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Designation	Professor					
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EDUCATIONAL QUALIFICATIONS

Degree	Institution	Year
PDF	National Institute of Immunology	1994-1997
Ph D	Magadh University	1988
PG	University of Delhi	1982
UG	University of Delhi	1980

CAREER PROFILE

Scientist	Department of Chemistry	2002-2003	Univ. of Delhi
Sr. Scientist	School of Pharmacy	1998-2000	Univ. of Manchester, UK
Consultant	National Institute of Immunology	1997-1998	New Delhi

ADMINISTRATIVE ASSIGNMENTS

- College Representative Member of the **Doctoral Research Commttee** of Zoology in DU (2020-2022)
- Program Co-ordinator, DBT Star College Scheme (2019-2022)
- Nodal Officer, Science Setu, DBT, NII, THSTI (2020-2022)
- Teacher-in-charge: 2009-2011, 2016-2018
- Convener: Eco-Club, 2016-2018
- Convener: Research & Innovation projects, 2014-2016
- Convener: Research Development Committee, 2015-1017
- Convener: Vision 2025 Research and Innovation, 2015-2017
- Member, IQAC 2015-2018
- Member, Discipline committee for Anti-Ragging, 2015-2017
- Member, Squad Proctor Committee, 2016
- Sports committee Chess 2014-2016
- Member, Spicmacay, 2010-2012
- Staff Advisor for Zoology Society, 2010, 2013, 2016, 2019
- Convenor, Life Sciences, 2018
- Chairperson, Expert Advisory Committee for Nanotechnology Dictionary, 2012 -2019
- Member of **Committee of Courses** for undergraduate teachers of Zoology in DU (2016-2020)
- Member, Curriculum Committee for FYUP, CBCS and LOCF. (2014, 2016, 2019)
- College Representative Member of the **Doctoral Research Commttee** of Zoology in DU (2018-2020)

- Designed the curriculum M.Tech (Nanoscience and Nanotechnology) classes for 3rd Sem (Paper 304: Introduction to Biology) and 5th Sem (Paper 502: Advanced Nano Biotechnology including nanomedicine and nanodiagnostics) were also taught at Nanobiotech Lab, Kirori Mal College from 2011-2017.
- **Coordinator/Convener:** DST-INSPIRE; 2013, 2015
- **Nodal Officer** DBT-Science Setu at KMC, DU, 2014-2020

AREAS OF INTEREST / SPECIALIZATION

Basic Research: Tumour Biology, Type I Diabetes, Rheumatoid arthritis-Immunology, Toxicology

Applied Research: Nanomedicine, Nanobiotechnology, Drug Delivery

Research in the lab includes ‘*Developing Novel Polymer Therapeutics as Nano-medicines*’, making *in-vivo* models for quantifying nanoparticulate drug delivery for cancer, Rheumatoid arthritis and Diabetes, developing rationale designs, based on whole body and cellular pharmacokinetics-pharmacodynamic profile of drugs.

We are actively involved in developing a novel concept to exploit the colloidal self-assembly complexations’ for possible applications as pesticide carrier vehicles, and to use Novel Strategies involving Nanomaterials/Nanocomposites and Biosorption for Removal of toxic metals from water.

Our lab has a CPCSEA registered Animal Holding facility since 2011. We use *in vivo* models for **noninvasive or minimally invasive intravital microscopy** techniques that provide insight into the microscopic kinetics of drug/gene delivery. An advanced Animal Cell culture lab where students can get hands-on experience in doing experiments cancer cells and in setting up the ‘**Dorsal Skin-fold Window Chamber**’ on mice (syngenic and nude) for **non-invasive fluorescence microscopic** studies.

SUBJECTS TAUGHT

Physiology; Immunology; Biotechnology; Biochemistry, Nanobiotechnology

PATENTS

Patents

(1) Upadhyay S.N, Vishwakarma R.A, Ghosal S, Shukla S, Bose C and **Kamra, A** (1999)

Process of isolation and synthesis of 1-(3,4-methylenedioxy-phenyl)-1E-tetradecene and its analogues and a method for activation of effector mechanisms of the immune system against tumours/and or infections using formulations containing these compounds (US Patent allowed on application # 08/865,152).

(2) Ram A. Vishwakarma, Shabri Ghosal, Supriya Shukla, S.N. Upadhyay, Chhanda Bose, **Anita Kamra**, & Suman Dhawan, **Process for the isolation of an immunomodulatory compound NII-30, capable of activating the immune system, Chemical synthesis of the said product and its use in prevention/treatment of cancer. (Patent No.: 172Del'97. Dated: 22 Jan. '97)**

PUBLICATION PROFILE

1. D Mittal, L Biswas, AK Verma (2021) Redox resetting of cisplatin-resistant ovarian cancer cells by cisplatin-encapsulated nanostructured lipid carriers; **Nanomedicine**,16,(12), 979-995, **(IF: 5.307)** ISSN (print): 1743-5889 |ISSN (online): 1748-6963; <https://doi.org/10.2217/nnm-2020-0400>.
2. Moditma, Priyanka Singh, Raksha Sharma, Anita K Verma & S Annapoorni (2021) FeCo nanoparticles as antibacterial agents with improved response in magnetic field: an insight into the associated toxicity mechanism; **Nanotechnology 32 (33) 5101-5012, (IF:3.804)**; ISSN.0957-4484. Online ISSN: 1361-6528
3. P. Gupta, Verma, A.K. & Chaudhuri Chattopadhyay P (2021) Investigating the Chaperoning Effect of Nanoparticles in Chemically Denatured zDHFR: An *in vitro* Study; **Asian journal of Chemistry**, 33(8) 1929-1934, **(IF:1.54)** ISSN 9707077
4. Lamichhane, N, Sharma S, Parul, Anita K Verma, Roy I and Tapas Sen (2021) Iron Oxide-Base Magneto-Optical Nanocomposites for *in vivo* Biomedical Applications; **Biomedicines**,2021, 9(3) 288; **(IF: 4.757)** ISSN 22279059, <https://doi.org/10.3390/biomedicines9030288>

