



**SRI VENKATESWARA COLLEGE  
(UNIVERSITY OF DELHI)**

**EVENT REPORT**

<b>NAME OF THE EVENT: Diamond Jubilee Celebration: Inaugural Lecture/webinar on “Chemical Entities In Modern Medicine.”</b>			
<b>DATE</b>	<b>DEPARTMENT</b>	<b>COMMITTEE/SOCIETY</b>	<b>COORDINATORS NAME</b>
15 September 2021	Department of Chemistry	The Chemical Society	Dr.Sanjay Kumar, Dr.Shikha Gulati
<b>TIME</b>	<b>VENUE</b>	<b>NUMBER OF PARTICIPANTS</b>	<b>NATURE: Outdoor/Indoor; online/offline/hybrid</b>
11:00 AM	MS Teams	186	Online
<b>FINANCIAL SUPPORT/ASSISTANCE (if any):</b>			

**BRIEF INFORMATION ABOUT THE ACTIVITY**

<b>TOPIC/SUBJECT OF THE ACTIVITY</b>	Chemical Entities in Modern Medicine
<b>OBJECTIVES</b>	The main objective of the webinar was to spread awareness among students about chemical entities modern medicine, NMR- MRI, how to design molecule and new radiochemistry.
<b>METHODOLOGY</b>	<ol style="list-style-type: none"> <li>1. An online lecture was delivered by Dr. A. Sankara Reddy, Padma Shri awardee, former Principal, Sri Venkateswara college, Former Vice Chancellor, RU, Gujarat, on the brief introduction of Dr. V. Krishna Murthy: the institution builder and former Principal of Sri Venkateswara College.</li> <li>2. An online lecture was delivered by the Chief Guest Dr. Anil Kumar Mishra, Director, Institute of Nuclear Medicine and Allied Science (INMAS) DRDO on chemical entities in modern medicine. In the lecture, Dr. Anil Mishra has enlightened the participants on the concept of EMR, Radiochemistry, and explained NMR- MRI in a very detailed manner.</li> </ol>
<b>INVITED SPEAKERS WITH AFFILIATION DETAILS ( IF ANY)</b>	<p>Dr. Anil Kumar Mishra Director, Institute of Nuclear Medicine &amp; Allied Science (INMAS), DRDO</p> <p>Dr. A. Sankara Reddy Padma Shri Awardee</p>

	Former Principal, Sri Venkateswara College Former Vice Chancellor, RU, Gujarat
<b>OUTCOMES</b>	<p>Around 213 participants from SVC college as well as from other colleges of Delhi University and some technology institutes attended the webinar. Undergraduate and Post-graduate students were the major group of participants. Participants were introduced to the glory of Dr. V Krishna Moorthy by the special invitee Dr. A. Sankara Reddy. Participants were inspired by the hard work and contributions of Dr. V. Krishna Moorthy for SVC. A Keynote lecture was given by Dr. Anil Kumar Mishra on Chemical Entities in Modern Science.</p> <p>Participants enriched themselves with knowledge of Medicinal Chemistry. The speaker could arouse interest and enthusiasm amongst the participants in this field. It was quite evident from the interactive session that went on for around twenty minutes.</p>

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

1 Notice & Letters	2 Number of Participants & Name of participants ✓	3 Event report*✓	4 Photos ✓	5 Feedback Form & analysis ✓
6 News clip with details	7 Sample Copy of the Certificate ✓	8 Posters/ Invites✓	9 Event report Attested by Event Coordinator & IQAC Coordinator✓	10 Any other document

IQAC Document No: IQAC/SVC/2021-22/Chem/03	Criterion No: III & V
Departmental file no: SVC/2021-22/Chem/03	IQAC file No: SVC/2021-22

NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	IQAC COORDINATOR (SEAL &SIGNATURE)
Dr.Sanjay Kumar, Dr.Shikha Gulati	Dr.Sanjay Kumar	

For Reference

Criterion I	Curricular Aspects (planning & Implementation)		Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation		Criterion VI	Governance
Criterion III	Research, Innovations & Extension		Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure			



