CURRICULUM VITAE

Prof. Jayanta Haldar, PhD, FRSC
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Antimicrobial Research Laboratory at JNCASR

Our research integrates an interdisciplinary Medicinal Chemistry and Chemical Biology-based approach for understanding and countering Antimicrobial Resistance (AMR), development of novel therapeutics and newer strategies for tackling infections caused by pathogenic bacteria, fungi and viruses. We have work towards developing smart biomaterials which aid in preventing the spread of infectious diseases, as well as cure infection and enhance wound healing.
The specific aims are:

Novel Therapeutics

- Peptidomimetic small and macromolecular antimicrobial agents
- Semisynthetic glycopeptide and β-lactam antibiotics
- β-lactamase inhibitors
- Broad-spectrum antibiotic adjuvants
- Antibiofilm and anti-persister agents

Smart Biomaterials

- Antimicrobial paints and coatings
- Antimicrobial coatings for invasive biomaterials (catheters, ventilator tubing, etc.)
- Antimicrobial sealants
- Antimicrobial and haemostatic sponges
- Shear-thinning materials for wound dressing
- Injectable antimicrobial wound healing hydrogels

CURRENT POSITION

2021-present Professor, New Chemistry Unit and School of Advanced Materials, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, India

PREVIOUS POSITIONS

2015-2021 Associate Professor, JNCASR, Bangalore, India

2009-2015 Assistant Professor, JNCASR, Bangalore, India

2004-2009 Postdoctoral Associate, Massachusetts Institute of Technology (MIT), Cambridge, USA
With Prof. Alexander M. Klibanov (Chemistry) and Prof. Jianzhu Chen (Koch Institute for Integrative Cancer Research at MIT)

EDUCATION

2005 PhD (Bioorganic Chemistry), Indian Institute of Science, Bangalore, India
With Prof. Santanu Bhattacharya

1999 M.S. (Chemistry, Int. PhD), Indian Institute of Science, Bangalore, India

1996 B.Sc. (Chemistry), Presidency College, University of Calcutta, India

FELLOWSHIPS AND AWARDS

2021 Fellow, Royal Society of Chemistry

2020 Indo-U.S. Science & Technology Forum (IUSSTF) Award for COVID-19 Virtual Networks

2018 8th National Award for Technology Innovation, Ministry of Chemicals & Fertilizers, Govt. of India

2018 Sheikh Saqr Career Award Fellowship
2018 Chemical Research Society of India (CRSI) Bronze Medal
2017 Central Drug Research Institute (CDRI) award for Excellence in Drug Research (In the Chemical Sciences category)
2016 BIRAC-SRISTI-Gandhian Young Technological Innovation (GYTI) award
2016 BIRAC-SRISTI appreciation award
2015 BIRAC-SRISTI-Gandhian Young Technological Innovation (GYTI) award
2015 BIRAC-SRISTI appreciation award
2010 Ramanujan Fellowship, Department of Science and Technology (DST), Government of India
2004 Postdoctoral Fellowship, Dept of Chemistry, Massachusetts Institute of Technology, USA
1996 Integrated PhD Fellowship, Chemical Science Division, Indian Institute of Science, India

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2009-present 8 Postdocs/15 PhD/4 Project Assistant/9 Master/1 PG-DMS/25 SRFP

MEMBERSHIPS/FELLOWSHIPS OF SCIENTIFIC SOCIETIES

2021 Fellow, Royal Society of Chemistry
2019 Member, The Society for Polymer Science, India
2018 Member, Chemical Research Society of India
2018 Member, American Chemical Society

COMMISSIONS OF TRUST/MEMBERSHIPS OF EVALUATION BOARD

Editorial Responsibilities:

- Member of search committee for Editor-in-chief for ACS journal
- Guest editor of the journal “Microbial Pathogenesis” of Elsevier
- Editorial board member of the journal “RSC Medicinal Chemistry”
- Editorial advisory board member of the journal “Biomacromolecules” of ACS
- Editorial advisory board member of the journal “ACS Infectious Diseases” of ACS
- Editorial board member of the journal “Microbial Pathogenesis” of ELSEVIER