5. M Yadav, K Niveria , T Sen, I Roy & A K Verma (2021) Targeting nonapoptotic pathways with functionalized nanoparticles for cancer therapy: current and future perspectives; *Nanomedicine* 16(12); (IF: 5.307) **ISSN** (print): 1743-5889 | **ISSN** (online): 1748-6963
6. Moin, I, Biswas, L. Md Zafaryab, Namrata, Leekha, A, Mittal, D, A.K. Verma (2021) *In vitro* Toxicity and Genomics of Etoposide Loaded Gelatin Nanoparticles and Its *in-vivo* Therapeutic Potential: Pharmacokinetics, Biodistribution and Tumor Regression in Ehrlich Ascites Carcinoma (EAC) Mouse Model; *Frontiers in Nanotechnology*; 11, (3); (IF: 2.673) **ISSN** 2673-3013 (Online) <https://doi.org/10.3389/fnano.2021.624083>
7. N. Ranjan, R. Singh, I.P.S. Ahuja, R. Kumar, D. Singh, Anita K. Verma, D. Mittal (2021) 3D printed scaffolds for tissue engineering applications: Mechanical, morphological, thermal, in-vitro and in-vivo investigations; *CIRP Journal of Manufacturing Science and Technology*, Vol 32, Jan 2021, 205-214 (IF: 4.71) **ISSN**: 17555817, 18780016.
8. K Dangi, Kapinder, AK Verma (2021) Efficient & eco-friendly smart nano-pesticides: Emerging prospects for agriculture; *Materials Today: Proceedings*; (IF: 1.24) **ISSN**: 22147853,
9. R. Kathpalia & A. K. Verma (2021) Bioinspired nanoparticles for Artificial photosynthesis; *Materials Today: Proceedings*, 3825-3832; (IF: 1.24) **ISSN**: 22147853, doi:10.1016/J.MATPR.2021.03.214
10. Kapinder , Kriti Bhardwaj , Anita Kamra Verma (2021) Corona Outbreak: Is it Nature's wake-up Call? *Int J Appl Biol Pharm* 2021; 12 (1): 301-321.(IF: 3.00) **ISSN**: 0976-4550
11. R. Kumar, N. Yadav, A. Leekha, R. Bawa, P. Gahlyan, M. Bhandari, R. Arora, Anita K. Verma, I. Kakkar (2021) Novel 1-Triazolylpyranopyrazoles as Highly Potent Anticancer Agents Obtained *via* MW-Assisted Synthesis; *Chemistry Select*; Vol 6, (4), 2021, 589-594; (IF: 2.10) **ISSN**: 2365-6549.
12. R. Setia & Anita K Verma (2021) Review of Coveralls, Gowns, and their Use as Part of Personal Protective Equipment (PPE KIT) for Effective Protection of Healthcare Workers in India in COVID-19; *Integrative Journal of Medical Sciences*, Vol 8, 1-10; **ISSN**: 2658-8218
13. S. Pandey, N. Rai, A. Mahtab, D. Mittal, F.J. Ahmad, N. Sandal, Y R Neupane, Anita K Verma, Talegaonkar (2021) Hyaluronate-functionalized hydroxyapatite nanoparticles laden with methotrexate and teriflunomide for the treatment of rheumatoid arthritis; *International Journal of Biological Macromolecules*; Vol 171, Feb 2021, Pg 502-513 (IF: 6.953) **ISSN**: 0141-8130 (print); 1877-0003 (web)
14. P. Gupta, R. Verma, Anita K. Verma, Pratima C. Chattopadhyay (2020) A versatile tool in controlling aggregation and Ag nanoparticles assisted in vitro folding of thermally denatured α DHFI; *Biochemistry and Biophysics Reports*, Vol 24, Dec 2020, 100856; (IF: 2.61) **ISSN**: 24055808
15. Anita Kamra Verma (2020) Nano-theragnostic Approach to Mitigate Covid-19; *J Nanomaterials*, Vol 11(5), 545-550. **ISSN**: 2157-7439
16. R.P. Pandey, S. Kumar, S. Ahmad, A. Vibhuti, V.S.Raj, Anita K. Verma, P Sharma, E. Leal (2020) U Chou's 5-steps rule to evaluate protective efficacy induced by antigenic proteins of Mycobacterium tuberculosis encapsulated in chitosan nanoparticles (2020); *Life Sciences*; 11796; (IF: 5.03) **ISSN**: 0024-3205 (print); 1879-0631 (web)
17. Vijay Kumar, Ankita Leekha, Ankur Kaul Anil Kumar Mishra & Anita Kamra Verma (2020) Role of folic acid-conjugated glycol-chitosan nanoparticles in modulating the activated macrophages to ameliorate inflammatory arthritis: *in vitro* and *in vivo* activities; *Drug Deliv. and Trans Res.* 10, 1057–1075 (2020). <https://doi.org/10.1007/s13346-020-00765-w>; (IF: 4.07) **ISSN**: 2190-393X (Print) 2190-3948 (Electronic)
18. L. Siddiqui, J. Bag, D. Mittal, Seetha, A Leekha, Mishra H, Mishra M, P K. Mishra A. K. Verma, Ekielskie, Iqbal Z & S Talegaonkar (2020) Assessing the potential of lignin nanoparticles as drug carrier: Synthesis, cytotoxicity and genotoxicity studies; *International Journal of Biological Macromolecules*, Vol 152, 786-802. **ISSN**: 2523-3963 (print), 2523-3971 (online)
19. N. Ranjan, Rupinder Singh, I. P. S. Ahuja, R. Kumar, J. P. Singh, A. Leekha, Anita K. Verma (2021) On 3D printed scaffolds for orthopedic tissue engineering applications; *SN Applied Sciences*; 2:192
20. Leekha, V, Kumar, I. Moin, B.S. Gurjar, Anita Kamra Verma* (2019) Modulation of Oxidative Stress by Doxorubicin Loaded Chitosan Nanoparticles, *Journal of Cancer Research and Practice*, 6, (2), 77-84. (IF: 2.34) **ISSN**: 2694-4065
21. Pandey, S., Mahtab, A., Kumar, V., Ahmad, F. J., Verma, A. K., & Talegaonkar, S. (2019). Design and Development of Bioinspired Calcium phosphate nanoparticles of MTX: Pharmacodynamic and Pharmacokinetic evaluation. *Drug Development and Industrial Pharmacy*, 45, (7); 1181-1197. (IF:2.365) **ISSN**: 0363-9045(print) 1520-5762 (web)

