

FACULTY PROFILE



Name of the Faculty - Dr Nidhi Gour
Designation – Associate Professor
SCHOOL School of Sciences
Lab Group Website: <https://sites.google.com/view/nidhilab/home>

Research Area: Chemical Biology, Nanoscience, Nanomaterials, Sensors, Peptide based assemblies.

1) Education Qualification

Particulars	Completion Year	Institute / University	Topic Specialisation /Majors/
Bachelor of Science (BSc)	2002	Holkar Science College, DAVV, indore	Pharmaceutical Chemistry
Masters of Science (MSc)	2004	Devi Ahilya Vishwa Vidyalaya, Indore	Life Sciences
Doctor of Philosophy (PhD)	2010	Indian Institute of Technology (IIT), Kanpur	Organic Chemistry

2) Work Experience-

Year	Designation	Institute
Aug 2021- Present	Associate Professor	Indrashil University
Jul 2019- Present	Assistant Professor	Indrashil University
Aug, 2016- Jul, 2019	Assistant Professor	Indian Institute of Advanced Research, Gandhinagar, Gujarat, India
May, 2015 – Apr, 2017	Visiting Faculty	Indian Institute of Advanced Research, Gandhinagar and Central University of Gujarat

July, 2013-July, 2014	CSGI Postdoctoral Fellow	University of Florence, Italy
Jul, 2011 – Jun 2013	Post Doctoral Research Fellow	, University of Geneva, Switzerland
Nov, 2010- Jun 2011	Research Fellow	Albert Einstein College of Medicine, New York, USA
Apr 2010-Oct-2010	Visiting Fellow	Tata Institute of Fundamental Research, Mumbai, India

3) Details of paper published in Journals (numbers):

International Journals – **24** (Including 20 research articles, 4 book chapters;

Total citations: 424, h-index 13)

Google scholar link:

<https://scholar.google.co.in/citations?user=00oZDVEAAAAJ&hl=en>

4) Details of paper published in Conferences (numbers):