Research Grant Reviewing Committee:

- Expert Panel Member for evaluation, monitoring and review of COVID-19 related international research Projects of DST-SERB
- Referee for Agence Nationale de la Recherche funded projects from France
- Referee for FONDECYT Program-Chile´s Research Council- ANID
- Reviewer for Core Research Grants from DST-SERB, India
- Reviewer for research projects funded by DBT India
- Referee for International Project evaluation NSF-USA and USA-Austria bilateral project
- Reviewer for Start-up Company Evaluation, Biotechnology Ignition Grant (BIG) Scheme, DBT India
- Reviewer for GYTI and BIRAC-SRISHTI projects from Govt. of India

Peer Review Contributions:

Contributed as reviewer for international journals such as PNAS USA, Nature Chemistry, Advanced Material, ACS Applied Materials & Interfaces, MedChemComm, Nanoscale, Journal of Medicinal Chemistry, Chemical Sciences, ACS Infectious Diseases, Journal of Polymers and Environment, Comments on Inorganic Chemistry, Polymer, ACS Bio and Med Chem Au, Frontiers in Medical Technology, RSC Advances, Food and function, Biomaterial Science, Materials Chemistry Frontiers, Journal of Biomaterial Sciences, ACS Applied Biomaterials, Chemical Engineering Journal, Organic and Biomolecular Chemistry, European Journal of Medicinal chemistry, ChemBioChem, Journal of Food Sciences, Advanced Functional Materials, ACS Med Chem Letters, ACS Biomaterial Science and Engineering, Emerging Microbes and Infections, British Journal of Pharmacology, Small, Bioorganic Chemistry, Journal of American Ceramic Society, Scientific Reports, Biochemistry, Biochimica et Biophysica Acta, Journal of American Chemical Society, Angewantde Chemie, Bioconjugate Chemistry, Biomacromolecules, ACS Omega, Nature Communications, Biomaterials, Chemical Communication, Journal of Chemical Sciences, Langmuir, RSC Medicinal Chemistry, Pharmaceutical Research, Molecular Pharmaceuticals, Journal of Biological Engineering, International Journal of Antimicrobial Agents, ACS Applied Materials and Interfaces, Journal of Cellular and Molecular Medicine, PLoS One, Frontiers in Microbiology, Letters in Applied Microbiology, Microbial pathogenesis, etc.

Research Thesis Review for Post-graduate and PhD Students:

Contributed as reviewer for PhD and Masters Theses for students from various institutes such as IIT Roorkee, IISER Kolkata, IISER Pune, NCL Pune, CSIR-CSMPRI, IIT Bombay, IISER Bhopal, IICT Hyderabad, IIT Kanpur, IISc Bengaluru, BITS Pilani, IIT Madras, SASTRA University, NCBS Bengaluru.

ORGANISATION OF SCIENTIFIC MEETINGS

2018	Bangalore Healthcare Summit, Bangalore, India, Advisory board member
2017	Newton Bhabha Workshop in collaboration with Public Health of England, Bangalore
2010	Coordinator of In-house Symposium, JNCASR

TEACHING ACTIVITIES

2010-Present	Bioorganic and Medicinal Chemistry (for Masters, Int. PhD and PhD students, JNCASR)
2010-Present	Organic Chemistry Practical (for Masters and Int. PhD students, JNCASR)
2010-Present	Molecules in Life (for Undergraduate POCE Students, JNCASR)

INSTITUTIONAL RESPONSIBILITIES

Scientific Responsibilities:

2021-Present	Special Invitee, Academic Council, JNCASR
2019-2020	Selection committee for Best Thesis in Biological Sciences, JNCASR
2018-Present	Masters Student selection committee, New Chemistry Unit, JNCASR
2014-Present	Masters Student selection committee, New Chemistry Unit, JNCASR
2010-Present	Summer research fellowship (SRFP) program selection committee, JNCASR
2009-Present	PhD Student selection committee, New Chemistry Unit, JNCASR
2009-Present	Internal comprehensive examiner of many PhD, Int. PhD, MS students

Administrative Responsibilities:

2019-Present	Warden, JNCASR
2018-Present	M.Sc. Coordinator, New Chemistry Unit, JNCASR
2017	Member of Electrical Committee, JNCASR
2015-2017	Chairman of the Dining Hall Committee, JNCASR
2014-2015	New Chemistry Unit seminar Coordinator, JNCASR
2013-2015	Member of the Dining Hall Committee, JNCASR

PROJECTS UNDERTAKEN AS PRINCIPAL INVESTIGATOR

Ongoing:

A. National Projects

1. JNCASR and RAK-CAM: Antimicrobial hydrophobic coatings for tiles
2. DST-SERB CRG Project: Development of adjuvants for potentiating and repurposing obsolete antibiotics against multidrug resistant Gram-negative pathogens
3. DST-SERB CRG Project on CoVID-19: Development of antiviral surface coatings to prevent the spread of infections caused by influenza virus
4. DBT project: Small Molecular Mimics of Antimicrobial Peptide to Tackle Eye Infections

B. International Collaborative Projects

1. IUSSTF Award for COVID-19 Indo-U.S. Virtual Networks Project: Development of Antiviral Coatings to Prevent the Transmission of SARS-CoV-2 Viruses
2. Indo-French (CEFIPRA) Joint project: Development and Biophysical Investigations of Small Antimicrobial Peptide Mimetics
3. BRICS Research project: MBLI development of new approaches to overcome MBL-related resistance in bacteria
4. Indo-German Joint (DST) Project: Investigating Mechanism of Action of Membrane Targeting Antibacterial Agents

Completed:

A. National Projects

1. BRNS project: Development of Cationic Cleavable Amphiphiles and Study Aggregation and Antibacterial Properties
2. SERB-EMR (DST) project: Acyclic and Cyclic Lipopeptides to Combat Bacterial Resistance and Eradicate Biofilms
3. TRS-JNCASR Project: Injectable sealant: new technology to prevent surgical site infections
4. BIRAC-SRISTI-PMU Project: Development of a Powerful New Antibiotic that Kills All Drug Resistant Bacteria
5. BIRAC-SRISTI-PMU Project: Develop a novel compound restores obsolete antibiotics to NDM superbugs
6. DST-BIRC CRS Project: Development of new class of glycopeptide antibiotics for tackling drug resistance bacterial infections
7. SERC Fast Track Proposals for Young Scientists: Development of Novel Biodegradable Surface Coatings for Biomedical Application

B. International Collaborative Projects

1. Indo-Portugal (DST) Joint project: Development of novel organic-inorganic antimicrobial composites for bone infections: using Lanthanides doped novel glassy materials associated with hydroxyapatite and antimicrobial polymer

MAJOR COLLABORATIONS

International Collaborations:

- Prof. Shiv Pillai, Medicine and Health Sciences & Technology (HST), Ragon Institute of MGH, MIT and Harvard, Cambridge, MA, USA – Development of Antiviral Coatings to Prevent the Transmission of SARS-CoV-2.
- Prof. L. W. Hamoen, University of Amsterdam, Netherlands - Cell division protein inhibition.
- Prof. Cristiano Marcelo Espinola Carvalho, Dom Bosco Catholic University, Brazil - Development of semisynthetic glycopeptide and betalactam derivatives.
- Prof. Tatiana V. Ovchinnikova, Institute of Bioorganic Chemistry Russian Academy Sciences (RAS), Russia - Development of semisynthetic glycopeptide and betalactam derivatives.
- Prof. Hixen Xie, East University Science Technology, China - Development of semisynthetic glycopeptide and betalactam derivatives.
- Prof. Julia Bandow, Rhur-Univ. of Bochum, Germany - Development of semisynthetic glycopeptide and betalactam derivatives.
- Prof. Octa´vio L. Franco, Universidade Catolica Dom Bosco, Campo Grande, Brazil - In vivo infection study.
- Prof. Lorenzo Stella, University of Rome, Italy – Investigation of antibacterial mechanism of actions.
- Prof. Peter Monk, Department of Infection, University of Sheffield, UK - Ex-vivo infection study.
- Prof. M. N. Seleem, Department of Comparative Pathobiology, Purdue University, USA - Antifungal studies.
- Prof. Bechinger Burkhard, Chemistry Institute, University of Strasbourg, France - Biophysical investigations of small antimicrobial peptide mimetics.
- Dr. Mark Sutton, Public Health of England (PHE), UK - Anti-Ebola activity.
- Dr. Nandyala Sooraj Hussain, University of Porto - Antimicrobial composites for bone infections.

National Collaborations:

- Prof. B. R. Shome & Dr. P. Krishanmoorthy, ICAR-NIVEDI, Bengaluru, India - In vivo infection study.
- Dr. Prashant Garg, LV Prasad Eye Institute, Hyderabad, India - Ex-vivo eye infection study.
- Dr. V. K. Aswal, BARC, Mumbai, India - SANS studies for aggregation behavior of gemini surfactants.
- Dr. Utpal Tatu, Biochemistry, Indian Institute of Science, Bangalore, India - Antimalarial study.
- Dr. Shridhar Narayanan, FNDR, Bangalore, India - Activity against Mycobacterium tuberculosis.
- Dr. Suresh Kumar Jewrajka, CSIR-CSMCRI, India - Development of antibacterial filtration membrane.
- Dr. Colin Jamora, In-Stem Joint Laboratory, NCBS, India - In vivo study on wound healing by hydrogel.
- Prof. Satyavani Vemparala, Institute of Mathematical Sciences, Chennai, India - Theoretical study (MD Simulation) for Membrane
- Dr. Chandra, Vipragen Biosciences, India – Outlicenced our inventions
- Prof. Siddharth Chopra, CSIR-CDRI, Lucknow, India - Antibacterial studies.
- Prof. Nisanth N Nair, IIT-Kanpur, India - Theoretical study (MD Simulation) for betalactamase.
- Dr. R Ravikumar, NIMHANS, Bangalore, India - Development of novel antimicrobial agents to overcome microbial resistance against clinical isolates.
- Prof. Somenath Roy, Vidyasagar University, Midnapore - Studies against clinical isolates of Vancomycin resistant bacteria.
- Dr. Ganesh, Anthem biosciences, Bangalore, India - Antibacterial activity against vancomycin resistant bacteria.
- Prof. C. Narayana, JNCASR, Bangalore, India - Mechanism of action through Raman spectroscopic studies.
- Dr. Meher K Prakash, JNCASR, Bangalore, India - Theoretical study (MD Simulation)- for Membrane
- Dr. Ravi Manjithaya, MBGU, JNCASR, Bangalore, India – Autophagy studies.
- Prof. Kaustav Sanyal, MBGU, JNCASR, Bangalore, India - Antifungal studies.

PUBLICATIONS

Total Publications: 77 Research Articles (58 as corresponding author) + 9 Review articles (8 as corresponding author) + 7 Book Chapters (6 as corresponding author)

Citations: 4077, **h-index:** 39, **i-10 index:** 71 (According to Google Scholar as on 27th October, 2021)