22. A Mahtab, M Rizwanullah, S Pandey, A Leekha, SA Rabbani, **AK Verma**, Mohd Aqil, S.Talegaonkar (2019) Quality by design driven development and optimization of teriflunomide loaded nanoliposome for treatment of rheumatoid arthritis: An *in vitro* and *in vivo* assessments; Journal of Drug Delivery Science and Technology, Vol 51, 383-396. (IF:3.981) ISSN 1773-2247.
23. Sharma, S, Mittal, D, **Verma, A.K.**, & Roy, I.(2019).Copper-Gallic Acid Nanoscale Metal–Organic Framework for Combined Drug Delivery and Photodynamic Therapy. ACS Applied Bio Materials, 2(5) 2092-2101(IF-3.25) ISSN:2576 6422
24. L. M. Negi, S. Talegaonkar, M. Jaggi, **Anita K Verma** (2019) Hyaluronated imatinib liposomes with hybrid approach to target CD44 and Pgp overexpressing MDR cancer: an *in-vitro*, *in-vivo* and mechanistic investigation; Journal of drug targeting, 27(2):183-197. DOI: 10.1080/1061186X.2018.1497039; (IF: 3.380) ISSN: 1061-186X (print); 1029-2330 (web).
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26. I Moin, L Biswas, D Mittal, A Leekha, N Kumari, **Anita K Verma** (2018) Crosstalk of ER Stress, Mitochondrial Membrane Potential and ROS Determines Cell Death Mechanisms Induced by Etoposide Loaded Gelatin Nanoparticles in MCF-7 Breast Cancer Cells; Journal of Nanomedicine and Nanotechnology, 9(4). ISSN: 2157-7439
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28. L. M. Negi, S. Talegaonkar, M. Jaggi, **Anita K Verma** (2018) Hyaluronated imatinib liposomes with hybrid approach to target CD44 and Pgp overexpressing MDR cancer: an *in-vitro*, *in-vivo* and mechanistic investigation; Journal of Drug Targeting, 1-10; (IF: 3.380) ISSN: 1061-186X (print); 1029-2330 (web)
29. **Anita K. Verma***, A. Leekha, V. Kumar, I. Moin and S. Kumar (2018) Biodistribution and In-vivo Efficacy of Doxorubicin Loaded Chitosan Nanoparticles in Ehrlich Ascites Carcinoma (EAC) Bearing Balb/c Mice; J Nanomed Nanotechnol; 1000510, 9 (4), 1-6; DOI: 10.4172/2157-7439.1000510; ISSN: 2157-7439
30. J Singh, R Singh, H Singh, **Anita K Verma** (2018) Investigations for mechanical properties and biocompatibility of SS-316L implant prepared as rapid investment casting for batch production; Sādhanā 43 (5), 76. (IF: 1.271) ISSN: 0256-2499 (print); eISSN 0973-7677 (online)
31. B.S. Gurjar, T M Sriharsha, A. Bhasym, S Prabhu, M Puraswani, P Khandelwal, H. Saini, S. Saini, **Anita K. Verma**, P. Chatterjee, P. Guchhait, V. Bal, A. George, Satyajit Rath, A. Sahu, A. Sharma, P. Hari, A. Sinha, A. Bagga (2018) Characterization of genetic predisposition and autoantibody profile in atypical haemolytic–uraemic syndrome; Immunology; 154, 663–672. (IF: 7.397) ISSN:1365-2567 Online ISSN: 1365-2567
32. Daljinder Singh, R. Singh, K.S. Boparai, I. Farina, **Anita K. Verma** (2018) *In-vitro* studies of SS 316 L biomedical implants prepared by FDM, vapor smoothing and investment casting; Composites Part B: Engineering, Volume 132, Pg 107-114. (IF 9.078); ISSN: 1359-8368
33. D. Vohora, A. Kalam, A. Leekha, S. Talegaonkar, **Anita K. Verma** (2018) Combined Raloxifene and Letrozole for Breast Cancer Patients; Archives of medical research; Vol 48, Issue 6, Pg 561-565.(IF 2.235); ISSN: 1884409
34. Kapinder, Disha Mittal, **Anita K. Verma** (2017) Exploiting the Potential of Nanotechnological Applications in Rural Areas to Effectively Eliminate Pollutants from Water Bodies, Vol 11, JPR solutions; Issue 8, Pg 943-950; ISSN NO: 0974-6943
35. V Kumar, A Leekha, A Tyagi, A Kaul, AK Mishra, **Anita K. Verma** (2017) Preparation and evaluation of biopolymeric nanoparticles as drug delivery system in effective treatment of rheumatoid arthritis; Pharmaceutical research 34 (3), 654-667 (IF 4.469); ISSN 0724-8741 (print) 1573-904X (web)
36. Sreenu Bhanoth, A. Kshirsagar, P.K Khanna, A. Tyagi, A Leekha, V. Kumar, **Anita K. Verma** (2017) Synthesis, characterization and bio-evaluation of core-shell QDs with ZnSe, CdS and CdSe combinations; Adv. Mater. Lett. 2016, 7(12), 100-150. ISSN 09763961, 0976397X(Online)

37. S Bhanoth, A Tyagi, **Anita K. Verma**, PK Khanna (2017): Cytotoxicity studies of II-VI semiconductor quantum dots on various cancer cell lines; *Advanced Materials Letters* 2017, 8(4), 368-376 ISSN 09763961, 0976397X(Online)
38. AK Verma, A Leekha (2016) Elucidation of Glutathione-S-transferase Activity Induced by Pectin-Cisplatin Nano-conjugates for Optimization of New Therapeutic Strategies; ISSN:2157-739
39. A Leekha, BS Gurjar, A Tyagi, MA Rizvi, **Anita K. Verma** (2016) Vitamin C in synergism with cisplatin induces cell death in cervical cancer cells through altered redox cycling and p53 upregulation; *Journal of cancer research and clinical oncology* 142 (12), 2503-2514 (IF:4.533) ISSN 0171-5216 (print), 1432-1335 (online)
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44. A Tyagi, K Rawat, **Anita K Verma**, HB Bohidar (2016) Mechanistic evaluation of the size dependent anti-microbial activity of water soluble QDs; *Anal. Methods*, 2016, **8**, 1060-1068; IF:2.896; DOI <https://doi.org/10.1039/C5AY02742J>; ISSN 1759-9679
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Conference / Workshops/Training Organized