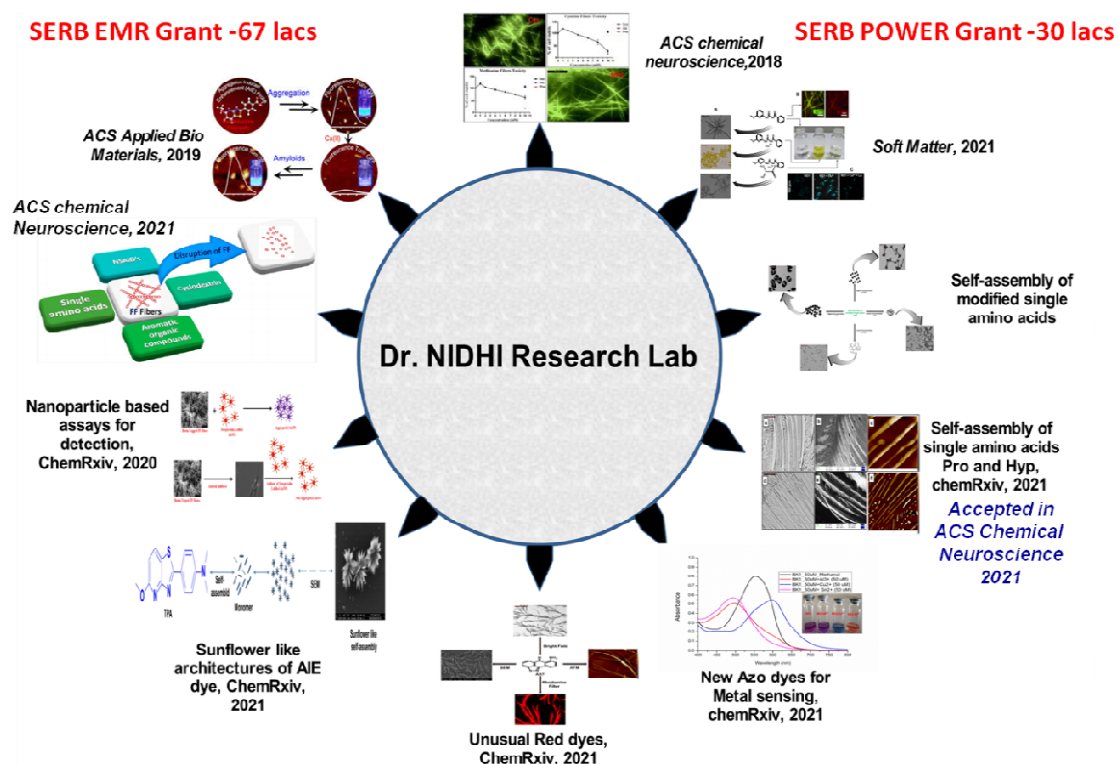
National Conferences : 6

International Conferences : 17

5) No. of Awards/ Grants Received and its Details–8

1. Awarded SERB POWER Grant in 2021 and received Grant Amount of 28,90,000 INR for 3 years. The Grant is given to promising woman Scientists of India to encourage their research.
2. Awarded Newton Researcher links Workshop Grant 2017 as an initiative from Newton Fund Scheme for encouraging collaboration between Early career researchers from India and UK
3. Received extramural research grant in 2016 from DST SERB as a Principal Investigator Project title: ‘A novel nanoparticle-based bioassay for sensitive detection of cancer-specific proteases.’ Grant amount ~ 67 lacs.
4. PhD thesis was selected for 2nd Prize of “2010 Eli Lilly and Company Asia Outstanding Thesis Awards”.
5. Received CSGI Postdoctoral Research Grant for conducting research in lipid oligonucleotide conjugates in University of Florence, Italy
6. Received Visiting Fellowships from Albert Einstein College of Medicine, New York, USA and Tata Institute of Fundamental Research, Mumbai India.
7. Received Postdoctoral Research Fellowship from Swiss National Science Foundation for conducting research on polymer and peptide self-assemblies.
8. Secured 99.55% and All India Rank 22nd in Graduate Aptitude Test in Engineering (GATE).

Research in Dr. Nidhi Lab



Research Grants

1. Received extramural research grant from SERB in March 2017
Grant Number: SERB-EMR/2016/003186
Project title: "A novel nanoparticle based bioassay for sensitive detection of cancer specific proteases."
Grant Amount: ~67 lakhs; **Role:** Principal Investigator
Project Status: Completed
2. Received POWER grant from SERB in March 2017
Grant Number: SPG/2021/000521
Project title: "Amyloid-like structures formed by single amino acids and its implication in metabolite disorders"
Grant Amount: ~30 lakhs; **Role:** Principal Investigator
Project Status: Ongoing

Current Research Group at Indrashil University

1. Ms. Bharti Koshti (PhD student, SHODH Fellow)
2. Mr. Vivekshinh Kshtriya (PhD student, ICMR SRF)
3. Ms. Monisha Patel (M.Sc. NFSU, PhD student))
4. Mr. Basil Wilson (M.Sc. Kerela University,, PhD student)
5. Mr. Soumick Naskar (M.Sc. IIT Madras, working from home)

Major Student achievements under Guidance/

1. Mr. Vivekshinh Kshtriya (PhD student) earned prestigious Indian Council of Medical Research Senior research (ICMR SRF) Fellowship under my guidance.
2. Ms. Bharti Koshti (PhD student) earned Gujarat Government **SHODH** Fellowship under my guidance.
3. Mr. Vivekshinh Kshtriya (PhD student) won the **best ACS poster presentation award** at International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects (**MMETFP-2021**) organized by Pandit Deendayal Energy University, Gandhinagar, India, held on 19-21 November, 2021. There were 261 participants from all over India and 10 best poster awards from RSC and ACS.
4. Ms. Bharti Koshti (PhD student) won **best oral presentation award** in Junior National Organic Symposium Trust (**XVII J-NOST**) Conference organized by School of Chemistry, University of Hyderabad held on 06-09 January 2022. J-NOST is the most prestigious conference of organic chemistry in India and she was the only Private University PhD student invited in the conference.