# Diamond Jubilee Celebration

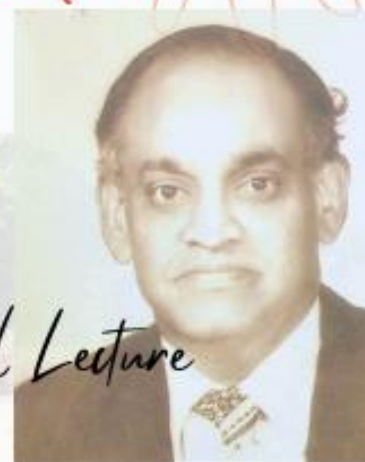
1961-2021

THE CHEMICAL SOCIETY  
DEPARTMENT OF CHEMISTRY  
SRI VENKATESWARA COLLEGE  
UNIVERSITY OF DELHI

Organises

*Dr. V. Krishnamurthy Memorial Lecture*

On



## "CHEMICAL ENTITIES IN MODERN MEDICINE"



**CHIEF GUEST**

**DR. ANIL KUMAR MISHRA**  
DIRECTOR, INSTITUTE OF NUCLEAR  
MEDICINE & ALLIED SCIENCE (INMAS),  
DRDO



**SPECIAL INVITEE**

**DR. A. SANKARA REDDY**  
PADMA SRI AWARDEE  
FMR PRINCIPAL, SRI VENKATESWARA COLLEGE  
FMR VICE CHANCELLOR, RU, GUJARAT

*"Presenting Brief Introduction of  
Dr. V. Krishna Murthy - The Institution Builder"*

**15 Sep, 21**  
**WEDNESDAY**

**11:00**  
**A.M.**

**Platform:** Microsoft Teams

**E-Certificates will be provided  
to all participants**



Registration link: <https://tinyurl.com/ukp8sw6u>

**Last date of registration: 13 Sep, 2021 | 5:00 P.M.**

**Dr. Sanjay Kumar**  
Convenor

**Dr. Shikha Gulati**  
Co-convenor

**Prof. C. Sheela Reddy**  
Patron & Principal

**In case of any queries, contact:**

Kartika Goyal (President) :- 8273626767

Aryan Arora (Joint Secretary) :- 8585934985

Arikta Baul (Vice President):- 9582916618

Rachit Wadhwa (General Secretary):- 9717037913

## LIST OF PARTICIPANTS AND COURSES

S No.	Name:	Course:
1	Arjun Singh Karakoti	Bsc honours chemistry
2	Sneha Vijayan	B.Sc. (Hons.) Chemistry
3	Hiral Rawal	Bsc life science
4	Kiran kushwah	Bsc life sciences
5	Sachidanand	B.Sc. (H) Chemistry
6	Shubham Yadav	B.Sc Life Sciences
7	Shivani	Bsc chemistry
8	Unnati Sharma	BSc. Life Sciences
9	Vivek Mahla	Bsc life science
10	Colonel Siva Satyanarayana Velagaleti	Not Applicable
11	Angel Chawla	Bsc. Life science
12	Sarvesh Kumar Verma	B.Sc.(H)-Chemistry
13	Shivanshu verma	Bsc. Hons chemistry
14	Kajal Gupta	Bsc. Life science
15	Arjun Singh Karakoti	Bsc honours chemistry
16	Ayush Ganjoo	Bsc.(H) Chemistry
17	Gargi	Life's sciences
18	Najma Parveen	BSc(H)Chemistry
19	Preeti	B.Sc. Prog. Life Science
20	Kabeer	Bsc (p) life sciences
21	Anshul Bhandari	BSc. Chem Hons
22	Sarthak gupta	Chemistry hons
23	Deepak	Bsc( H) chemistry
24	Prachi garg	Bsc Chem hons

25	Sunny Saurabh Pandey	B.sc(hons.) Chemistry
26	HIMANSHU	BSc(H) Chemistry
27	Devanshi paliwal	B.Sc. life sciences
28	Dr. Anant Pandey	NA
29	Dr. Shubhra Barwa	NA
30	Mr.Shubham Bhaskar Naik	M.Sc Analytical Chemistry
31	Sumit	Bsc life sciences
32	Sheetal	Bsc. chemistry hons.
33	Sahid Ansari	B.Sc Chemistry (H)
34	SANSKAR	BSC HONS CHEMISTRY
35	Bulbul	Chemistry hons
36	AYUSHI	Bsc.(H) chemistry
37	Nishant	B.Sc. (Life Science)
38	Prajna Bhowmik	B.Sc Chemistry(H)
39	Aastha kapil	B.Sc. (prog.) Life science
40	Neeraj	BSc Chemistry(H)
41	Vishruti Shrivastava	BSc (H) Chemistry
42	Anushka Saxena	Bsc life Sciences
43	ISHITA DEBNATH	B.Sc. LIFE SCIENCES
44	Sakshi	B.Sc. Chemistry Hons
45	Ankita	Bsc life sciences
46	Nikhil	BSc. Hons Chemistry
47	Nandini Sharma	Bsc.hons Biological Sciences
48	Aditya Mishra	Bsc (H) chemistry
49	Simran bidhuri	Bsc chemistry hons
50	Gauri wadnerkar	Life science
51	Harsimar Kaur	BSc. Chemistry (H)