S. No.	Date	Activities Organized as Program Co-ordinator under DBT Star College Scheme
1.	3 Jun 2019	Hands-on-Workshop on “Basic Laboratory Techniques” for the Laboratory Staff of Department of Zoology.
2.	18-19 Jun 2019	Two-day Workshop on “MS Office” for Lab Staff of Department of Botany, Chemistry, Physics and Zoology was organized in Computer Lab
3.	26 Jun 2019	Workshop on “Basic Lab Instrumentation for UG Chemistry Lab” for Lab Staff of Department of Chemistry in Chemistry Lab
4.	24 Jun-5 Jul 2019	Two- week Summer Training on “Basic Biochemical and Microbial techniques” for students was organized by Department of Botany
5.	12 Jul 2019	One day workshop for non-teaching staff on “Basic lab techniques”
6.	29 Jul 2019	"DBT-BIRAC Leadership Dialogue Series in partnership with AIIMS
7.	30 Aug 2019	Field visit and presentation on Mushroom Cultivation
8.	13 Sep 2019	Outreach Activity by Dr Anita K.Verma at Institute of Home Economics,
9.	19-20Sep 2019	Workshop on “DNA Barcoding and Metagenomics”by Botany Department
10.	24 Sep 2019	Visit to EMDL, Department of Physics & Astrophysics, Delhi University
11.	24 Sep 2019	Outreach Activity of Botany Coordinator to Shivaji College
12.	30 Sep 2019	Inaugural Lecture series was organized by Department of Chemistry
13.	30 Sep 2019	Mushroom cultivation Facility established
14.	4 Oct 2019	Workshop on “Use of Animals in Research & Education-a necessity? organized by Department of Zoology
15.	19-22Oct 2019	Lecture Series on Quantum Mechanics by Department of Physics
16.	14 Oct 2019	Talk on Basic Astronomy by Department of Physics
17.	14 Oct 2019	Skywatch Event by Department of Physics
18.	11 Nov 2019	Road Show at NII was attended by 10 students of Department of Zoology as a pre-event to Global Bio-India Summit
19.	21-23 Nov 2019	Global Bio-India Summit 2019 at Aero-city, New Delhi. attended by Faculty and 20 students. Registrations were waived off by DBT
20.	19-21 Dec 2019	“National Conference on Nano/Bio-Technology (NCNB-2019)” attended by Faculty and 20 students. Registrations were waived off by DBT
21.	6-7 Jan 2020	National Seminar on “Protecting & Assessing the Innovative Ecosystem” at the Academic Auditorium, K.M. College
22.	8 Jan 2020	DBT-BIRAC Leadership Dialogue at NII attended by students of Zoology department
23.	10 Jan 2020	National Conference on Emerging Trends and Future Challenges in Chemical Sciences (ETFC-2020) organized by Department of Chemistry under the aegis of DBT Star college scheme
24.	10 Jan 2020	Hands on training on Oyster Mushroom cultivation by Botany Department
25.	24 Jan 2020	Seminar-Cum-Workshop was organized by Department of Physics on “How To Use Digital Storage Oscilloscope?”
26.	30 Jan 2020	“Opportunities in ornamental fish culture; aquarium set-up & feed preparation” by Department of Zoology where students from five colleges attended the workshop
27.	24-25Feb 2020	Two-day Annual Festival ‘BIOGALA-2020’ of B.Sc. (Life Sciences)
28.	27 Feb 2020	One-day workshop on “Basic Techniques in Animal Cell Culture” by Department of Zoology.
29.	27 Feb 2020	National Science Day Celebrations at Department of Zoology, K.M. College.
30.	28 Feb 2020	Industrial Visit to Sun Pharma, Research and Development Centre, Gurgaon by students of Department of Chemistry

31.	28 Feb 2020	अरोहण Regional Centre for Biotechnology Open Day: Outreach Program on National Science Day
32.	28 Feb 2020	Visit to National Science Centre by students of Department of Physics
33.	29 Feb 2020	Workshop On “Computational Chemistry & Molecular Modelling in Drug Design”
34.	5 Mar 2020	Microbial Culture Room was created by Department of Botany and Zoology
35.	19-20May 2020	Two-day Online Hands-on Workshop on “Computational Chemistry and Molecular Modelling in Drug Design”
36.	22 Aug 2020	Webinar on “Colors of Nature” by Department of Botany
37.	3 Sep 2020	“Diagnostic & Therapeutic Approaches to Covid-19” organized by Department of Zoology
38.	4 th Sep 2020	“Machine Learning and Data Science for Biologist” organized by Department of Botany
39.	16 Sep 2020	Department of Chemistry organized a “Two-day Online Hands-on Workshop on “Computational Chemistry and Molecular Modelling in Drug Design”
40.	14-18 Oct 2020	Interdisciplinary Activity: “Innovation in Scientific Research Methods”
41.	5-6 Nov, 2020	2-days Workshop for students on “Carbon Sequestration & Solid Waste Management-A Perspective” was conducted by Department of Botany
42.	5-7Nov 2020 13 Nov 2020 19-20 Nov 2020 23 Nov 2020	Department of Physics organized a seven-day workshop for students on “Scientific and physical computing of the experiments with Python ”
43.	9-11 Nov 2020	Interdisciplinary Activity: A 3-Day Science Webinar was jointly organized by Kirori Mal College, The Academy Trust and Indian Academy
44.	26 Nov 2020	Webinar on “Development and Use of Molecular Markers for Crop Improvement” was conducted by Department of Zoology
45.	30 Nov 2020	Department of Botany organized an “Online Interactive Session” with Mr. Ankit Kumar, Indian Forest Officer
46.	16-17 Jan2021	Oral presentation by faculty member of the Department of Botany on two days national e-conference on “Plant Science Research: Relevance, funding, challenges and opportunities”
47.	15-16 Feb 2021	Outreach program by Department of Botany at Shaheed Raj guru college of applied science for women.
48.	19 Mar 2021	Outreach program “Interdisciplinary Science Workshop” for Maharaja Agrasen Public School, New Delhi.
49.	16 April 2021	A webinar on “Employment and Entrepreneurship in field of mushroom” was organised by Department of Botany.
50.	22 April 2021	To mark the “Save Earth Day”, Department of Botany & Zoology organized a Poster making Competition on “ Impact of Covid on Environment ”, Minute Mania – a showcase of talent! on “ My Earth My Responsibility ” followed by Quiz competition.
51.	29 April 2021	To celebrate the “International Immunology Day”, Department of Zoology organized a webinar on “Understanding Immunology to combat Covid-19: Myths & facts regarding Evolution, Spread and Vaccines”
52.	28 th June - 2 nd July	Organized FDP on “Environment Audit”

CREATION OF ICT MEDIATED TEACHING LEARNING PEDAGOGY AND CONTENT

1. Immunological method-I & II; (<https://www.youtube.com/watch?v=byikcK542EE>)
2. Immunological tolerance (<https://www.youtube.com/watch?v=YuGomQlJ-9M>)
3. Tumor Immunology (<https://www.youtube.com/watch?v=-bXcy5f1hPs>)
4. Major Histocompatibility and Complex (<https://www.youtube.com/watch?v=yRH-RMz54wY&t=19s>)
5. Immunodeficiency <https://www.youtube.com/watch?v=NYi1h57Am00&t=3s>)
6. Regulation of Immune responses (<https://www.youtube.com/watch?v=4KyRAUpJfkQ&t=450s>)
7. Transplantation and Rejection <https://www.youtube.com/watch?v=6avFCsTTEXA>)
8. Antigen Processing & Presentation (<https://www.youtube.com/watch?v=e9qYIjI9Evw&t=2s>)
9. Cytokines (<https://www.youtube.com/watch?v=x0pLRtHIAU0&t=108s>)
10. Evolution of Immunity (<https://www.youtube.com/watch?v=x0pLRtHIAU0&t=108s>)

