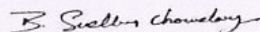
This is to certify that **KN RAJINI KANTH** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***“In-silico Drug Discovery and Design: Methods and Applications”*** held during **01.02.2021** to **06.02.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**



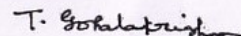
Director (FDC)
AICTE, ND



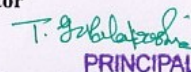
Executive Secretary
ISTE, ND



Program Coordinator
BCP, Bapatla



Principal
BCP, Bapatla


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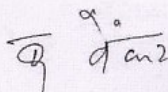
Bapatla College of Pharmacy
Bapatla, Andhra Pradesh



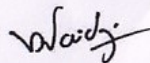
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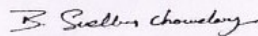
This is to certify that **venu babu chennupati** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on **"In-silico Drug Discovery and Design: Methods and Applications"** held during **01.02.2021 to 06.02.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**



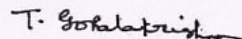
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Bapatla - 522 101



Certificate



This is to certify that **NEELAM BEGUM** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on **“In-silico Drug Discovery and Design: Methods and Applications”** held during **01.02.2021** to **06.02.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**

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AICTE, ND

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ISTE, ND

Program Coordinator
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Bapatla - 522 101



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This is to certify that **VENKATESWARA RAO TANNERU** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"In-silico Drug Discovery and Design: Methods and Applications"*** held during **04.01.2021 to 09.01.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**

Director (FDC)
AICTE, ND

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ISTE, ND

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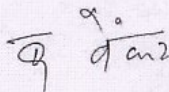
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Bapatla



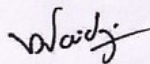
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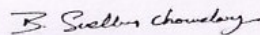
This is to certify that **SUKANYA MANAM** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***“In-silico Drug Discovery and Design: Methods and Applications”*** held during **04.01.2021 to 09.01.2021** organized by ***Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.***



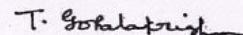
Director (FDC)
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Executive Secretary
ISTE, ND



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BCP, Bapatla



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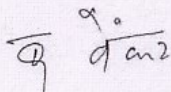
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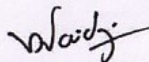
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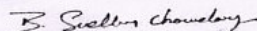
This is to certify that **DR. SREE JANARDHANAN** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"In-silico Drug Discovery and Design: Methods and Applications"*** held during **04.01.2021** to **09.01.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**



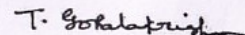
Director (FDC)
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ISTE, ND



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BCP, Bapatla


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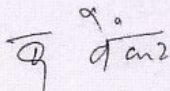
Bapatla College of Pharmacy
Bapatla, Andhra Pradesh



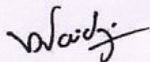
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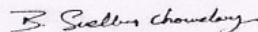
This is to certify that **DR.V.SAIKISHORE** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***“In-silico Drug Discovery and Design: Methods and Applications”*** held during **04.01.2021 to 09.01.2021** organized by ***Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.***



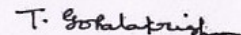
Director (FDC)
AICTE, ND



Executive Secretary
ISTE, ND



Program Coordinator
BCP, Bapatla



Principal
BCP, Bapatla


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Bapatla - 522 101



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This is to certify that **RAJYALAKSHMI KADIYAM** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on **"In-silico Drug Discovery and Design: Methods and Applications"** held during **01.02.2021** to **06.02.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

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BCP, Bapatla

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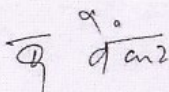
Bapatla College of Pharmacy
Bapatla - 512 161



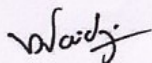
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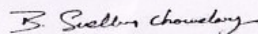
This is to certify that **KEERTHI POORNA CHANDRA RAO** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***“In-silico Drug Discovery and Design: Methods and Applications”*** held during **01.02.2021 to 06.02.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**



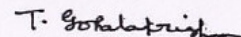
Director (FDC)
AICTE, ND



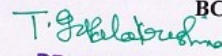
Executive Secretary
ISTE, ND



Program Coordinator
BCP, Bapatla



Principal
BCP, Bapatla



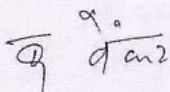
PRINCIPAL
Bapatla College of Pharmacy
Bapatla 522 101



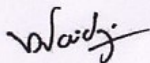
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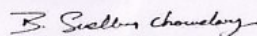
This is to certify that **CH SUSHMA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***“In-silico Drug Discovery and Design: Methods and Applications”*** held during **01.03.2021 to 06.03.2021** organized by ***Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.***



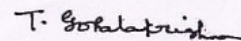
Director (FDC)
AICTE, ND



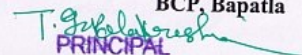
Executive Secretary
ISTE, ND



Program Coordinator
BCP, Bapatla



Principal
BCP, Bapatla


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Certificate



This is to certify that **SRINIVASARAO BONTAGARLA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"In-silico Drug Discovery and Design: Methods and Applications"*** held during **01.03.2021** to **06.03.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