52	Ankul Kumar	Bsc (H) Chemistry
53	Tannu Kushwah	Bsc Hons Biological Sciences
54	Dr. Jyotirmoy Maity	
55	Puneet kumar	Bsc. Physical science
56	Nidhi kumari	Bsc industrial chemistry
57	Mukesh Namdev	(CBCS)-B.SC PHYSICAL SCIENCE
58	Shushant	Bsc [prog.] Physical science with industrial chemistry
59	Ashish Bora	BSc. Honours Chemistry
60	Ananta tewari	BSc. Life sciences
61	Rishabh Singh	
62	Vinita Yadav	BSC hons biological sciences
63	JEEVAN CHANDRA POKHRIYAL	M. SC Chemistry
64	Diksha Singla	M.Sc. Chemistry
65	Adarsh kumar	Msc chemistry
66	Taruna saini	BSc. Biological Sciences
67	Monesh Kumar Pahi	M.Sc. in Chemistry
68	Piyush Tiwari	Integrated Msc Chemistry
69	Mansi	B.Sc.(H) Chemistry
70	Tanya Sharma	Msc Chemistry
71	PALASH JYOTI DAS	
72	Manoj Singh	Integrated Master of Science
73	Nirantar Kumar Verma	M.Sc Chemistry
74	Shuhailul Hisham v s	Chemistry (hons)
75	Vivekanand choubey	M. Sc chemistry
76	Aravind Ravi	B.Sc. Chemistry (H)
77	Heena Sharma	M.Sc chemistry
78	Deepak	M. Sc. Chemistry

79	Akanksha Shahi	B.Sc. Chemistry (Hons.)
80	sanchit	M.Sc chemistry
81	Komal Rohilla	Msc Chemistry hons.
82	Yugant	B.Sc. prog. Industrial chemistry
83	Shikha	M. Sc Chemistry
84	Muskan	BSc (Hons) Biochemistry
85	Amlan Dutta	MSc Chemistry
86	Tannu sharma	Bsc Hons chemistry
87	Muhammad Ramees U	Chemistry
88	SAHIL	MSc. Chemistry
89	Aish Jain	M.Sc chemistry
90	Vanshika	M.SC Chemistry
91	singhbaliram430@gmail.com	msc
92	Ansh Madheshiya	M.Sc Chemistry
93	Alok kumar	Msc chemistry
94	Isha Dabas	Bsc lifescience
95	Bhawna sharma	BSc life science
96	Ajay Kumar Yadav	MA political science
97	Drishti Bhatt	B.Sc.(H) Chemistry
98	Priyanka	M.Sc Chemistry
99	Biplab Gope	M.Sc. in Chemistry
100	Shivani Rathore	B.Sc Life Sciences
101	Mansi	Msc chemistry
102	Manan Kothari	M.Sc. Chemistry
103	Vikash kumar	B.Sc Chemistry HONOURS
104	Mohit Sharma	Chemistry
105	Poonam	Msc chemistry hons (II)year



106	Amit Pandey	
107	Neeraj	Msc chemistry
108	Sneha Dey	Chemistry(H)
109	Kajal	Msc. Chemistry
110	E. Premalatha	Chemistry
111	Harsh Namdev	B.sc. industrial chemistry
112	SHIVENDERKUMAR	Physical science with chemistry
113	Kanupriya Shukla	MSc. Chemistry
114	Nidhi Bhatia	BSc (P) Life Science
115	Charu Joshi	BSc life sciences prog
116	Rahul	M.Sc Chemistry
117	Vaishali Pant	Bsc life Science
118	Divya	B.Sc(Hons) CHEMISTRY
119	Manvi Sharma	MSc Chemistry
120	Komal	M.sc chemistry (Honors)
121	Trideep dey	Bba
122	Muskan	Msc chemistry
123	Ritika Chaudhary	Bsc life sciences
124	Priya Yadav	M.Sc. Chemistry
125	Ankita Borah	M.Sc Chemistry
126	Hadiya Shamim	B.Sc. (H) Biochemistry
127	Hadiya Shamim	B.Sc. (H) Biochemistry
128	Manish Kumar Saini	M.Sc Chemistry
129	Rahul Kumar	BSc Chemistry Hons
130	Pallab Roy	M. Sc.
131	Md Faizanul Haque	IMSc( 5 yr Chemical Sciences)
132	Umang Sharma	Bsc microbiology