CONFERENCE/WORKSHOPS/TRAINING ATTENDED AS FACULTY MEMBER

1. **DST-ACS workshop** on Oct 30, 2020 organized by American Chemical Society.
2. Professional Development in **Engineering the future of Medicine**; Aug, 6, 2020 organized by The National Academy of Sciences, India (NASI-Delhi Chapter & MHRD-Institution Innovation Council, DDUC, University of Delhi)
3. Continuing Education Certificate: **FDA Grand Rounds: Nanotechnology: Over a Decade of Progress and Innovation at FDA** on August 13, 2020;
4. **"Finding Needles in a Haystack-Liquid biopsy for nucleic acid and protein molecular biomarker for disease diagnosis"** speaker Prof. Brian. T. Cunningham, University of Illinois; organized by The National Academy of Sciences, India (NASI-Delhi Chapter & MHRD-Institution Innovation Council, DDUC, University of Delhi on June 2, 2020.
1. **"SPARC-Indo-US Immunology Workshop"** held on June 12 & 13, 2020 jointly organized by IIT, Ropar and George Washington University, USA.
2. **"Printed and Flexible Electronics and Devices"** on June 24, 2020 organized by The National Academy of Sciences, India (NASI-Delhi Chapter & MHRD-Institution Innovation Council, DDUC, University of Delhi.
3. Participated in Wiley Author Webinar Series **"Learn to Publish"** held in June-July 2020
4. **"Meet the Editor Online: RSC Advances"** Scientific session by Prof Kaushik Chatterjee - Materials for Engineering Diseased Tissue Models, and Publishing by Dr Laura Fisher - Open Access publishing: the RSC Advances story on Sep 15, 2020
5. Science Academy online Lecture Workshop on **"Frontiers in Science & Engineering: Opportunities for Graduates"** Sep 14 -19, 2020 organized by Science Foundation & MHRD-Institution Innovation Council, DDUC, University of Delhi.
- 6.

INVITED LECTURES/RESOURCE PERSONS

2. "Use of Nanoparticles in Biomedical Research" Invited Lecture in the online workshop series on "Molecular Biology Tools" by Miranda house, 17th April 2021
3. Invited speaker on "Research Design" in the "Six Day Online workshop on "Fundamentals of Research Methodology for Science and Allied subjects" on Aug 27, 2020 organized by A. N. College, Patna
4. "Nanogenetics: Nanodelivery systems for CRISPR/Cas genome" Invited Speaker in "Two-Day virtual National Seminar on Genetics -New Challenges" 20th & 21st July, 2021 Organized by Department of Zoology in association with IQAC
5. Therapeutic potential of oral resveratrol chitosan drug delivery system in VCD induced osteoporotic mice model by activation of SIRT1 (2020); Invited talk on 2nd International Symposium on "Functional Nanomaterials in Industrial and Clinical Applications: Academy – Industry- Clinician Meet" 14-16th July 2020
6. "Enhanced Drug Adsorption and Anti-microbial Activity of Functionalized Multiwalled carbon nanotubes", A Virtual, 2nd International Symposium on Functional Nanomaterials in Industrial and Clinical Applications: Academy- Industry- Clinician Meet, 14th - 16th July, 2020, University of Central Lancashire, UK, Lecture, Megha Saxena, Disha Mittal, Richa, Kapinder, Anita K Verma and Reena Saxena

7. "Antibacterial properties of highly magnetic monodispersed FeCo Nanoparticles, Moditma, Priyanka Singh, Raksha Sharma, A. K. Verma and S. Annapoorni in 2nd International Symposium (via virtual Platform): Functional Nanomaterials for Industrial applications, Academy-Industry-Clinicians Meet from 14th to 16th July 2020.
8. "Lysophosphatidic acid (LPA) as a potential biomarker to envisage cardiovascular disease (CVD) in Rheumatoid arthritis patients" Vikas Shukla & Anita K Verma in 2nd International Symposium (via virtual Platform): Functional Nanomaterials for Industrial applications, Academy-Industry-Clinicians Meet from 14th to 16th July 2020.
9. "Stealth lipid polymer hybrid nanoparticles encapsulated with paclitaxel for effective brain delivery"; Monika Yadav & Anita K Verma in 2nd International Symposium (via virtual Platform): Functional Nanomaterials for Industrial applications, Academy-Industry-Clinicians Meet from 14th to 16th July 2020.
10. "Redox-activated targeted mesoporous silica nanoparticles (MSN)-based nano-delivery platform for co-delivery of doxorubicin (NH₂MSN-DOX-CpG/FA) against Lung cancer"; Karishma & Anita K Verma in 2nd International Symposium (via virtual Platform): Functional Nanomaterials for Industrial applications, Academy-Industry-Clinicians Meet from 14th to 16th July 2020.
11. "Mangiferin mediated Nano-therapeutic efficacy for chronic wound treatment through magnetic or photodynamic effect"; Priyanka Singh & Anita K Verma in 2nd International Symposium (via virtual Platform): Functional Nanomaterials for Industrial applications, Academy-Industry-Clinicians Meet on 14th July 2020
12. "Cisplatin encapsulated Nanostructured-Lipid Carriers (CisNLC) induced sensitization of Cis-resistant ovarian cancer cells & elucidating the interlink between reactive oxygen species, glutathione and ATP7B: an in vitro study" D. Mittal, L Biswas, Anita K. Verma in 2nd International Symposium (via virtual Platform): Functional Nanomaterials for Industrial applications, Academy-Industry-Clinicians Meet on 14th July 2020
13. "Nanotechnology solutions to Covid-19" was delivered by Dr. Anita K Verma, Program Coordinator, DBT Star College Scheme, KM College for Department of Biochemistry, Institute of Home Economics on 1st May 2020.
14. Harnessing inflammatory arthritis by pH-responsive glycol chitosan nanoparticles: in vitro and in vivo activities [2019] Anita K. Verma*; Invited speaker at Global Bio India, NANOBIOTECK- 2019, 4th Annual Conference of ISNM 21st-23rd November 2019, Aerocity, New Delhi,
15. Crosstalk of ER stress, Mitochondrial Membrane potential and ROS determines cell death mechanisms induced by Etoposide loaded Gelatin nanoparticles in MCF-7 breast cancer cells [2019] Anita K. Verma*, Invited speaker at the National Conference on Nano/Bio- Technology, 19th -21st December 2019, Convention Center, JNU, New Delhi.
16. "Overcoming drug resistance in ovarian cancer via modulating drug-efflux and mitochondrial targeting by Cisplatin loaded Nanostructured Lipid Carriers" [2019] Disha Mittal, L. Biswas. Anita K. Verma* National Conference on Nano/Bio-Technology (19-21, Dec 2019)
17. Reactive oxygen species-mediated mitochondrial pathway is involved in core shell quantum dots induced apoptosis in hepatocellular carcinoma cells [2019] A.Tyagi, Monika & Anita K. Verma at National Conference on Nano/Bio- Technology 2019, 19th -21st December 2019, Convention Center, JNU, New Delhi-110067
18. Characterization, Antibacterial and Antioxidant activities of Bio-inspired and chemically synthesized gold nanoparticles [2019] Kapil Dangi, P Singh, V. Shukla & Anita K. Verma at National Conference on Nano/Bio- Technology 2019, 19th -21st December 2019, Convention Center, JNU, New Delhi.
19. Novel one-pot but two-step synthesis of modified biofunctionalized gold nanoparticles as siRNA carrier [2019] V. Shukla#, Karishma#, Z. Yab, L. Biswas, Anita K. Verma; Global Bio-India Submit-2019, Nanobioteck-2019 and Nanoforagri-2019 with association of Department of Biotechnology, Govt. of India at Aerocity, New Delhi (21st-23rd November 2019)
20. Invited Talk on "Nanobiotechnology: Drug Delivery to cancer tissue" at Department of Biochemistry, Institute of Home Economics on 13th Sep 2019.
21. "Formulation and Evaluation of Nanostructured Lipid Carriers (NLC) for Cisplatin delivery against Ovarian Cancer" [2019] Disha Mittal, Anita K. Verma; 1st International Conference on Integrative Chemistry, Biology & Translational Medicine (ICBTM) (25th-26thFeb 2019), conference Hall, Univ of Delhi.
22. Antimicrobial and biocompatibility potential of gold-chitosan nanocomposites [2019] V. Shukla, Priyanka Singh, Disha Mittal Anita K. Verma, 1st International Conference on Integrative Chemistry, Biology & Translational Medicine (ICBTM) (25th-26thFeb 2019), Conference Hall, Univ of Delhi.