Jayanta Haldar and co-workers,

1. *Macromol. Biosci.* **2021**, *e2100182.*
2. *Wiley Interdiscip. Rev. Nanomed. Nanobiotechnol.* **2021**, *e1745.*
3. *J. Med. Chem.* **2021**, *64*, 10185.
4. *Biomacromolecules* **2021**, *22*, 557.
5. *ACS Appl. Mater. Interfaces*. **2020**, *12*, 27853.
6. *Sci Rep*. **2020**, *10*, 5624.
7. *Front Bioeng Biotechnol*. **2020**, *8*, 55.
8. *ACS Chem. Biol,* **2020**, *15*, 884.
9. *Chem. Commun*. **2020**, *56*, 2147.
10. *ACS Infect. Dis*. **2020**, *6*, 91.
11. *ACS Appl. Mater. Interfaces*, **2019**, *11*, 33559.
12. *ACS Appl. Bio Mater*. **2019**, *2*, 5404.
13. *ACS Appl. Mater. Interfaces,* **2019**, *11*, 39150.
14. *Med. Chem. Commun.,* **2019**, *10,* 1907.
15. *ACS Omega*, **2018**, *3,* 9182.
16. *ACS Biomater. Sci. Eng.*, **2018**, *5*, 81.
17. *Chem. Commun.*, **2018**, *54*, 4943.
18. *ACS Infect. Dis.*, **2018**, *4*, 1093.
19. *Biomacromolecules*, **2017**, *19*, 267.
20. *ACS Omega*, **2017**, *2*, 5187.
21. *PLoS One*, **2017**, *12*, e0183263.
22. *Chem. Eur. J.*, **2017**, *23*, 12853.
23. *Chem. Comm*., **2017**, *53*, 8427.
24. *ACS Appl. Mater. Interfaces* **2017**, *9*, 15975.
25. *ACS Infect. Dis.* **2017**, *3*, 293.
26. *Bioconjugate Chem.* **2017**, *28*, 1194.
27. *Mol. Pharmaceutics*, **2017**, *14*, 1218.
28. *Med. Chem. Comm.* **2017**, *8*, 434.

29. *J. Med. Chem.* **2016**, *59*, 10750.
30. *Viruses* **2016**, *8*, 277.
31. *ACS Appl. Mater. Interfaces* **2016**, *8*, 29298.
32. *ChemMedChem*, **2016**, *11*, 2376.
33. *Mol. Pharmaceutics,* **2016,** *13*, 3578.
34. *Biomacromolecules*, **2016,** *17*, 3094.
35. *Chem. Sci.* **2016**, *7*, 4613.
36. *Angew. Chem. Int. Ed.* **2016**, *27*, 7836.
37. *Chem. Comm.* **2016**, *52*, 4644.
38. *Biomacromolecules* **2016**, *17*, 862.
39. *J. Glob. Antimicrob. Resist.* **2016**, *5*, 71.
40. *Biomaterials* **2016**, *74*, 131.
41. *PLoS One*, **2015**, *10*, e0144094.
42. *ACS Infect. Dis.***2015**, *2*, 111.
43. *ACS Infect. Dis.*, **2015**, *1*, 469.
44. *Bioorg. Med. Chem. Lett.* **2015**, *25*, 5477.
45. *Bioconjugate Chem.,* **2015**, *26,* 2442.
46. *Angew. Chem., Int. Ed.,* **2015**, *54,* 13644.
47. *ACS Infect. Dis.* **2015**, *1*, 469.
48. *Chem. Commun.* **2015**, *51*, 13670.
49. *J. Med. Chem.* **2015**, *58*, 5486.
50. *Int. J. Antimicrob. Agents* **2015**, *46*, 446.
51. *Int. J. Antimicrob. Agents* **2015**, *45*, 627.
52. *PLoS One* **2015**, *10*, e0119422.
53. *ACS Appl. Mater. Interfaces* **2015**, 7, 1804.
54. *J. Antibiot.* **2015**, *68*, 302.
55. *J. Med. Chem.* **2014**, *57*, 9409.
56. *J. Med. Chem*. **2014**, *57*, 4558.
57. *Phys. Chem. Chem. Phys.* **2014**, *16*, 11279.
58. *J. Med. Chem*. **2014**, *57*, 1428.
59. *Chem. Commun.* **2013**, *49*, 9389.
60. *Langmuir* **2012**, *28*, 12225.
61. *J. Phys. Chem. B* **2012**, *116*, 9718.
62. *Proc. Natl. Acad. Sci. USA* ***2012****, 20385.*

63. *J. Pharm. Sci.* ***2011****, 100, 831.*

64. *Biotechnol. Bioeng.* ***2011****, 108, 720.*

65. *Pharm. Res.* **2010**, *27*, 259.