International/National Collaborations

1. Prof. Ehud Gazit (Tel. Aviv University, Israel)
 2. Dr. Manoj Pandey (PDP, Gujarat)
 3. Dr. K. B. Joshi (Sagar University, M. P.)
 4. Dr. Dhiraj Bhatia (IIT Gandhinagar)
 5. Dr. Dhiraj K. Singh (IITRAM)
 6. Dr. Danil Bukhvalov (Nanjing Forestry University, China)
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Research Interest and Future Plan

- **Single amino acid self-assembly and its association with IEMs and amyloid diseases:** There are many diseases which are caused by the accumulation of amino acids due to inborn errors of metabolism (IEM). Our aim is to understand the molecular mechanism of these IEM by assessing self-association of amino acids
- **Controlled self-assembly of modified single amino acids:** There is an ever increasing demand to find new scaffold for the design of novel micro/nanoarchitectures which can be of potential interest for diverse applications in material science. In this direction, we are interested in assessing the self-assembly of modified single amino acids under controlled condition. The project aims to find a very simple and facile route for synthesis of novel scaffold for self-assembly.
- **Assessing aggregation properties of heterocyclic compounds for their application as dye and in sensing:** The main objective of this project is to synthesize heterocyclic compounds which can potentially be used as dyes and sensors. Our studies also suggest there is direct correlation between aggregation properties and photophysical characteristic of compounds. Some dyes reveal enhanced fluorescence on aggregation as in aggregation induced emission dyes which some other reveal better fluorescence on disaggregation.
- **Nanoparticle based assay:** The main goal of these projects will be to design safe and efficient nanoparticle-based products for imaging and diagnosis of

diseases like cancer. We have already efficiently designed gold nanoparticle-based assay for facile detection of amyloid inhibitors. We want to develop more novel assay for detection of analyte in minute amounts in future.

List of Publications as Faculty (Original research articles, Preprint, Review, Book Chapter

(* Corresponding author)

Original Research Articles

1. **Gour N***, Kanth P C, Koshti B, Kshtriya V, Shah D, Patel S, Agrawal-Rajput R, Pandey MK. Amyloid-like structures formed by single amino acid self-assemblies of cysteine and methionine. *ACS chemical neuroscience*, **2018** Nov 1;10(3):1230-9. **(Impact factor (2020): 4.418)**
2. **Gour N***, Kshtriya V, Gupta S, Koshti B, Singh R, Patel D, Joshi KB. Synthesis and aggregation studies of a pyridothiazole-based aiee probe and its application in sensing amyloid fibrillation. *ACS Applied Bio Materials*. **2019** Sep 11;2(10):4442-55. **(Impact factor: NA, Impact score 3.25)**
3. Koshti B, Kshtriya V, Nardin C, **Gour N***. Chemical Perspective of the Mechanism of Action of Anti-amyloidogenic Compounds Using a Minimalistic Peptide as a Reductionist Model. *ACS Chemical Neuroscience*, **2021** Jul 15;12(15):2851-64. **(Impact factor (2020): 4.418)**
4. Kshtriya V, Koshti B, Pandey DK, Kharbanda S, Singh DK, Bhatia D, Gour N*. Sequential and cellular detection of copper and lactic acid by disaggregation and reaggregation of the fluorescent panchromatic fibres of an acylthiourea based sensor. *Soft Matter*, **2021**;17(16):4304-16. **(Impact factor (2020): 3.679)**
5. Koshti B, Kshtriya V, Singh R, Walia S, Bhatia D, Joshi KB, Gour N*. Unusual Aggregates Formed by the Self-Assembly of Proline, Hydroxyproline, and Lysine. *ACS Chemical Neuroscience*, **2021** Aug 18;12(17):3237-49. **(Impact factor (2020): 4.418)**
6. Kshtriya V, Koshti B, Gangrade A, Haque A, Singh R, Joshi KB, Bhatia D, Gour N. Self-assembly of a benzothiazolone conjugate into panchromatic fluorescent fibres and their application in cellular imaging. *New Journal of Chemistry*, **2021**; 45(37):17211-21. **(Impact factor (2020): 3.51)**
7. Koshti B, Kshtriya V, Naskar S, Narode H, **Gour N.*** Controlled Aggregation Properties of Single Amino Acids Modified with Protecting Groups. *New Journal of Chemistry*, 2022, DOI: 10.1039/D1NJ05172E. **(Impact factor (2020): 3.51)**

Review

1. **Gour, N.** and Gazit, E.* Metabolite Assemblies: A Surprising Extension to the Amyloid Hypothesis. *Current Opinion in Chemical Biology*, 2021 Oct 1;64:154-64. **(Impact factor (2020): 8.882)**