23. Nanobiotechnology-Drug delivery for Cancer; Invited lecture at Institute of Home Economics, University of Delhi, on 13th Sep 2019.
24. Nanobiotechnology: Invited Lecture for the add-on certificate course on 'Medical Biotechnology' at Miranda house, 11th Sep 2019
25. "Tumour Microenvironment Nanotherapeutics: Where we are, way to go..."; Award Lecture at Dept of Pharmacy and Medicine, University of Central Lancashire (UCLan), Princeton, UK on 4th July 2019.
26. Nanotechnology in Entrepreneurship, invited talk in FDP on Entrepreneurship at ABES Engineering College, Ghaziabad, on 12th Jan 2019
27. Invited Talk in 6th World Conference on Nanomedical Sciences "Multidisciplinary strategies: special reference to Chemistry – Biology Interface" Annual Conference of the International Society for Nanomedical Science (ISNSCON-2018), 7th -9th Jan 2019, Vigyan Bhawan, New Delhi.
28. Nanotechnology Entrepreneurship: A Golden Opportunity, DST sponsored "Faculty Development Programme on Entrepreneurship (in Science, Technology & Management for Society) 21st Dec 2018, jointly organized by Deshbandhu College and ABES Engineering College, Ghaziabad.
29. CD44 Targeted Hydroxyapatite based Nano delivery system for effective management of Rheumatoid arthritis [2018] Sweta Pandey, F.J.Ahmed, Anita K.Verma, S. Talegoankar; 18th World Congress on Basic & Clinical Pharmacology, 1st-6th July 2018, Kyoto, Japan
30. Organizer, BIOMEDCON 2018 National Conference On "Recent Advances In Biomedical Science: Diagnosis & Research" and 4th Annual Scholars' Science meet of SBMLS 28th Dec 2018, Department Of Zoology, Kirori Mal College, University of Delhi, Delhi-110007
31. Invited Speaker at the Conference on "Advances in Biological & Environmental Science for Human Welfare" (ICABERHW-2018) 16-18 November, Department of Zoology, DDU Gorakhpur University, Gorakhpur UP, 273009
32. Evaluating the nanotheranostic potential of pH-responsive folate glycol-chitosan nanoparticles in ameliorating inflammatory arthritis: in vitro and in vivo activities" [2018] V. Kumar, L. Biswas, D. Mittal, A. Leekha, Z. Yab, Anita K Verma, International Conference Nanobiotech-2018, 23-27th Oct 2018, at AIIMS, New Delhi.
33. Invited Speaker in the International Seminar on "Recent Biochemical Approaches in Therapeutics: (RBAT-IV)", held in the Department of Biochemistry, University of Kerala, Jan 23-25, 2018
34. Invited to participate in the "Panel Discussion as Discussant" in International Conference NANOBIOTECK-2017, 6th – 8 th December 2017, at Trivandrum.
35. Interplay of Immune Responses Induced By Biopolymeric Nanoparticles [2016], Anita Kamra Verma; 2nd International Conference on "Recent Advances in Nanoscience & Nanotechnology" ICRANN-2016, 19th-20th Dec 2016, Special Centre for Nanoscience, JNU, New Delhi
36. National conference on Recent Advances in Biomedical Science: Diagnosis & Research BIOMEDCON 2016; 16th Dec 2016 at Gandhi Peace Foundation.
37. Mechanistic aspects, pharmacokinetics & Pharmacodynamics of quantum dots and nanoparticles [2015]. Anita K. Verma, International Seminar on "Recent Biochemical Approaches in Therapeutics: RBAT-II (2015)", 9th-11th Dec 2015.
38. "Applications of Nanobiotechnology in Clinical Diagnostics"[2015] Anita K. Verma. Invited talk at Nano-Biointerface, held in Dec 2015, School of Nanosciences, JNU.
39. Pharmacokinetics & Pharmacodynamics of Qunatum Dots, nanoparticles and nanoconjugates: Mechanistic aspects, Anita K. Verma . Invited to speak at CEP on "Nanotechnology in Health & Medicine" September 9-11, 2015
40. Biototoxicity and Mechanistic studies of Surface Modified CdSe Quantum Dots, [2015] Anita K. Verma, National Conference on Chalcogens[NC3], DIAT Pune
41. Pharmacokinetics & Pharmacodynamics of Qunatum Dots, nanoparticles and nanoconjugates: Mechanistic aspects. Anita K.Verma, Invited speaker, ICRANN 2014, held on 15-16th Dec 2014 at JNU, New Delhi
42. Effect of mass and aspect heterogeneity of chitosan nanoparticles on bacteriocidal activity, A. Agarwal, A. Tyagi, A. Leekha, V. Kumar, and Anita K. Verma. 1st International Conference on emerging trends of Nanotechnology in drug discovery, Dept of Biochemistry, South Campus, Univ. of Delhi, 26th-27th May 2014.
43. To evaluate the in-vitro neoplastic potential of chitosan nanoparticles and release kinetics of biopolymeric nanoparticles against cervical cancer. S. Agarwal, S. Fatima and Anita K Verma, 20th ISCBC Interntaional Conference on Chemistry and medicinal plants in translational medicine for healthcare, Dept of Chemistry, Univ of Delhi, 1st 4th March 2014
44. Biototoxicity of Nanomaterials and Immunomodulation. Anita K.Verma, Nanotechnology Conference: Safety measures and concerns, CFEES, DRDO 20th-23rd Nov 2013