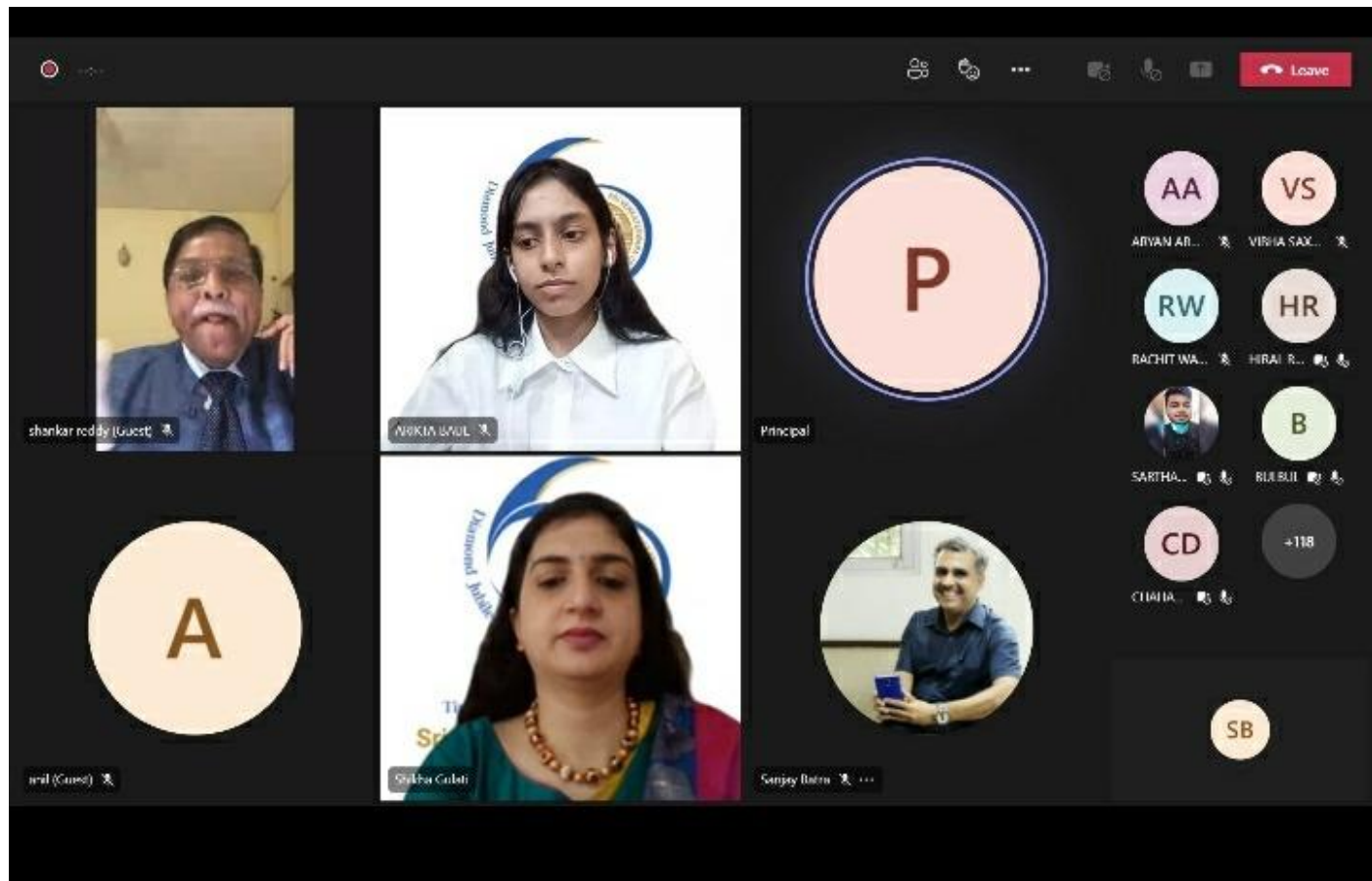
133	Umang Sharma	Bsc. Microbiology
134	Iokendra kilak	Bsc(H) chemistry
135	Ashish kashyap	B.sc lifesciences
136	Riya	Bsc. Chemistry hons
137	Ata haider	B.sc physical science
138	Anitta Augustian	Integrated Chemistry
139	Bhavya Talwar	MSc Chemistry
140	Kinshuk Malik	MSc chemistry
141	Shubham Pramanik	Bsc Industrial Chemistry
142	Verbi p bhagabati	Bsc chemistry honours
143	Keshav Kumar	Bsc Industrial Chemistry
144	PINKI KUMARI	Bsc Chemistry (H)
145	Aaditya mishra	Bsc applied physical science industrial chemistry
146	Mahima Kanojia	Bsc(Hons) Chemistry
147	Aaditya mishra	Bsc applied physical science with industrial chemistry
148	Sudhanshu Tomar	Chemistry hons
149	Krishna Kumar Yadav	BA HONS.POLITICAL SCIENCE
150	Chirag Pareek	B.sc (H) Biochemistry
151	Kusum	Bsc chemistry (hons.)
152	Dr Devendra Kumar Verma	NR
153	Tanya vats	BSc(hons) Chemistry
154	Aman Kumar Sonkar	BSc Life Sciences
155	Preeti	B.Sc life Science
156	Shubham Yadav	B.Sc Life Sciences
157	BISMILLAH	BSc. Life Sciences
158	Kiran kushwah	Bsc life sciences
159	HARSH KUMAR ROY	B. Sc Industrial chemistry