Preprints in ChemRxiv which are not published (under review in Journals)

1. Kshtriya V, Koshti B, Changedra B, Boukhvalov D, **Gour N.*** Controlled Morphological Changes in Self-Assembled Structures Formed by Fmoc Variants of Threonine and Serine. DOI:[10.26434/chemrxiv.14255477](https://doi.org/10.26434/chemrxiv.14255477) Preprint 2021. (under review in *Soft matter*)
2. Koshti B, Naskar S, Kshtriya V, Narode H, **Gour N.***. Self-assembled Structures Formed by Fmoc modified aliphatic amino acids. DOI:[10.33774/chemrxiv-2021-2930x](https://doi.org/10.33774/chemrxiv-2021-2930x), Preprint 2021 (under review in *New J. Chem*)
3. Kshtriya V, Koshti B, Haque A, Gangrade A, Singh R, Joshi K B, Bandyopadhyay S, Boukhvalov D, Bhatia D, **Gour N.*** Self-Assembly and Photophysical Studies of an Unusual Red Colored Dye Which Show Green Fluorescence in Cell Imaging. DOI:[10.26434/chemrxiv.14135624](https://doi.org/10.26434/chemrxiv.14135624) Preprint 2021 (to be submitted)
4. Kshtriya V, Koshti B, Haque A, Gangrade A, Singh R, Joshi K B, Bandyopadhyay S, Bhatia D, **Gour N.*** Sunflower-like fluorescent Self-assembled morphologies formed by Pyridothiazole based Aggregation Induced Emission (AIE) dye and its cell imaging applications. DOI:[10.26434/chemrxiv.14114210](https://doi.org/10.26434/chemrxiv.14114210) Preprint 2021 (under review in *Soft matter*).
5. Kshtriya V, Koshti B, **Gour N.*** A New Azo Dye Based Sensor for Selective and Sensitive Detection of Cu (II), Sn (II), and Al (III) Ions. DOI: [10.26434/chemrxiv.13708249](https://doi.org/10.26434/chemrxiv.13708249) Preprint 2021 (manuscript to be submitted).
6. Koshti B, Kshtriya V & **Gour N.*** A new azo dye for the selective detection of glycine. DOI:[10.26434/chemrxiv.14135894](https://doi.org/10.26434/chemrxiv.14135894) Preprint 2021 (manuscript to be submitted).
7. Koshti B, Kanth P C, Pandey MK, Nardin C, **Gour N.*** Simple nanoparticle based assay for facile detection of amyloid inhibitors. DOI:[10.26434/chemrxiv.7819661](https://doi.org/10.26434/chemrxiv.7819661) Preprint 2021 (manuscript to be submitted).

Book Chapters

1. Kanth, P. C.; Verma,* S. K.; **Gour N.*(2020)** “Functionalized nanomaterials for biomedical, pharmaceutical, agriculture and agri-food industry” *Elsevier* in “Handbook of Functionalized Nanomaterials for Industrial Applications” Ed. C. M. Hussain.
2. **Gour, N.*** P. Upadhyaya, J. Patel (2019) “Nanomaterials as therapeutic and diagnostic tool for controlling plant diseases” *Elsevier* for a contributed book on “Analysis, fate, and toxicity of engineered nanomaterials in plants “in Elsevier Book Series Ed. D. Barcelo
3. Kshtriya, V., B. Koshti, **Gour N.*(2021)** “Green synthesized Nanomaterials: Classification, Synthesis, Characterization, and Applications” *Elsevier*, USA, Ed. SK Verma and AK Das

