RAJIV DUTTA, M.Tech (IIT-Kharagpur), Ph.D (BITS-Pilani)
Dean- Research and SBES, Shobhit University,
GANGOH, Distt.: Saharanpur, UP
Sr. Professor in BioEngineering & Biophysics
Shobhit Institute of Engineering & Technology (Deemed-to-be-University), Meerut
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LiveDNA: 91.11786; VIDWAN (UGC) ID: 141534 (https://vidwan.inflibnet.ac.in/profile/141534)

An Academic Administration Position with teaching and high quality Research activity in Interdisciplinary Life Sciences

MY UNIQUE SELLING PROPOSITION (USP)

- **VIDWAN (UGC) Score: 10/10**
- Excellent knowledge about UGC Act, University Act, Statutes and Ordinances, prepared these documents for Private or Deemed Universities. Involved in UGC, AICTE, NBA, NAAC and NIRF documentations and inspections at various Universities.

QUALIFICATIONS

(a) Educational (PG degrees only):

Birla Institute of Technology and Science, Pilani, Rajasthan, India
Ph.D. in Biotechnology, September 1998
Title of the thesis: The biophysical mechanism(s) of electrical stimulation on *in vitro* growth and differentiation in *Populus deltoids* and *Nicotiana tabacum*.

Indian Institute of Technology, Kharagpur, W.B., India
M.Tech. in Biotechnology and Engineering, January 1989
Title of Dissertation: Bioproduction of diosgenin through *in vitro* culture of *Kallstroemia pubescens* (G. Don) Dandy

Kanpur University, Kanpur (Feroze Gandhi College, Rae Bareli)
M.Sc. in Botany, July 1985
Specialization: Plant Pathology

Additional Qualification:

Symbiosis University Center for Distance Learning, Pune, India
Post Graduate Diploma in Educational Administration (PGDEA), August, 2017

(b) Elected Fellow or Member of the Learned Academies/ Societies

(a) **Royal Society of Biology, London (Fellow)**
(b) **Institute of Physics, London (Fellow)**
(c) **International Society for Research and Development (Fellow)**
(d) **The American Society of Research (Fellow)**
(e) **International Academy of Science, USA (Elected Senior Member)**
(f) **National Academy of Sciences, India (NASI) (Elected Member)**
(g) **Sigma-Xi, USA (Elected Member)**
(h) **International Academy of Science, USA (Elected Senior Member)**
(i) **American Association of Science and Technology (Fellow)**

(c) Professional Training:

	Place	Title of Training	Duration
1	KG Medical College, Lucknow	Animal Cell Culture techniques for chromosomal preparation	Dec. 1986 to July 1987
2	National Chemical Laboratory, Pune	Plant Tissue Culture for micropropagation, somaclonal variation and protoplast technology for plant improvement	Feb. 1 to 14, 1988
3	National Botanical Research Institute, Lucknow	Plant Tissue Culture Techniques	May 1988 to Dec. 1988
4	Center for Cell and Tissue Culture, Kyoto University, Kyoto	Image analysis in Plant Tissue culture	June 3 to 23, 1998
5	Birla Institute of Technology & Science, Pilani	Indo-US workshop on Recombinant DNA and its application in drug discovery and Biotechnology	Feb. 22-27, 1999
6	Birla Institute of Technology & Science, Pilani	BRNS National workshop on Radiochemistry and application of radioisotopes	Oct. 15-22, 2000
7	The Nobel Foundation, Ardmore, OK and Oklahoma State University, Stillwater, OK	Bioinformatics Fundamentals	June 1-10, 2001

WORK EXPERIENCE

(a) Teaching Experience:

Oct. 1993 to Dec.2000	Lecturer/ Lecturer-Senior Scale at the Biological Science Group, Birla Institute of Technology & Science, Pilani, India (Core Group faculty at Center for Biotechnology- A multidisciplinary center)
July 2005-August 2009	Professor & Deputy Director (Off. DIrector), AMITY Institute of Biotechnology, Amity University Uttar Pradesh, Lucknow
August 2009- July 2011	Professor & Director, School of Biotechnology and SU-QNS Center for Excellence in Nanotechnology and Bio-inforamtics, Shobhit University, Meerut, India
August 2011- August 2012	Director, School of Biotechnology, IFTM University, Moradabad.
August 2012-August 2013	Dean and Sr. Professor, Faculty of Biological Engineering, Graphic Era University, Dehradun
August 2013-July 2016	Director and Sr. Professor, Institute of Bioscience & Technology (IBST), Shri Ramswaroop Memorial University, Barabanki.
July 2016-August 2017	Professor, Department of Biotechnology, SET, Sharda University, Greater Noida Coordinator-NIRF for School of Engineering & Technology
September 2017- June 2018	Professor, Department of Biotechnology, CET, IILM-AHL, Greater Noida (Involved with proposal of University with UP and Haryana Group)
July 2018 –Sept 2020	Professor in Bio-Engineering & Dean (Applied Sciences), Dr. KN Modi University, Newai-Banasthali
Sept. 2020- till date	Dean-Academics and Dean School of Biological Engineering & Life Sciences, Shobhit Institute of Engineering & Technology (Deemed-to-be-University), Meerut
Nov. 2021- till date	Dean- Research & School of Biological Engineering, Shobhit University, Gangoh and Professor, SIET-DU
Courses Taught during above assignments:	Biochemical Engineering, Bioprocess Engineering, Cell & Tissue Culture Technology, Nano-Biotechnology, Fermentation Technology, Plant Biotechnology, Biomedical Instrumentation, Cell Biology, Biophysics, and General Biology. Research Methodology
Laboratory Courses Involved:	Cell and Tissue Culture Tech. (includes the Laboratory Component) Measurement Techniques-I (Core level Laboratory) Genetic Engineering (Higher level Laboratory)

(b) Resource person for various programs:

	Program	Venue	Duration
1.	AICTE-ISTE Short term training programme on Molecular Biology techniques in Biotechnology	Birla Institute of Technology & Science, Pilani	Dec. 18-30, 2000
2.	AICTE Staff Development Program on Nanotechnology	Vivekanandha College of Engineering for Women, Trichengode, TN	June 1-14, 2011
3.	AICTE-LSFI Workshop on Nanotechnology	MIET, Meerut	Nov 22-26, 2011

(c) Research Experience:

1985-1987	Research Assistant	ICMR Center for Advanced Studies on Genetic Diseases, King George's Medical College, Lucknow
1989-1991	Scientist Fellow	National Botanical Research Institute, Lucknow
1991-1993	Scientist (DST-Young Scientist's Project)	CSIR Complex (now Institute of Himalayan Bioresource Technology), Palampur.
1997	Visiting Scientist Short term	Microgravity & Cell Polarity Project, San Francisco, USA
2001-2002	Research Faculty	Department of Botany, OSU, Stillwater, OK, USA
2002-2004	Research Faculty	Dept. of Biological Sci., Purdue University, West Lafayette, IN, USA
2004-2006	Research Specialist (Ion channel)	Nanion Technologies Laboratory, Purdue Discovery Park, West Lafayette, IN USA

(d) Honorary Positions:

1	Biosensor Academy of India, Lucknow	Honorary Professor	2006-till date
2	Indo Asian Academy Bangalore	Quantum NanoScientific Chair Visiting Professor in Nanobiotechnology	2010-2016
3	Seira LifeScience Inc. Melbourne, Australia	Honorary Scientific Advisor	2011-till date
4	Life Science Foundation of India	Hon. Advisory Board Member	2012- till date

(e) Principal Investigator of various sponsored Projects:

	Title of the Research Projects	Sponsoring Agency
1	Studies on the effect of magnetism on plants	Indian Association of College Going Scientists, Calcutta
2	Studies on the effect of weak electric current on growth and differentiation in tissue culture	Department of Science & Technology, Govt. of India, New Delhi
3	Electrical influence on physiological changes with organogenesis in tissue culture	University Grants Commission, Govt. of India, New Delhi
4	Studies on the electrical resistances of graft union in Rose	University Grants Commission, Govt. of India, New Delhi
5	Studies on the electrical coupling in root hairs	University Grants Commission, Govt. of India, New Delhi
6	Large scale cultivation of plant cells for production of medicinally important compounds	Department of Science & Technology, Govt. of Rajasthan, Jaipur
7	Studies on the Biochemical response of electrical signaling in the reproductive system of *Hibiscus rosa sinensis*	University Grants Commission, Govt. of India, New Delhi