160	Anshuman Tyagi	M.sc chemistry
161	Chhaya Thadhani	MSc Chemistry Hons
162	Hiral Rawal	Bsc life science
163	Deepika	B.Sc (H) chemistry
164	Shivanand	Ba pol sci hons
165	Gargi Rajpoot	LSc (prog)
166	Diwakar Kumar singh	<a href="#">M.sc</a>
167	Sheetal	MSc. Chemistry
168	Ayushi	BSc
169	ROUNAK JAISWAL	BSc . Zoology (H)
170	Keshav Singh	M.Sc. Chemistry
171	Seema Yadav	M.Sc Chemistry
172	Dr.Ratna Sherry Associate Professor	
173	Subhashini Sharma	
174	Tapasya Khanna	B.Sc.(hons.)Biochemistry
175	Dr. Niharika Sharma	
176	Aashiya Praveen	B.Sc (H) Chemistry
177	Akanksha Shahi	B.Sc. Chemistry Hons.
178	Dr Santosh Jain Passi	
179	Rajdeep Chatterjee	
180	Dr. Sarika Malik	
181	Hari Shankar Yadav	MSc Chemistry
182	Kanishk Yadav	BSC Anthropology
183	A S Reddy	
184	Smriti Joadhi	B.sc.lifesciences
185	A N V SRI VAISHNAVI	LIFE SCIENCE
186	Simran Bisht	BSc (H) Chemistry

## LIST OF FACULTY

<b>S No.</b>	<b>NAME</b>	<b>DEPARTMENT</b>
1	Prof. C Sheela Reddy	Principal
2	Dr. Sanjay Kumar	Chemistry
3	Dr. Shikha Gulati	Chemistry
4	Mr. H.C.Tandon	Chemistry
5	Dr. Mercy Kutty Jacob	Chemistry
6	Dr.Vibha Saxena	Chemistry
7	Dr. Sharda Pasricha	Chemistry
8	Dr. Shefali Shukla	Chemistry
9	Dr. Pragya Gahlot	Chemistry
10	Mr. Harsh Vardhan Meena	Chemistry
11	Dr. Vinita Kapoor	Chemistry
12	Dr. Pooja	Chemistry
13	Dr. Deepti Sharma	Chemistry
14	Ms. Laishram Saya Devi	Chemistry
15	Dr. Rekha Yadav	Chemistry
16	Dr. Rangarajan T. M	Chemistry
17	Dr. Devendra Kumar Verma	Chemistry
18	Dr. Akanksha Gupta	Chemistry
19	Dr. Komal Agarwal	Chemistry
20	Dr. Balendra	Chemistry
21	Dr. Aditi Gupta	Chemistry
22	Dr. Manoj Trivedi	Chemistry
23	Dr. Chandra Shekhar Tikuri	Chemistry

## PHOTOS



Request control


shankar reddy (Guest)

**Sri Venkateswara College**  
(University of Delhi)

**Dr. Velagalety Krishna Moorthy**  
PRINCIPAL (1972-93)  
SRI VENKATESWARA COLLEGE

*The Institution Builder*

ARJAN ARORA



A

VS

VIBHA SAX...

SB

Leave

Microsoft Teams

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shankar reddy (Guest)


**Professional Career**

1962-63 *Lecturer in Chemistry* in the *St Stephen's College, DU*

1964-72 *Permanent Lecturer* and *Reader* in the Chemistry Department

1972-93 *Principal of Sri Venkateswara College*

ARJAN ARORA



VS

AB

VIBHA SAX... ARIKTA BAUL

P

Principal

+137

D

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shankar reddy (Guest)

## Administrative abilities and Contribution to the College

- Introduced:

- *Science Honors courses (Botany, Zoology, Chemistry, Electronics, etc)*
- *B.Com(hons.)*
- *Art honors courses*
- *PG courses*



shankar reddy (Guest)

VS VIBHA SAX... ARIKTA BAUL

P Principal

+133

D

ARVAN ARCRA

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shankar reddy (Guest)

## Foreign Assignments

- 1 **Exchange Scientist** under the UGC & British Council Exchange of **Younger Scientists Program** at **Aberdeen University, Scotland, UK** in 1968
- 2 **Head of the Department of Chemistry, Asmara University** in Ethiopia from 1980-82
- 3 Visited the **RGB's Education Department** in **Thimphu, Bhutan** and **Special Representative** of the then **VC of DU, RGB College in Kanglung**
- 4 Being a **Senior Fulbright Fellow**, visited various institutions of higher learning in the **USA** as an **Educational Administrator** during **March to May 1985**

shankar reddy (Guest)