45. Paradoxical effects of Oxidative stress and immune regulation in tuberculosis. Anita K Verma, International Nanomedicine Conference, Sydney, Australia. 1st-3rd July 2013.
46. Protective Efficacy induced by Antigenic Proteins of Mycobacterium tuberculosis encapsulated in biopolymeric nanoparticles in Balb/c mice Infected with M. tb. Ramendra Pati Pandey & Anita Kamra Verma, European Congress of Immunology, Glasgow, Scotland, 6-8th Sep 2012.
47. Nanotechnology-An emerging bastion for Women in Science-Anita Kamra Verma Resource Person in the two day national conference on "Women in Science" on March 14-15, 2012
48. 1st International Conference on Functional Materials for Defense (ICFMD-2012)
49. Polymer drug conjugate therapeutics – the new Paradigm , Anita Kamra Verma Invited talk at the Multi Mega Event of 24th Annual National Conference of Indian Society of Atherosclerosis Research and International CME on Atherosclerosis, 24th-25th Sep 2011, ISARCON 2011, JIPMER, Puducherry (India)
50. Anita Kamra Verma Chaired the session on Biomarkers and Drug Development, 2nd World Congress on Biomarkers-2011, 12-14th Sep 2011, Baltimore, USA
51. Invited Speaker on "Biopolymer nanotherapeutics: : Enabling oncology drug development by nanoconjugates & nanoparticles," Anita K. Verma, 2nd World Congress on Biomarkers-2011, 12-14th Sep 2011, Baltimore, USA
52. Invited speaker in the Center for Regenerative Medicine, University of Tubingen, Germany, Nanomedicines: Smart Liposomal & Biopolymeric Nanoparticles/ Nanoconjugates for Drug Delivery, Anita K. Verma, on 21st June 2011, Germany
53. Immuno-potentiating role of encapsulated proteins of infectious diseases in biopolymeric nanoparticles as a potential delivery system, Anita K. Verma, R. P. Pandey, A. Chanchal, P.Sharma, International Symposium on The Safe Use of Nanomaterials & Workshop on Nanomaterial Safety: Status, Procedures, Policy and Ethical Concerns from February 1-3, 2011, IITR, Lucknow.
54. Resource Person in the National Workshop on "Recent Advances in Bioelectrical Impedance For H Composition & its Clinical Applications" (RABICA-2011), 26- 27 March 2011, held at D. Y. Patil Univer Kolhapur, India
55. Development of chitosan nanocarriers for the intraepithelial delivery of Antigenic Secretory Proteins of Mycobacterium tuberculosis through mucosal surfaces, Anita K Verma, International Symposium on TB Diagnostics: Innovating to Make an Impact. 16th-17th Dec, 2010 International Centre for Genetic Engineering & Biotechnology ICGEB Campus, New Delhi, INDIA
56. Invited Speaker in the "International Conference on Nanotechnology and Medical Sciences: New Interfaces" Anita K. Verma, 21-23 Oct. 2010, D. Y. Patil University, Kolhapur, India.
57. Encapsulation of therapeutic proteins of Mycobacterium tuberculosis in Biopolymeric Nanoparticles for possible aerosol delivery system, Anita K. Verma, R P. Pandey, A Chanchal, I Siddiqui, P Sharma . 14TH International Congress of Immunology, Aug 22-27, 2010, Kansal, Japan,
58. "Pharmacokinetics & in-vivo biodistribution of 99mTc hydrophilic Paclitaxel Loaded Biopolymeric Nanoparticles" has been accepted for presentation as Poster 784 in Poster Session III: Nanomedicines at the 37th Annual Meeting & Exposition of the Controlled Release Society (CRS), July 10 – 14, 2010, at the Oregon Convention Center, Portland, OR, USA
59. Nanomedicines: Smart Liposomal & Biopolymeric Nanoparticles for Drug Delivery to cancer tissue. Anita K. Verma Invited Speaker in "INDO-US Workshop on Nanotechnology: Applications and Implications" during 10-12 November, 2009 at IICT, Hyderabad, India
60. Poster presented in "INDO-US Workshop on Nanotechnology: Applications and Implications" during 10-12 November, 2009 at IICT, Hyderabad.
61. Polymer conjugates: Pharmacokinetics & in-vivo biodistribution of hydrophilic Nano-conjugates, Liposomes & biopolymeric nanoparticles; Anita K. Verma Invited talk in the International Symposium on Nanostructured Materials: Structure, Properties and Applications (ISNM-2009), October 28-29, 2009, Kanya Maha Vidyalaya, Jalandhar.
62. Release Kinetics, and Cellular uptake of hydrophilic polymeric nanospheres prepared by radical crosslinking copolymerization, Anita K. Verma. Invited talk in the International Symposium on Nanostructured Materials: Structure, Properties and Applications (ISNM-2009), October 28-29, 2009, Kanya Maha Vidyalaya, Jalandhar.
63. Pharmacokinetics & in-vivo biodistribution of hydrophilic Nano-conjugates, Anita K. Verma, Invited lecture in the "International Conference on Nanoscience & Nanotechnology" October 15 -16, 2009, AIT, Gurgaon, India
64. Nano-therapeutics: in-vivo biodistribution of 99mTc Labelled- Surface coated Paclitaxel Loaded hydrophilic Biopolymeric Nanoparticles for the treatment of Hepatic cancer. Anita K. Verma .