(f) Associated as Team Member with various sponsored research projects:

	Project Title	Sponsoring Agency & PI
1	Genetic counseling and prenatal diagnosis of various genetic diseases	Indian Council of Medical Research, GoI **Prof. SS Agrawal & Dr. S Das, KGMU**
2	Tissue culture of *Shorea robusta* and *Populus deltoids*: Development of technological know how	Department of Biotechnology, GoI **Dr. HC Chaturvedi, NBRI**
3	Studies on the Bioremediation of heavy metals using cyanobacteria with special reference to nuclear wastes	BRNS, Department of Atomic Energy, GoI **Prof. SK Verma, BITS**
4	Pollen tube growth and polarity: Knowhow develoment	NSF, USA **Prof. KN Robinson, PU, USA**

(g) First-Degree Thesis Supervised:

	Name of the students and Thesis Degree	Title of the Thesis
1	Mr. MSKR Chakravorthy B.E. (Computer Sc.)	Computer Optimization of Plant Tissue culture production.
2	Mr. KG Srikumar B.E. (Chemical Engg.)	Analysis and design of Bioreactors – with special emphasis to optimization.
3	Mr. Bhavin C. Shah B.E. (Chemical Engg.)	Tissue culture of *Vinca rosea* – with special reference to the technological problems in large culture volume.
4	Mr. M. Sunil Kumar M.Sc. (Biological Sc.)	Mathematical modeling of neurons and neurocomputers.
5	Miss N. Prathibha B.E. (Chem. Engg.)	The magnetically stabilized Fluidized bed: A novel bioreactor for Plant Tissue Culture
6	Miss Jaya T. Chari B.E. (Chem. Engg.)	Mathematical Modeling and simulation studies on Tumbling reactor with special reference to phototrophic organism
7	Mr. Suresh Emmanuel B.E. (EEE)	Digital signal processing of heart sounds: A diagnostic tool
8	Ms Pragati Sahai M. Phil (Biotechnology)	The effect of external EMF on cell volume in *Nicotiana tabaccum* and on pollen tube growth in *Lillium longiflorum* in presence of GABA

(h) Doctoral Thesis Advised:

S.N.	Name of the students and Thesis Degree	Title of the Thesis	University
Completed:			
1	Ms. Jingwei Yin	Role of endocytosis at pollen tube tip during calcium influx (with Prof. KR Robinson)	Purdue Uni, West Lafayette, IN, USA
2	Mr. Ashok Kumar Mishra	Studies on the development of an electrical Biosensor for the Measurement of the Graft Union Success Rate in Biophysical Systems	DDU Gorakhpur Uni
3	Ms. Suchi Smita	Identification of suitable target for GsMTx-4: A venom peptide from *Tarantula* for treatment of High Blood Pressure	Integral University, Lucknow
4	Ms. Shilpi Srivastava	Studies on the Biosynthesis of silver nanoparticle using fungi immobilized system for its anti-bacterial activity	Integral University, Lucknow
5	Mr. Nabeel Ahmad	Studies on Synthesis, Characterization and Application of Metallic Nanoparticles	IFTM University, Moradabad
6	Mr. Anil Pandey	Validation and Optimization of Leads against Fab enzyme regulating in *Plasmodium Falciparum* : An *In silico* study	Shri Ramswaroop M. University, Barabanki
7	Ms. Pragati Sahai	Development of green root cell lines for Eco-friendly production of Nano-conjugates	Sharda University, Greater Noida
8	Ms Chhavi Goel	Studies on Antimicrobial and Antioxidant potential of *Adansonia digitata*	SIET-DU, Meerut
Ongoing:			
1	Mr. Ayush Madan	Studies on the Cytotoxic effects of glod and sliver nanoparticles on human cells with special reference to chromosomal abberrations	Shobhit Deemed University (SIET)
2	Ms. Sweety Thakur	Biosynthesis and characterization of metal nanoparticles for it antimicrobial activity against selected plant pathogens	Shobhit Deemed University (SIET)
3	Ms Chhavi Goel	Studies on antimicrobial and antioxidant potential of Adansonia digitata	Shobhit Deemed University (SIET)