VS VIBHA SAX... ARIKTA BAUL

P Principal

+137

D

ARVAN ARCRA

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shankar reddy (Guest)

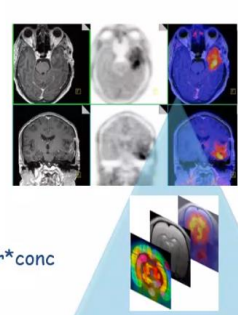
mishra (Guest)

Sanjay Batra

+126

D

## Development of Molecular Imaging Drugs and Enhancers



**Clinical**

**Preclinical**

**Methods**

**Economical Growth**  
Revenue Generated: 7 Crores

**Intellectual Rights**  
Patents: 6  
Publications: 250

**Educational Growth**  
PhD awarded: 28

$1/T_1 = 1/T_{1(0)} + r \cdot \text{conc}$

R-N#N+R'
 $\xrightarrow[\text{H}_2\text{O or alcohols/25}^\circ\text{C}]{0.1 \text{ mol\% Cu(OAc)}_2, 0.2 \text{ mol\% sodium ascorbate}}$ 
R-N#N-R'

**Chemistry Behind Non-Invasive Imaging**

Shikha Gulati

Request control

shankar reddy (Guest)

mishra (Guest)

Sanjay Batra

+126

D

## Chemical Entities Modern Medicine

Choose any organs

<b>Brain</b> Somatostatin, RGD, substance P	<b>Thyroid</b> CCK/gastrin, substance P
<b>Lung</b> Somatostatin, bombesin, CCK/gastrin, RGD, CXCR4	<b>Breast</b> Somatostatin, bombesin, RGD, neurotensin, NPY, LHRH, substance P, CXCR4
<b>Gastrointestinal</b> Exendin, CCK/gastrin, bombesin	<b>Pancreas</b> Exendin
<b>Skin</b> $\alpha$ -MSH, RGD	<b>Neuroendocrine</b> Somatostatin
<b>Prostate</b> Bombesin, NPY, LHRH, CXCR4	<b>Lymphatic system</b> Somatostatin, CXCR4
	<b>Ovarian/endometrial</b> CCK/gastrin, RGD, LHRH, CXCR4

**Imaging radionuclides**

- SPECT:  $^{99m}\text{Tc}$ ,  $^{111}\text{In}$ ,  $^{67}\text{Ga}$ ,  $^{123}\text{I}$
- PET:  $^{18}\text{F}$ ,  $^{68}\text{Ga}$ ,  $^{64}\text{Cu}$ ,  $^{89}\text{Y}$ ,  $^{124}\text{I}$

**Therapeutic radionuclides**

- $\beta$ -emitters:  $^{177}\text{Lu}$ ,  $^{90}\text{Y}$ ,  $^{67}\text{Cu}$
- $\alpha$ -emitters:  $^{213}\text{Bi}$ ,  $^{225}\text{Ac}$

Shikha Gulati



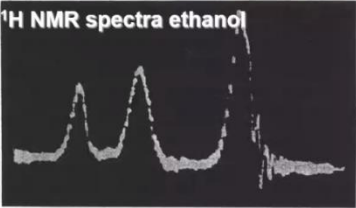
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## NMR History

*First Observation of the Chemical Shift*

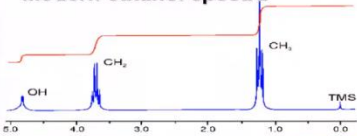
**<sup>1</sup>H NMR spectra ethanol**



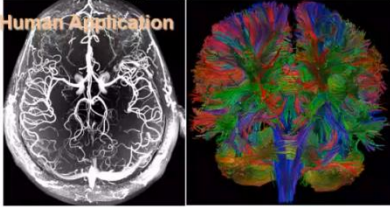
**A**

- development of **super-conducting solenoids**
- introduction of various **spin-decoupling techniques**
- method of **pulse Fourier transform NMR spectroscopy**
- innovations** in instrumentation
- acquisition of the techniques
- the expenditure of considerable **sums of money**

**Modern ethanol spectra**



**Human Application**



**B**

- > **30%** of MRI investigation use a **Contrast Agents**
- Devoted efforts of **Chemists** made MRI a powerful tool for biomedical applications.

Arnold, J.T., S.S. Dharmatti, and M.E. Packard, J. Chem. Phys., 1951. **19**: p. 507.

Shikha Gulati

mishra (Guest)

shankar reddy (Guest)

Sanjay Batra +129

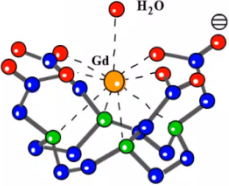
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## Why Gadolinium?