66. *Biotech. Lett.,* **2008**, *30*, 475.

67. *Nature Protocols,* **2007**, *2*, 2412.

68. *Proc. Natl. Acad. Sci. USA* **2006**, *103*, 17667.

69. *J. Colloid Int. Sci.* **2005**, *282*, 156.

70. *J. Med. Chem.* **2005**, *48*, 3823.

71. *Langmuir,* **2005**, *22*, 5747.

72. *J. Phys. Chem. B,* **2004**, *108*, 11406.

73. *Langmuir,* **2004**, *20*, 7940.

74. *Pramana,* **2004**, *63*, 303.

75. *Phys.Chem. Chem, Phys.,* **2003**, *5*, 907.

76. *Appl. Phys A: Mater. Sci. Proc.,* **2002**, *74*, S352.

77. *J. Phys. Chem. B,* **2001**, *105*, 12803.

78. *Angew. Chem. Int. Ed.* **2001**, *40*, 1228.

PATENTS

1. Dhanda, G.; **Haldar, J.**. "Small-molecular adjuvants to repurpose existing antibiotics against multidrug-resistant bacterial infections". PCT/IN2020/050358.

2. Hoque, J, Manjunath, G. B.; Akkapeddi, P.; **Haldar, J.***. Chitin Derivatives, Method for Production and Uses Thereof, - US20180201694A1, IN2013CH05893A.

3. Yarlagadda, V.; Akkapeddi, P.; **Haldar, J.***. Cationic Antibacterial Composition. WO2013072838 A1, US10081655 B2, KR101816228 B1, CA2855753 C, EP2780359 B1, US20140308347 A1, AU2012338461 C1.

4. Ghosh, C.; Manjunath, G. B.; Akkapeddi, P.; **Haldar, J.***. Antimicrobial Compounds, Their Synthesis and Applications Thereof. WO2014097178 A1, US9783490 B2, CA2894202 A1, JP6533466 B2, CN104981249 B, AU2013365769 B2, BR112015014391 A2, HK1210437 A1.

5. Yarlagadda, V.; **Haldar, J.***. Glycopeptide and Uses Thereof. WO2016103284A1 CA2972276 A1, EP3240574 A1, US20170342110 A1.

6. Konai, M. M.; Carroll, M.; **Haldar, J.***. Antimicrobial Conjugates, Method for Production and Uses Thereof. JP2017514887A, WO2015136311A1, EP3116597A1, CA2941933A1, US20170144969 A1

7. Hoque, J.; **Haldar, J.***. A Polymer Network Method for Production, and Uses Thereof. US20200030368 A1, WO2018020516 A2, CA3032292A1.

8. Uppu, D. S. S. M.; Akkapeddi, P.; Manjunath, G. B.; **Haldar, J.***. Nanoparticle Compositions of Antimicrobial Polymers and Their Uses Thereof. WO2014006601A2, US9636356 B2, EP2870186 A2, (KR20150038026A).

9. Yarlagadda, V.; Konai, M. M.; Manjunath, G. B.; **Haldar, J.***. Vancomycin- Sugar Conjugates and Uses Thereof. IN2013CH04314A, CA2925005 A1, WO2015040467A1, US20160303184A1, AU2014322817A1, EP3049115A1.

10. Yarlagadda, V.; **Haldar, J.***. Glycopeptide Antibiotic Derivatives. Indian Patent 605/CHE/2015, Indian Patent 6565/CHE/2014.