(i) Editorial Board/Review Committee Member for Journals:

1. Internaional Journal of Engineering
2. Vegetos
3. Journal of Biotech Research
4. Research Journal of Pharmacy and Technology
5. Plant Science Today
6. Journal of Applied Biology and Biotechnology
7. Plant Cell Biotechnology and Molecular Biology
8. International Journal of Applied Science & Biotechnology
9. International Journal of Bioprocess & Biotechnological Advancements
10. Journal of Eco-friendly Agriculture
11. Plant Archives
12. Indian Journal of Life Sciences
13. Acta Scientific Agriculture
14. International Journal of Nanomedicine
15. Physiology and Molecular Biology of Plants
16. Material Science and Engineering C
17. American Journal of Plant Physiology
18. Asian Journal of Cell BiologyAsian
19. Journal of Biotechnology
20. Journal of Plant Sciences
21. Asian Journal of Plant Sciences
22. International Journal of Botany
23. International Journal of Biotechnology and Life Sciences
24. American Journal of Science & Technology
25. Journal of Plant Growth Regulation
26. American Journal of Microbiology and Biotechnology
27. Nanoscience & Nanotechnology-Asia
28. Current Nanoscience
29. IET Nanobiotechnology

(j) Representation in the various Academic/ Administrative Committees:

At BITS, Pilani (1993-2000):

1. Nucleus Member, Research and Consultancy (R&C) Division.
2. In-charge, Sponsored Research Program at RCD.
3. In-charge, Higher Degree and First Degree Research Program.
4. Member, Research Board.
5. Member Ph.D. entrance committee for Biotechnology.
6. Member, Core Committee, Center for Biotechnology.

At Amity University Uttar Pradesh, Noida (2005-2009):

1. Member, Academic Council
2. Member, Board of Studies for Biotechnology

At Amity University Uttar Pradesh, Lucknow Campus (2005-2009):

1. Member, Research Advisory Board
2. Member, Disciplinary Committee
3. Chairman, Purchase Committee for Chemicals and Consumables
4. Chairman, Faculty Recruitment Committee for Biotechnology
5. Member, Faculty Recruitment Committee for Engineering and Technology
6. Member, Committee for Awards of Scholarships
7. Chairman, Academic Excellence Award Committee for Biotechnology
8. Chairman, Departmental Research Committee
9. Member of Selection Committee for:
   (a) Administrative Executive, Administrative Officer, Front Office Executive
   (b) Laboratory Demonstrator, Assistants and Attendants
   (c) Office Assistants and Computer Operators
10. Chairman, Committee for Pest Free Campus

At Shobhit University, Meerut (2009-2011):

1. Member, Academic Council
2. Member, UGC Inspection Committee
3. Chairman, Board of Studies for Biotechnology
4. Chairman, Commission for Grade Reforms
5. Chairman, Academic Program Committee
6. Member, Committee for Modifying Ordinances for B.Tech., M.Tech. and Ph.D.

At IFTM University, Moradabad (2011-2012):

1. Member, Executive Council
2. Member, Academic Council
3. Member, Planning Board
4. Member, Examination Committee
5. Chairman, Doctoral Research Board
6. Chairman, Board of Studies for Biotechnology
7. Chairman, Faculty Board
8. Member, Pay Revision Committee for IFTMU faculties

At Graphic Era University, Dehradun (2012-2013)

1. Chairman, Ordinance Committee
2. Member, Executive Council and Academic Board
3. Chairman, Board of Studies and Faculty Board
4. Chairman, Departmental Research Committee