Program Coordinator
BCP, Bapatla

Principal
BCP, Bapatla

PRINCIPAL

Bapatla 522 101



Certificate



This is to certify that **DR. VENKATA SURESH. JILAKARA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"In-silico Drug Discovery and Design: Methods and Applications"*** held during **01.03.2021 to 06.03.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

Program Coordinator
BCP, Bapatla

Principal
BCP, Bapatla

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Bapatla 522 101



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This is to certify that **SHINY GANJI** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***“In-silico Drug Discovery and Design: Methods and Applications”*** held during **01.03.2021** to **06.03.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

Program Coordinator
BCP, Bapatla

Principal
Bapatla College of Pharmacy
Bapatla, 522 101.



Certificate



This is to certify that **MADHULATHA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on **“In-silico Drug Discovery and Design: Methods and Applications”** held during **01.03.2021** to **06.03.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

Program Coordinator
BCP, Bapatla

Principal
BCP, Bapatla

PRINCIPAL

Bapatla 522 101



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This is to certify that **SINGARAPALLE SHOBHA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"In-silico Drug Discovery and Design: Methods and Applications"*** held during **01.03.2021** to **06.03.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

Program Coordinator
BCP, Bapatla

Principal
BCP, Bapatla

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This is to certify that **ANNIE MANDE** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***“In-silico Drug Discovery and Design: Methods and Applications”*** held during **01.02.2021** to **06.02.2021** organized by **Bapatla College of Pharmacy, Bapatla, Andhra Pradesh.**

Director (FDC)
AICTE, ND

Executive Secretary
ISTE, ND

Program Coordinator
BCP, Bapatla

Principal
BCP, Bapatla

Principal
Bapatla College of Pharmacy



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Bapatla, Guntur (Dist.), Andhra Pradesh-522101

Date: 16/12/2020

Programme Schedule

Programme:

One day Training Programme for Non-Teaching Faculty

Title Of the Programme:

“Good Laboratory Practices”

Trainer:

Dr. V. Sai Kishore

Associate Professor, & HOD

Department of Pharmaceutics

Bapatla College Of Pharmacy.

Time: 9.00 AM-2 PM on 16/12/2020

Venue: Seminar Hall

Bapatla College Of Pharmacy



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Bapatla, Guntur (Dist.), Andhra Pradesh-522101

Programme Report

Date: 16/12/2020

Programme:

One day Training Programme for Non-Teaching Faculty

Title Of the Programme:

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Trainer:

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Associate Professor, & HOD

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Time: 9.00 AM-2 PM on 16/12/2020

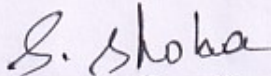
Venue: Seminar Hall

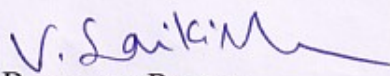
Bapatla College Of Pharmacy

The session was started at 9 AM and the programme was inaugurated by Our principal Sir Dr. TEGK Murthy, with a brief introduction of the significance of this programme, it was handed over to the resource person Dr. V. Sai Kishore.

Dr. Sai Kishore sir explained very well about the Good Laboratory Practices that should be followed while working in the scientific laboratories. Some key points he adjourned during the programme were

- About always wearing Personal Protective Equipment (PPE).
- Having good Communication with other members of the research lab.
- Participating in refresher training and safety exercises.
- Be aware of what you are always doing.
- Pay attention to unfamiliar smells and substances.
- Use the right lab equipment for the task or activity.
- Clean equipment regularly
- Calibrate equipment regularly
- Maintaining equipment properly