**The Gd(III) ions has a number of properties that makes it particularly suitable Contrast Agent for MRI because:**



- It has **high paramagnetism**(7 unpaired electrons)
- It has **relatively long electronic relaxation time**
- It forms **highly stable chelate**, still containing one or two water molecules in its inner coordination sphere
- Several **coordination number above 6**, makes more attractive to prepare **Smart Contrast Agents**

Shikha Gulati

mishra (Guest)

shankar reddy (Guest)

Sanjay Batra +132

D

# How to Design

**Chart 12. Mishra Peptide Method for the Synthesis of p-NH<sub>2</sub>-Bz-DOXA**

**Chart 10. Kimura Peptide Method for the Synthesis of Tetraazamacrocycles**

**Mishra** → **Kimura**

← **Parker**      **McMurry**

← **Meares** →

**Chart 7. Parker Method for the Synthesis of Mono-substituted Tetraazamacrocycles and Related BFCs**

**Chart 8. Meares Peptide Method for the Synthesis of p-NO<sub>2</sub>-Bz-DOXA**

**Chart 11. McMurry Method for the Synthesis of p-NO<sub>2</sub>-Bz-DOXA**

**REVIEWS**  
Bifunctional Chelators for Therapeutic Lanthanide Radiopharmaceuticals

Shikha Gulati

mishra (Guest)

shankar reddy (Guest)

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+132

Sanjay Batra

**isotopes production (Sc-44, Cu-64 and Zr-89) not available in country**

**Optimized Proton Energy with Existing System for Enrich Target**

Request control

<b><sup>44</sup>Sc</b>	<b><sup>64</sup>Cu</b>	<b><sup>68</sup>Ga</b>	<b><sup>89</sup>Zr</b>
$\beta^+$ 0.60	$\beta^+$ 0.05	$\beta^+$ 0.74	$\beta^+$ 0.09
94.3%	17.8%	89.1%	23.0%
3.93 h	12.7 h	67.7 m	3.268 d

Shikha Gulati

mishra (Guest)

shankar reddy (Guest)

D

+124

Shikha Gulati

## New Radiochemistry

Excellent Radio-physical properties: Radiolabeling and conjugation chemistry

### Radio-M<sup>III</sup> –labelling and non-aqueous solvents

<b><sup>68</sup>Ga</b> β <sup>-</sup> 0.74 89.1% 67.7 m	<b><sup>44</sup>Sc</b> β <sup>-</sup> 0.60 94.3% 3.93 h	<b><sup>86</sup>Y</b> β <sup>-</sup> 0.21 33.0% 14.70 h	<b><sup>86</sup>Y</b> β <sup>-</sup> 0.21 33.0% 14.70 h
<b><sup>177</sup>Lu</b> β <sup>-</sup> 0.6 ... 6.71 d	<b><sup>90</sup>Y</b> β <sup>-</sup> 2.3 ... 64.1 h	<b><sup>111</sup>In</b> γ 245 2.81 d	<b><sup>225</sup>Ac</b> α 5.83 ... 10.0 d
<b><sup>64</sup>Cu</b> β <sup>-</sup> 0.05 17.8% 12.7 h	<b><sup>90</sup>Nb</b> β <sup>-</sup> 0.35 53.0% 14.60 h	<b><sup>89</sup>Zr</b> β <sup>-</sup> 0.09 23.0% 3.268 d	

### Classical/pre-labelling

**Main effects**

- Significantly higher labelling yields for a given reaction period
- Significant increase of labelling yields for shorter reaction periods
- Significantly higher labelling yields for lower amounts of ligand
- Significant increase of A<sub>specific</sub>
- Applies to (all) DOTA-conjugated targeting vectors
- ... and to NOTA-(and other ?) chelates
- Applies not only for <sup>68</sup>Ga, but also for <sup>44</sup>Sc and trivalent f-elements such <sup>177</sup>Lu and beyond ?

Bioconjugate Chem., 2006; Inorg. Chem. 2008; Bioconjugate Chem.2011 Dalton Trans, 2011, Dalton Trans, 2012, Dalton Trans, 2013