At SRMU, Barabanki (2013-2016)

1. Member, Executive Council & Academic Council
2. Director & Chief Coordinator, Internal Quality Assurance Cell (IQAC)
3. Chairman, Curriculum Development Committee
4. Chairman, Choice Based Credit System Committee
5. Chairman, Faculty Performance Appraisal & Promotion Committee
6. Chairman, Lateral Entry Equivalence Committee
7. Academic Advisor, ERP
8. Member, Research Board
9. Chairman, Board of Studies
10. Chairman, Institute Research Committee

At Sharda University (2016-18):

1. Co-ordinator, NIRF, School of Engineering & Technology
2. Member, Doctoral Research Committee, Department of Biotechnology, SET

At KN Modi University (2018-2020):

1. Dean-Academics
2. NAAC SAR committee member

At Shobhit University (2020-till date):

1. Dean-Academics
2. Dean-School of Bioengineering & Life Sciences
3. Chairman NIRF committee
4. Chairman, Examination Committee and Result Moderation Committee
5. Chairman, National Education Policy 2020 Implementation Committee

At Other Universities:

1. Member, Board of Studies for Biotechnology at UP Technical University
2. Advisory Member, Biotechnology Syllabus at Rajasthan Technical University
3. Advisory Member, Biotechnology Syllabus at West Bengal Technical University
4. Member (External Expert), Faculty Board, Faculty of Engineering, Integral University, Lucknow
5. Member (External) Choice Based Credit System Implementation Committee, Integral University, Lucknow

UGC, AICTE, NIRF and NBA Coordination:

1. Prepared Mandatory Disclosures for submission at AICTE on behalf of Amity Institute of Biotechnology, Lucknow (AIB-L).

2. Coordinated UGC Inspection and documentation for Amity University Uttar Pradesh for its constituent institute AIB-L.
3. Coordinated Inspection and documentation for ISO 9001:2000 and ISO 14000:2004 for Amity Institute of Biotechnology, AUUP, Lucknow.
4. Coordinated Inspection and documentation for ISO 9001:2008 for Shobhit University, Meerut.
5. Coordinated UGC Inspection and documentations for School of Biotechnology, Shobhit University, Meerut (twice).
6. Coordinated UGC Inspection and documentation at GEU, Dehradun.
7. Coordinated UGC Inspection and documentation at SRMU, Barabanki. Appointed Coordinator of UGC Expert Committee visit.
8. Coordinator-NIRF for School of Engineering, Sharda University.
9. Advisor-NBA at IILM-AHL CET.

(k) Development of Institutes/ Centers/ Schools:

1. The Center for Biotechnology was created at the Biological Science Group. I was the Member of the core committee of the center. The core committee comprises eight faculty members from Biological Science, Chemistry, Physics and Pharmacy Groups.
2. Amity Institute of Biotechnology, Lucknow (AIB-L), A constituent institute under Amity University Uttar Pradesh (AUUP) was created in 2005 and I joined as the Faculty, Deputy Director and founder Head of the institute. Since joining I was delegating the duties as officiating Director. At the time of my joining AIB-L total earning was INR 90 lakhs and when I left AIB-L in August 2009 the earning was elevated to over INR 12 carores. I was instrumental in designing and developing all the laboratories at AIB-L and recruitment of faculties. I was also involved in promoting R&D efforts at AIB-L.
3. During my tenure the Center for Advanced Research in Biosensor Technology was created as its founding Director. It was an advance research center in the area of Biosensor and Bioelectronics.
4. School of Biotechnology at Shobhit University, Meerut was created in 2007 and I have taken over as its first Director in August 2009. Since then I was involved in improvement of existing infrastructure and course curriculum. I was instrumental in the creation of Central Instrument Facility of the University. I was also responsible in promoting R&D activities within the School. On behalf of SBT, I have signed three MoUs through the SBT with various companies for training and R&D bilateral collaborations
5. During my tenure the Shobhit University- Quantum NanoScientific (SU-QNS) Center for Excellence in Bio-informatics was created with the help of Melbourne -Chennai based company Quantum NanoScientifc. and Nanotechnology
6. Signed MoU on behalf of IFTM University, Moradabad with Life Science Foundation of India (LSFI) for Academic and Research collaborations between both centers, ultimately the creation of IFTM-LSFI program on Nano-biotechnology.
7. Appointed as Founding Director at the Institute of BioScience and Technology (IBST) a constituent institute of Shri Ramswaroop Memorial University, Barabanki. Introduced several academic courses at the IBST and developed curriculum for those courses and laboratories.
8. Created the Department of Life Sciences at Dr. KN Modi University at Newai, Rajasthan.