Programme Coordinator


Resource Person



BAPATLA COLLEGE OF PHARMACY

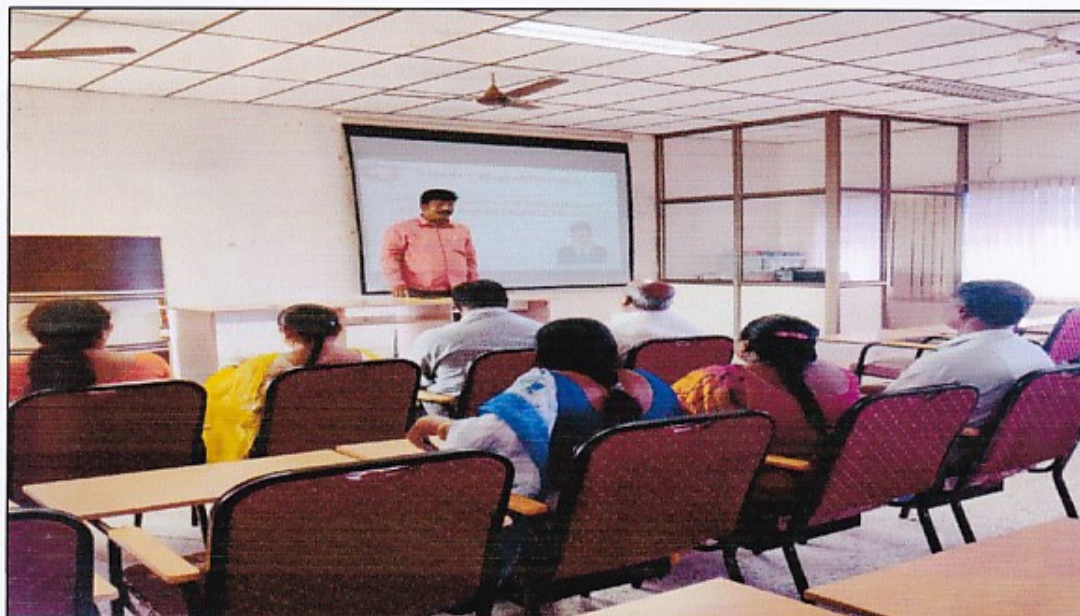
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Bapatla, Guntur (Dist.), Andhra Pradesh -522101

Non-Teaching Training Program

Academic Year:2020-2021



T. Gopalakrishna

PRINCIPAL
Bapatla College of Pharmacy
Bapatla 522 101



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Bapatla, Guntur (Dist.), Andhra Pradesh-522101

Date: 16-12-2020

Name of the Programme

Good Laboratory Practices

Participants List

S.No	Participant Name	Signature
1	CH. Ramakotiah.	Ch. Ramakotiah.
2	R. VENU BABU	R. Venk Babu
3	K. SUTATHA.	K. SUTATHA
4	N. PARAMESWARI	N. Parameswari
5	T. SUNEETHA.	T. Suneetha.
6	D. Venkateswaramma	D. Venkateswaramma
7	M. SRIHARI	M. Srihari
8	T. VIJAY SEKHA.	T. Vijay Sekha
9	CH. RAJENDRA PRASAD.	Ch. Rajendra prasad.

Signature *S. Shoba*
Programme Coordinator:

T. Gopalakrishna
Principal



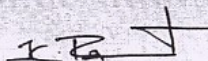
Bapatla College of Pharmacy

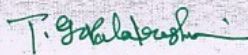
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Bapatla , Guntur (Dist), Andhra Pradesh -522101

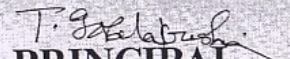
Certificate of Participation

This is to certify that

Mr/Mrs/Ms- Ch Rajendra prasad has
Participated in one day training program on "Good laboratory practices"
organised by Bapatla college of pharmacy on 16-12-2020


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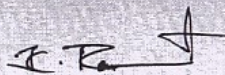
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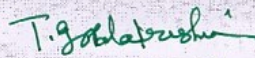
Certificate of Participation

This is to certify that

Mr/Mrs/Ms- Ch. Ramakotaiah has

Participated in one day training program on "Good laboratory practices" 
organised by Bapatla college of pharmacy on 16-12-2020


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Bapatla 522 101


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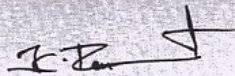


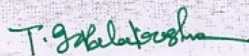
Bapatla College of Pharmacy
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(Affiliated to Jawaharlal Nehru Technological University, Kakinada)
Bapatla, Guntur (Dist), Andhra Pradesh -522101

Certificate of Participation

This is to certify that

Mr/Mrs/Ms- R. Venubabu has
Participated in one day training program on "Good laboratory practices" <
organised by Bapatla college of pharmacy on 16-12-2020


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Bapatla College of Pharmacy
Bapatla 522 101


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Bapatla College of Pharmacy

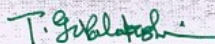
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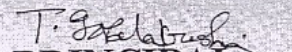
Certificate of Participation

This is to certify that

Mr/Mrs/Ms- K. Sujatha has
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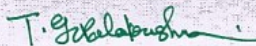
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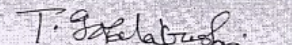
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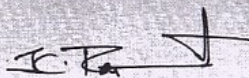
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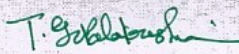
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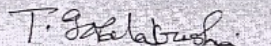
Certificate of Participation

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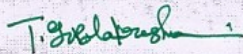
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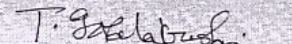
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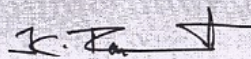
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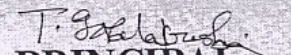
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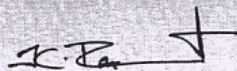
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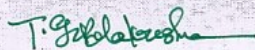
Certificate of Participation

This is to certify that

Mr/Mrs/Ms- T. Vijay shekar has

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