List of Publications from PhD and Postdoc

1. Kedracki, D., Filippov, S. K., **Gour, N.**, Schlaad, H., & Nardin, C. (2015). Formation of DNA Copolymer Fibrils Through an Amyloid-Like Nucleation Polymerization Mechanism. *Macromolecular rapid communications*, 36(8), 768-773. (impact factor 4.41)
 2. Abraham, J. N., Gour, N., Bolisetty, S., Mezzenga, R., & Nardin, C. (2015). Controlled aggregation of peptide–DNA hybrids into amyloid-like fibrils. *European Polymer Journal*, 65, 268-275. (impact factor 3.5)
 3. **Gour, N.**, Abraham, J. N., Chami, M., Castillo, A., Verma, S., & Vebert-Nardin, C. (2014). Label-free, optical sensing of the supramolecular assembly into fibrils of a ditryptophan–DNA hybrid. *Chemical Communications*, 50(52), 6863-6865. (impact factor 6.718)
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4. **Gour, N.**, Ngo, K. X., & Vebert-Nardin, C. (2014). Anti-Infectious Surfaces Achieved by Polymer Modification. *Macromolecular Materials and Engineering*, 299(6), 648-668. (impact factor 2.339)
 5. Barman, A. K., **Gour, N.**, & Verma, S. (2013). Morphological transition triggered by mannose conjugation to a cyclic hexapeptide. *ARKIVOC*, 2, 82-99. (impact factor 1.04)
 6. Gour, N., Kedracki, D., Safir, I., Ngo, K. X., & Vebert-Nardin, C. (2012). Self-assembling DNA-peptide hybrids: morphological consequences of oligonucleotide grafting to a pathogenic amyloid fibrils forming dipeptide. *Chemical Communications*, 48(44), 5440-5442. (Selected in Virtual Journal of Nanoscale Science and Technology). (impact factor 6.718)
 7. **Gour, N.**, Barman, A. K., & Verma, S. (2012). Controlling morphology of peptide based soft structures by covalent modifications. *Journal of Peptide Science*, 18(6), 405-412. *J. Pept. Sci.* **2012**, 18, 405-412. (impact factor 2.071)
 8. **Gour, N.**, Mondal, S., & Verma, S. (2011). Synthesis and self assembly of a neoglycopeptide: morphological studies and ultrasound-mediated DNA encapsulation. *Journal of Peptide Science*, 17(2), 148-153. (impact factor 2.071)
 9. **Gour, N.**, & Verma, S. (2009). Bending of peptide nanotubes by focused electron and ion beams. *Soft Matter*, 5(9), 1789-1791. (Selected in Virtual Journal of Nanoscale Science and Technology, May 4, 2009, Vol. 19, issue 18). (impact factor 4.151)
 10. **Gour, N.**, Purohit, C. S., Verma, S., Puri, R., & Ganesh, S. (2009). Mannosylated self-assembled structures for molecular confinement and gene delivery applications. *Biochemical and biophysical research communications*, 378(3), 503-506. (5-year impact factor 2.5)
 11. **Gour, N.**, & Verma, S. (2008). Synthesis and AFM studies of lectin-carbohydrate self-assemblies. *Tetrahedron*, 64(30-31), 7331-7337. (Highlighted in Vertical News) (5-year impact factor 2.899)
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Book Chapters

12. Kedracki, D.; Safir, I.; **Gour, N.**; Ngo, K.; Vebert-Nardin, C. "DNA-Polymer Conjugates: From Synthesis, Through Complex Formation and Self-assembly to Applications" in *Advances in Polymer Science* 2013, 253, 115-150 in H. Schlaad "Biosynthetic polymer conjugates" (5-year impact factor 6.192)
 13. Vijaya Krishna, K.; **Gour, N.**, Verma, S. "Peptide-based soft spherical structures" in *John Wiley & Sons*, 2013, in C. Alemán, A. Bianco, M. Venazi "Peptide. Materials: From Nanostructures to Applications" DOI: 10.1002/9781118592403.ch7
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Reviewer for Journal/Grant:

Served as a reviewer for Journals from Springer, Elsevier, RSC and ACS publishers including high impact Journal *ACS Nano* (IF 15.88).

Served as reviewer of *Israel Science foundation* Grant

M.Sc/M.Tech Thesis Guided

Pruthvi Upadhyay (M.Tech, Mumbai University)

Jainisha Patel (M.Sc. Project student, IAR)

Yash Barot (M.Sc. Project student, IAR)

Harshil Patel (M.Sc. Project student, IAR)