Organization of Conference/Seminar/ Workshops as Chairman/ Convener:

1. Workshop on Bioinformatics Techniques organized jointly with Bioinformatica Solution, Lucknow at Amity Institute of Biotechnology-Lucknow (AIB-L) in October 26, 2005.
2. National Conference on Nano-biotechnology in joint collaboration with NBRI-Lucknow hosted partly at NBRI and AIB-L in March 22-25, 2006.
3. National Seminar on Genomics and DNA Finger Printing at AIB-L on September 1-2, 2007.
4. International Conference on Nanoscience and Nanotoxicology jointly with Indian Nanoscience Society and IITR-Lucknow (AIB was Academic partner)
5. National Conference on Eco-friendly Agriculture jointly with DKVS-Lucknow at AIB-L November 28-30, 2008.
6. National Seminar on Nanotechnology organized at Shobhit University, Meerut on March 23, 2010.

7. National Conference on Genes and Genomes at Shobhit University, Meerut August 28-29, 2010.
8. National Workshop on Drug Discovery at Graphic Era University on November 10-12, 2012.
9. National Conference on BioMechanics and Annual Meeting of Society of BioMechanics-India, April 1-3, 2013.
10. International Conference on Advances in Biophysics (ICAB-2015), Suzhou, China March 18-20, 2015 **(Technical Program Committee Member and Invited speaker).**
11. Conferences on Advances in Cell Biology (CACB-2015), Reston, VA, USA; March 20-23, 2015 **(Technical Program Committee Member).**
12. International Conference on Biochip, Biosensor and Bioelectronics (ICBBB-2015), Shanghai, China; September 18-20, 2015 **(Technical Program Committee Member and Invited speaker and session chairman)).**
13. 6th World Conference on Biotechnology, New Delhi; October 5-7, 2015 **(Organizing Committee Member and invited speaker).**
14. Conferences on Advances in Cell Biology (CACB-2016), Los Angeles, CA, USA; March 18-20, 2016 **(Technical Program Committee Member and Invited speaker).**
15. International Conference on Advances in Biophysics (ICAB-2016), Los Angeles, CA, USA March 18-20, 2016 **(Technical Program Committee Member and Invited speaker).**
16. 2nd Int'l Conference on Biochips, Biosensors and Bioelectronics (ICBBB-2016), Sanya, China, December 1 to 3, 2016 **(Technical Program Committee Member and Invited speaker).**
17. 3rd Conference on Advances in Cell Biology (CACB-2017) Xi'an, China, March 18 to 20, 2017 **(Technical Program Committee Member and Invited speaker).**
18. 19th International Conference on Biomechanics and Biological Engineering; ICBBE Osaka March 30-31, 2017 ICMCA San Diego 2017, **(Technical Program Committee Member and Invited speaker).**
19. 3rd International Conference on Biomaterials and Applications (ICBA 2017) Guilin, China, July 20 to 22, 2017. **(Technical Program Committee Member and Invited speaker).**
20. 20th International Conference on Sports Medicine and Research; ICSMR Amsterdam August 6-7, 2018 **(International Scientific Committee Member).**
21. 20th International Conference on Applied Biomechanics, ICAB Zurich September 13-14, 2018 **(International Scientific Committee Member).**
22. International Conference on Applications of Biotechnology and Agriculture Engineering, Kuala Lumpur, Malaysia, February 11 - 12, 2019. **(International Scientific Committee Member).**
23. International Conference on Recent Developments in Molecular Electronics, Venice, Italy, April 11 - 12, 2019. **(International Scientific Committee Member).**
24. International Conference on Sustainable Technologies for Agriculture and Applications of Agricultural Biology Paris, France, April 18 - 19, 2019. **(International Scientific Committee Member).**
25. International Conference on Biosensors and Nanobiosensors, London, United Kingdom, April 24 - 25, 2019. **(International Scientific Committee Member).**
26. International Conference on Biosensors and Nanobiosensors, London, UK, April 23-24, 2020 **(International Scientific Committee Member).**
27. International Conference on Bioprocess Engineering and Biotechniques, Bangkok, Thailand, August 20-21, 2020 **(International Scientific Committee Member).**
28. International Conference on Biomaterials and Tissue Engineering, London, UK, January 21-22, 2021 2020 **(International Scientific Committee Member).**
29. International Conference on Mechatronics, Electronics and Automation Engineering, Venice, Italy, August 12-13, 2021 **(International Scientific Committee Member).**
30. International Conference on Bioengineering and Systems Biology, Toronto, Canada, September 20-21, 2021 **(International Scientific Committee Member).**
31. International Conference on Biochemical, Bioprocess and Biomedical Engineering, Istanbul, Turkey, January 28-29, 2022 **(International Scientific Committee Member).**
32. International Conference on Molecular Physics and General Principles, Rio de Janeiro, Brazil, March 04-05, 2021 **(International Scientific Committee Member).**
33. International Conference on Bioengineering and Biomedical Engineering , Lisbon, Portugal, April 15-16, 2021 **(International Scientific Committee Member).**