11. **Haldar, J.**; De Cienfuegos, L. A.; Chen, J.; Klibanov, A. M. Bi-functional Polymer-attached Inhibitors of Influenza Virus. WO2009032605A2, US20090081249A1, EP2192923A2, CA2698108A1, JP2010537997A.

12. **Haldar, J.**; An, D.; De Cienfuegos, L. A.; Chen, J.; Klibanov, A. M. Polymeric Coatings that Inactivate Viruses and Bacteria. WO2008127416A2, MX2009004918A, JP2010509467A, MA30971B1, ZA200903951B, EP2084234A2, US20100136072A1, CN101627092A, BRPI0718860A2.

OUTLICENCED INVENTIONS

Our inventions on small molecular antimicrobial agents, glycopeptide derivatives and antimicrobial coatings have been out-licensed to biotech companies.

MEDIA COVERAGE OF RESESRCH WORK

A. Antimicrobial Research

The contribution of Dr. Haldar Lab on antimicrobial research been recognized and displayed at the National Science Museums, touring in various cities in India as part of an exhibition "Superbugs – The end of Antibiotics?" The exhibition was organised in collaboration with National Council of Science Museums-NCSM & Science Museum London (https://www.superbugs.in/index.php)

B. Small molecular antimicrobial peptide mimicking drug-candidates

Featured in ACS Chemistry for Life (15th March, 2017), EurekAlert! The Global Source for Science News (15th March, 2017), NEWS MEDICAL LIFE SCIENCES (15th March, 2017), PHY.ORG (15th March, 2017), DOLPHNSIX (15th March, 2017), UPI (15th March, 2017), Medicalnewser.com (15th March, 2017), MNT (15th March, 2017), Outbreak News Today (15th March, 2017), Wn.COM (15th March, 2017), GLOBAL NEWS BLOG (16th March, 2017), Science Newsline Medicine (16th March, 2017), LABline (16th March, 2017), JAB NEWS (16th March, 2017), ALN (17th March, 2017), MedicalNewsToday (17th March, 2017), INVERSE SCIENCE (18th March, 2017), azcentral (18th March, 2017), FirstWord PHARMA (19th March, 2017), Standard-Times (19th March, 2017), HiTechDays.com (19th March, 2017), NORTH SHORE NOW (19th March, 2017), MDLinx, Top News in Dermatology (22nd March, 2017), MDLinx, Top News in Dermatology (22nd March, 2017), India Science Wire (23rd March, 2017), Canada Free Press (22nd March, 2017)

C. Antibiotic adjuvants

Featured in The Hindu (3rd September, 2017), Featured in Atlas of Science (6th February, 2020), "The difference of an amide to ester in polymers does the magic"

D. Novel class of Glycopeptide antibiotics

Featured in nature INDIA (17th November, 2015), The Times of India News (10th July, 2014), World of Chemicals (10th July, 2014), Pakistan Defence (12th July, 2014), The New Indian Express (13th July 2014), Health City (13th July 2014), Scroll.in (18th July 2014), Rajya Sabha TV, Science monitor and Gyan Vigyan programme (2nd August 2014), DD India TV, Science this week programme (3rd August 2014)

E. Anti-*A. baumanni* macromolecular agents

Featured in The Hindu (14th December, 2019)

F. Antibacterial, antifungal, antiviral coating

Featured in DST Homepage (6th April, 2020), Vigyan Prasar (6th April, 2020), The Times of India (29th March, 2020), The Wall, Press Information Bureau, Government of India (1st April, 2020), Indian Chemical News (2nd April, 2020), Tribune India (2nd April, 2020), Democratic Accent, Navodaya Times (3rd April, 2020), Freshers Live (6th April, 2020), NDTV 6th April, 2020)

G. Antibacterial and antiviral paints

Featured in Scientific American (13th November, 2006), Chemical Engineering News, American Chemical Society (20th November, 2006, Vol. 84, 17), MIT TechTalk (6th December, 2006), BBC News (29th December 2006)