Krupali Hun (M.Sc. Project student, VNSU, Surat)
Rasila Chaudhary (M.Sc. Project student, Indrashil University)
Mayuri Sojitra (M.Sc. Project student, VNSU, Surat)
Yogesh Bhoya (M.sc Project student, Indrashil University)
Rasila Parmar (M.sc Project student, Indrashil University)
Rutik Majethiya (B.Tech Project student, IAR) Bhamini Vasava (M.sc Project student, Indrashil University) Alita Gamit (M.sc Project student, Indrashil University) Ankesh Patel (M.sc Project student, Indrashil University)
Ankita Gamit (M.sc Project student, Indrashil University)

Teaching experience

- Course Instructor for ENVIRONMENTAL CHEMISTRY and GREEN CHEMISTRY course at Indrashil Unvieshil University for M.Sc. IV Sem Chemistry.
- Course Instructor for BIOCHEMISTRY course at Indrashil Unvieshil University for M.Sc. II Sem Biosciences.
- Course Instructor for INDUSTRIAL CHEMISTRY course at Indrashil University for B.Sc. IV Sem Chemistry.
- Course Instructor for ENVIRONMENTAL SCIENCE course at Indrashil University for B.Sc. I Sem Chemistry as well as Biosciences.
- Course Instructor for PHYSICAL and ANALYTICAL CHEMISTRY course at Indrashil University for B.tech. I Sem Chemical Engineering.
- Course Instructor for INORGANIC and ORGANIC Chemistry course at Indrashil University for B.tech. III Sem Chemical Engineering
- Course Instructor for various **Lab courses** ANALYTICAL TOOLS AND TECHNIQUES, PHYSICAL CHEMISTRY, METABOLISM, ENZYMOLOGY, BIOCHEMISTRY courses at various level for B.Sc. and M.Sc. students in both Chemistry and Biosciences at IU.
- Instructor for ANALYTICAL METHODS course for post graduate and undergraduate students at IAR
- Instructor for LABORATORY RESEARCH PRACTICE course for post graduate and undergraduate students at IAR
- Instructor for BIOCHEMISTRY course for post graduate student at IAR
- Instructor for BIOMOLECULES course for under graduate student at IAR
- Instructor for NANO-CHEMISTRY course for post graduate and undergraduate students at IAR

- Instructor for METABOLISM course for under graduate student at IAR
- Instructor for MEDICINAL NANOTECHNOLOGY course for PhD students at IAR
- Lab tutor INTRODUCTORY CHEMISTRY LAB (CHM 101) at IITK
- Theory tutor BASIC ORGANIC CHEMISTRY (CHM 201) and GENERAL CHEMISTRY at IIT Kanpur
- Lab tutor Analytical chemistry in University of Geneva. Trained undergraduate students in HPLC and Fluorescence techniques

Administrative experience

- Member of Academic Council, IQAC cell, anti-ragging squad, and admission counselor at Indrashil University
- Admission coordinator in IAR for 2017 batch: Job included guiding and counselling students and serve as group leader for admissions at IAR.
- Co-Coordinator of Chemistry/ Chemical Engineering at IAR (Jan 2017-Jun 2018)
- Coordinator for chemical engineering courses in 2017 (Jan-July 2017)

Organizer for event/ Seminar

- ❖ Served as **Convener** for **DST INSPIRE Science Camp** organized at Indrashil University (3rd to 7th Jan 2020).
Five-day Camp was attended by 162 students who secured A1 Grade in CBSE/86.7% in Gujarat Board from different School of Gujarat. In, all there were 12 Mentors and each and every Mentor had accomplishments among top in their own area of expertise. The mentors who gave lectures include prominent Scientists like Padma Shri Prof. Anil K. Gupta (President, National Innovation Foundation), Prof. Anil Bhardwaj (Director, Physical Research Laboratories), Padma Shri Prof. RV Hosur (TIFR), Prof. Mohan Rao (Fmr Director. CCMB, Hyderabad), Prof Kankan Bhattacharyya (Fmr Director, IACS Kolkata), Prof. R N Singh (Fmr Director, NEERI, Nagpur), Prof. Harish Padh (Ex-Vice Chancellor, SP University), Prof. D. Basavaiah (University of Hyderabad), Prof. Prafulla Jha (M S University, Vadodara), Prof. Srubabati Goswami (PRL), Dr. Bakulesh Khamar (Executive Director, Cadila Pharmaceuticals). Our Provost and Camp Director Prof. JS Yadav (Fmr Director IICT, Hyderabad) also interacted daily with the students and inspired them towards science.