34. International Conference on Synthetic Biology and Metabolic Engineering, Paris, France, July 19-20, 2021 **(International Scientific Committee Member).**
35. **International Conference on Biomedical Engineering and Science,** May 03-04, 2023 in Singapore, Singapore **(International Scientific Committee Member).**
36. **International Conference on Biotechnology and Bioengineering,** September 05-06, 2024 in Sydney, Australia **(International Scientific Committee Member).**
37. **International Conference on Biotechnology and Bioengineering,** September 25-26, 2023 in Vancouver, Canada **(International Scientific Committee Member).**
38. **International Conference on Biotechnology and Bioengineering,** January 07-08, 2024 in Tokyo, Japan **(International Scientific Committee Member).**
39. **International Conference on Bioprocess and Fermentation Technology,** January 28-29, 2024 in Bengaluru, India **(International Scientific Committee Member).**
40. **International Conference on Cell Culture Engineering and Molecular Biology**, February 22-23, 2024 in New Delhi, India **(International Scientific Committee Member).**
41. **International Conference on Biosensors and Bioelectronics**, February 22-23, 2024 in New Delhi, India **(International Scientific Committee Member).**
42. **International Conference on Applied Biology and Biotechnology,** July 15-16, 2024 in Stockholm, Sweden **(International Scientific Committee Member).**
43. **International Conference on Bionanotechnology and Biomechanical Engineering,** July 19-20, 2024 in Paris, France **(International Scientific Committee Member).**
44. **International Conference on Biomechanics** February 15-16, 2025 in Mumbai **(International Scientific Committee Member).**
45. **International Conference on Biosensors and Bioelectronics** February 15-16, 2025 in Mumbai, India **(International Scientific Committee Member).**
46. **International Conference on Biosensors and Bioelectronics** January 09-10, 2025 in Honolulu, United States **(International Scientific Committee Member).**
47. **International Conference on Biomechanics**, March 17-18, 2025 in Paris, France **(International Scientific Committee Member).**
48. **International Conference on Biosensors and Bioelectronics**, March 24-25, 2025 in Ottawa, Canada **(International Scientific Committee Member).**
49. **International Conference on Advanced Biomaterials for Bone Tissue Engineering**, May 17-18, 2025 in Sydney, Australia **(International Scientific Committee Member).**
50. **International Conference on Biochemical and Biomedical Engineering,** July 15-16, 2025 in Stockholm, Sweden **(International Scientific Committee Member).**

Organized a Faculty Development Program as Organizing Chairman

Theme: Interactive sessions on Effective Teaching- Learning Process at SRMU, Barabanki; July 6-11, 2015.