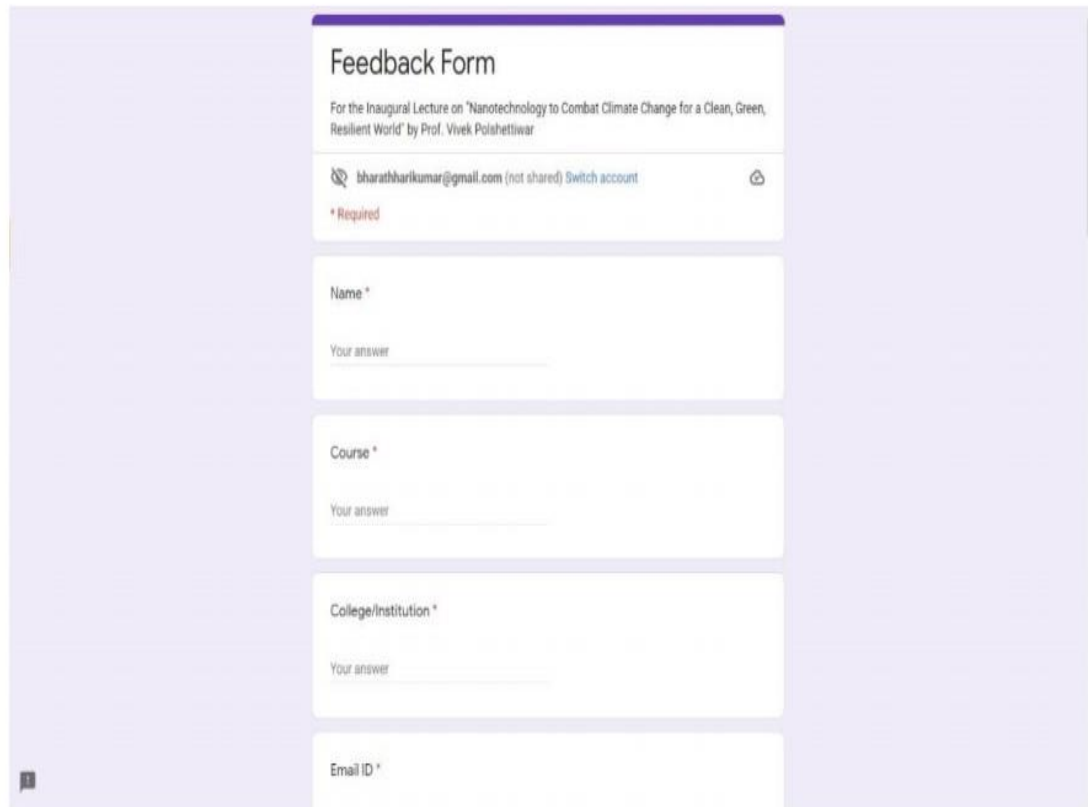
### Microsoft Teams

The screenshot shows a Microsoft Teams meeting with 14 participants in a 4x4 grid. The participants are:

- Manoj Triwedi
- mishra (Guest)
- HARISH NEELA LINGAM B.
- Shikha Gulati
- KARTIKA GOYAL
- Dr Shefali Shukla
- Mercykutty Jacob
- R.P.Singh
- DIVYA
- ARIKTA BAUL
- AKANSHA GUPTA
- ANIKET TANWAR
- Dr V C Rao (Guest)
- Sanjay Batra

# Feedback Form & analysis

## Feedback Form:



The image shows a screenshot of a Google Forms interface. The form is titled "Feedback Form" and is intended for an inaugural lecture on "Nanotechnology to Combat Climate Change for a Clean, Green, Resilient World" by Prof. Vivek Polshettiwar. The form is set up by the user "bharathharikumar@gmail.com" and is marked as "Required". The form contains four text input fields, each with a red asterisk indicating it is required: "Name", "Course", "College/Institution", and "Email ID". Each field has a placeholder text "Your answer".

Link: <https://forms.gle/FyA8Q2n9cDsbC2jy8>

## Feedback Analysis

4.6

Overall rating  
of the webinar

4.7

Objectives of webinar  
clearly defined

4.7

Content of the  
webinar

4.7

Presenting skills  
of the speaker

4.5

Duration and  
pace of webinar

4.5

Resolution of  
queries

4.7

Expectations regarding  
the information shared

## SAMPLE COPY OF CERTIFICATE

# CERTIFICATE

## Of Participation



THIS CERTIFICATE IS PROUDLY PRESENTED TO

*Aryan Arora*

for his/her participation in the webinar entitled "Nanotechnology to Combat Climate Change for a Clean, Green, Resilient World" held on 27<sup>TH</sup> August 2021, organized by The Chemical Society, Department of Chemistry, Sri Venkateswara College, University of Delhi

Dr. Sanjay Kumar  
(Convener)

Dr. Shikha Gulati  
(Co-convener)

Prof. C Sheela Reddy  
(Principal)



## Certificate

This is to certify that Dr. V. Krishna Moorthy Memorial Webinar on Chemical Entities In Modern Medicine was successfully conducted on 15<sup>th</sup> September 2021 at 11.00am by Department of Chemistry in the online mode and its event report has been submitted to IQAC for records.

*C. Sula Reddy*  
Principal

Sri Venkateswara College  
(University of Delhi)  
Dhaura Kuan  
New Delhi-110 021

*Vashishath*

**IQAC Coordinator**

Coordinator, IQAC  
Sri Venkateswara College  
(University of Delhi)  
Dhaura Kuan, New Delhi-110021