- ❖ Served as **Coordinator** for **GujCOST weekly Webinar series** organized at Indrashil University (4th Dec to 31st Dec 2020). **Key Speakers:** Kanury Venkata Subba Rao (Fmr Head, THSTI, Faridabad); Dr. Javed Iqbal (Fmr Director, Dr Reddy's Institute of Life Sciences); Dr, S. Chandrashekhar (Director, IICT Hyderabad); Dr. Rakeshwar Bandichhor; (Director of API of Dr. Reddy's Laboratories, Hyderabad (DRL) |Dr. Himanshu Pandya (Vice Chancellor of Gujarat University); Dr. Anamik Shah (Vice Chancellor, Gujarat Vidyapith)
- ❖ **Organising Secretary, INTERNATIONAL e-CONFERENCE-2021** Joint Conference by Nirma and Indrashil University "Covid-19: Challenges and Opportunities in Pharmaceutical Research."
- ❖ Serving as **Webinar Convener and Coordinator** for Indrashil University. Indrashil University holds two Webinar by eminent Scientist monthly. **Key Speakers** invited wherein I coordinated the Webinar are: Prof. KN Ganesh (Director, IISER Tirupati); Prof. Srivari Chandrasekhar (Secretary, DST, Director IICT); Prof. T. K. ChandraShekhar (Fmr Secretary SERB, Fmr Director NISER); Prof. Ram Rajasekharan (Director, CFTRI, Mysore)

Selected Invited Seminars

- Invited speaker in **Senior NOST** held in Chennai at Leela Palace held between 25th to 28th November. The presentation was selected for 15 minutes talk and a sole representation from Private Universities of India. NOST is one of the most prestigious conference of Organic Chemistry wherein the talk is given only to Scientist doing exceptionally well in organic chemistry in India.
- Invited speaker in ISNSCON 2018 6th World congress on Nano medical Sciences held at Vigyan Bhavan Delhi on 7th-10th January 2019
- Invited speaker in National conference at IIT Gandhinagar on 4th and 5th Jan 2018.
- Invited speaker in Newton Researcher links Workshop held at IIT Kanpur in 5th-8th November 2017
- Invited speaker in National Conference on Nanotechnology in Agriculture, Energy and Medicine held on 11th and 12th March 2016 at Central University of Gujarat.
- Invited seminar and visit at CSGI Florence in Prof. Piero Baglioni's group on 18.03.2013 entitled "Self-Assembling Biomolecules"
- Invited Contribution at Swiss Soft Days 9th workshop held on 29-10-2012 Nestle Lausanne, Switzerland entitled "Anti-amyloidogenic effects of oligonucleotides"

- Invited talk and visit at Imperial College London (U.K) in Prof. Molly M. Stevens' group on 18.07.2012 entitled "Self-Assembling Biomaterials"

Selected Seminars/Conference/Presentations

- Oral contribution at Swiss Soft Days 7th workshop held on 13-02-2012 EPFL Lausanne, Switzerland entitled "Self-Assembling Peptide-Nucleotide Hybrids."
 - Presented a poster entitled "Novel Oligonucleotide-Biopolymer Hybrid: Self-Assembly into Hollow Spherical Structures" at USGEB 2012, held on Feb 06-07, University of Lausanne.
 - Presented a poster entitled "Self-Assembling Peptide-Nucleotide Hybrids" at Poly Coll 2012 held on 20th April 2012, University of Fribourg.
 - Oral contribution at COST Symposium held on April 25-27,2012 at Linköping, Sweden entitled "Self-Assembling Bioinspired-Nucleotide Hybrids."
 - Worked as Volunteer in Indo-German symposium "Frontiers of Chemistry, An Indo-German Symposium"(October 26-28, 2007) organized in IIT-Kanpur
 - Talk at 4th National Organic Symposium Trust (NOST), India, for Research Scholars Dec. 6-9, 2008, Madurai Kamraj University, Madurai, India entitled: "Mannosylated soft spherical structures for molecular confinement and gene delivery".
 - Invited Seminar at Department of Chemical Sciences, TIFR, Mumbai (India) on Jan. 18, 2010 entitled: "Peptide based soft self-assembled structures: synthesis, characterization, application and fabrication"
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