Resource Person for Workshop

AICTE sponsored Staff Development Program on Nanotechnology at the Department of Biotechnology, Vivekanand College of Engineering for Women, Tirchengode, Namakkal, TN from June 1 to 14, 2011.

NanoBioTech Workshop: Integrating Biosensorsand Nanotechnology for Advanced Diagnostics organized by the Nano Science and Technology Consortium, NOIDA, UP from 29 January 2024 to 31 January 2024

PROFESSIONAL AFFILIATIONS

1. International Association for Plant Biotechnology
2. International Society for Bioelectromagnetism
3. Indian Science Congress Association
4. Indian Biophysical Society
5. Indian Society for Technical Education
6. Indian Association of Nuclear Chemists and Allied Sciences.
7. New York Academy of Sciences
8. Sigma Xi- The Scientific Research Society
9. Indian Society of Cell Biology
10. Biomedical Engineering Society of India
11. Indian Society of Biomechanics
12. Indian Nanoscience Society
13. The Biotech Research Society of India
14. Society of Biotechnologists in India
15. Society of Plant Biochemistry and Biotechnology
16. Institute of Nanotechnology, Sterling

Award and Honours

1. ISCA Young Scientists Award Lecture 1992 and 1993
2. Young Scientist's Award Gold Medal-1997 at the 35th World Congress of Natural
3. Medicines, Tirupati
4. Junior Chamber International (JCI) – Outstanding Young Persons (OYP) of India Award (Trophy)-1998
5. Dr. Ramesh Gulrajani Memorial Award-2006 for Outstanding Research in Electrophysiology by the
6. International Society for Bioelectromagnetism, Minneapolis, MN, USA
7. International Academic Leader Award 2020-21, International Institute of Organized Research
8. National Award "Elite Teacher" (Teachers Day) 2021, International Institute of Organized Research
9. Indo-Asian Education Excellence Award-2022, Red Talks International (RPMR&E Society)
10. INSO International Scientist Awards-2022, INSO.
11. Global Education Award-2022 by Kiteskraft Productions.
12. Asian Education Leadership Award-2023 by Hypedge India
13. CV Ramen Prize-2023 by the Institute of Researchers
14. APJ Abdul Kalam Award-2024 by the Association of Researchers and Academicians, India
15. International Tagore Award-2024 by the Dawn Research and Development Council (On occasion of 163rd birth anniversary of Gurudev Shri Rabindra Nath Tagore)
16. Rabindra Nath Tagore Global Peace Award-2024 by European Council of Research and Development
17. International Global Award-2024 for book "3D printing Technology in Nanomedicine" by Om Gagangiri World Foundation
18. Indian Icon Research and Academic Excellence Award-2024 by the Indian Icon
19. Distinguished Researcher Award-2024 by Scientific Laurels

Patent Published

1. **Title of Invention:** Electrical biosensor for early detection of graft compatibility in plants
   Inventors:
   1. Rajiv Dutta
   2. Ashok Kumar Mishra

   Application No. : 706/DEL/2009, C.B. R. No. 2636.
   Patent # 31481 (The Patent Office Journal October 2010 page # 126) "Electrical Biosensor for Early Detection of Graft Compatibility in Plants" with International Classification G01N27/00.

2. **Title of the Invention:** A formulation for Treating Abscess and Method for Preparation thereof
   Inventors:
   1. Sarita Devi
   2. Sachin Kumar
   3. Prof. (Dr.) Ranjit Singh
   4. Prof. (Dr.) Divya Prakash
   5. Prof.(Dr.) Rajiv Dutta
   6. Dr. Niladry Ghosh

   Application No. : 202211057716A **Date:** October 10, 2022
   Publication Date: January 26, 2024

Patent Ready for Filing

The research shows that peptide GsMTx4 isolated from venom from spider *Grammostola*, has unique quality to stop pollen tube growth instantly at certain concentration and condition. This technology be may be used for breeding purpose as an alternative to emasculation of anthers.