- International Conference on Radiation Biology & Translational Research in Radiation Biology, 2008, 10-12 Nov, Jaipur, India.
65. Nanomedicine in cancer therapeutics : Pharmacokinetics & in-vivo biodistribution of hydrophilic Drug Loaded Biopolymeric Nanoparticles vs Nano-conjugates. Anita K. Verma. International Conference on Biomedical Engineering & Nanotechnology ICBENT-2008), October 21-23, 2008, Kolhapur, India.
 66. Paclitaxel loaded Stimuli-Responsive biopolymeric Nanogel-particles: Preparation, Drug-Release Behaviors, in-vitro Cellular Interaction and biodistribution in tumor bearing mice model. Anita K. Verma, A. Chanchal, Ajay Kumar & H.B.Bohidar. Indo-Australian Conference on Medical Biotechnology 2008,11-12 Feb, 2008, National Institute of Immunology, New Delhi, India.
 67. Nano-pharmaceuticals: Pharmacokinetics and in vivo Biodistribution of Hydrophilic Paclitaxel Loaded Biopolymeric Nanoparticles, Anita K. Verma, Invited Lecture, International Conference on Nanomaterial Toxicology [ICONOTOX 2008] 5th -6th Feb ITRC, Lucknow.
 68. Nanobiotechnology in India, Anita K. Verma. Expert Group Meeting on Nanotechnology, Sustainability and Developing Economics in the 21st Century, UNIDO Headquarters, Vienna International Centre, Austria, 10-12 December 2007
 69. Polymer Therapeutics: Surface coated gelatin nanospheres for treatment of hepatic Cancer. Anita K. Verma, A. Chanchal, Ajay Vashisht & H.B. Bohidar. Invite Lecture in the 5TH Annual Conference of "BIOTECHNOLOGY SOCIETY OF INDIA" "Biotech 2007" Nov 2007, Lucknow
 70. Long Circulating Drug Polymer nano-conjugates of Cisplatin – Pharmacokinetics, Release kinetics and Cellular uptake. Anita K. Verma, A. Chanchal, K. Sachin & H.B. Bohidar. Oral Presentation ESF-EMBO Symposium: Probing Interactions Between Nanoparticles/Biomaterials and Biological Systems: Alternative Approaches to Bio- and Nano-toxicity. Spain Nov. 2007.
 71. Polymeric Nanosystems for Cancer Therapeutics – Liposomes, nanoparticles and nanoconjugates.(2007) Anita K.Verma, Invited Talk in International Conference on Nanomedicine, Bhubaneshwar, India.
 72. "Novel Nanotherapy: Bioresponsive Polyelectrolyte Complexes Based on Polysaccharide". Anita K. Verma & K. Sachin. Oral Presentation at International Conference on Nanomedicine 2007, at Bhubaneshwar.
 73. Dissolution kinetics of Intramolecular aggregates & Self folded gelatin coacervates entrapping Cycloheximide (CHX), at various pH values. A. Chanchal, H.B.Bohidar , Anita K.Verma, Oral presentation at International Conference of Nanotechnology, ICNT'06, San Francisco, USA- 30th Oct-Nov2, 2006
 74. Influence of physico-chemical variation on the release profile of self-folding pectin cisplatin nano-conjugates. K. Sachin, H. B. Bohidar, Anita K. Verma. Poster presented at Indo-US Symposium on Nanotechnology & Advanced drug delivery. Oct 5-6, 2006.NIPER, Chandigarh.
 75. Release kinetics and cellular uptake of hydrophilic drug polymer nano-conjugate to enhance blood circulating levels of Cisplatin. Anita K. Verma, K. Sachin, A. chanchal, H. B. Bohidar. Oral presentation at International Nanobioscience Conference, Aug,6-8, Pune 2006.
 76. Characterization and Stability Studies on Gelatin Nanoparticles. Poster at Nanoinitiative by DST in March, 2005. K. Sachin, A. Saxena, H .B. Bohidar, A. K. Verma at Pune.
 77. PVP nanocarriers for a hydrophilic drug Richa Tyagi, Anita Kamra Verma and S. Mozumdar. Poster in Asean Biotechnology 2004
 78. Physical characterization and encapsulation of a prodrug of a β -Lactum drug for a possible oral delivery system R. Tyagi, Anita K.Verma, S. Mojumdar Presented a poster in ICONOSAT 2003, Dec 2003, at Kolkata.
 79. Diffusion of macromolecules in gel and living tissue matrix measured by FCS.(2003) S. A. Tatarkova, Anita Kamra Verma, D.A. Berk. International Conference on Advanced Laser Technologies. Oral presentation at Cranfield University, UK in Sep 2003.
 80. A Low Toxic Drug Formulation of 5-FU Derivative in crosslinked polymeric micelles. Anita K. Verma, S. Soni, S. Mazumdar and A.N.Maitra. Paper Presented at Second International Conference on Tumor targeted Drug Delivery systems, held at NIH, Bethesda, Maryland, USA in September 2002
 81. Bioimaging & Optical methods for pharmacokinetic studies. David A. Berk, Sveta Tatarkova, Anita Kamra Verma, Chris Lloyd, Harmesh Aojula. Bioimaging Initiative Grantholders' Workshop 11-13 July, 2000, at Keele University, UK.
 82. Immunotherapeutic Effects of a Glucosylxanthone compound isolated from *Mangifera indica* against Mastocytoma Tumour implant in mice. Anita Kamra, D.N.K. Sarma, Suman Dhawan, Shakti N. Upadhyay. Presented at the INDO-FRENCH SYMPOSIUM on Immunomodulation in December, 1995 NI.I., New Delhi.

RESEARCH PROJECTS (MAJOR GRANTS/RESEARCH COLLABORATION)

Current Grants:

- i) "Folate decorated pH responsive combinatorial nanocarriers mediated co-delivery of dual drugs and siRNAs for reversal of multidrug resistance and synergistic breast cancer therapy: Development and Characterization"; DST-SERB (2021-2024)

Completed Projects

- i) "Small molecule functionalized biopolymeric nanoparticles encapsulating SiRNA for targeted delivery to osteoblasts for managing bone disorders" funded by DBT, Tenure- 2017-2020, Budget-97.86 lakhs.
- ii) "Multifunctional Nanoparticles for Cancer Therapy" funded by UGC-UKIERI (2017-2020).
- iii) To assess the Adsorption Efficiency and Anti-microbial potential of activated Multi-walled Carbon nanotubes for removal of Lead from water samples. Collaborators: Anita Kamra Verma, Reena Saxena, DU. Funded by DU. 2015-16 (5.5 lakhs) [COMPLETED]
- iv) Assessment of humoral immune response against Ebola virus glycol-protein peptide using Balb/c mice as model. Anita Kamra Verma, Ph.D, 2015-16, Funded by DIPAS, DRDO. (9.9 lakhs) [COMPLETED]
- v) Pharmacological evaluations of Sea-buck thorn leaf extract for potential adjuvant activity Anita Kamra Verma, Ph.D, 2014-2015, Funded by DIPAS, DRDO. (9.8 lakhs) [COMPLETED]
- vi) Biopolymeric Nanoparticulate delivery for Rheumatoid Arthritis. Anita Kamra Verma, Ph.D, 2012-15, Funded by UGC. (11.78 lakhs) [COMPLETED]
- vii) Developing Immuno-therapeutic approaches for treatment of Type I diabetes along with replenishing insulin producing stem cells in Balb-c and NOD mice. Funded by DBT (2012-15) (42 lakhs) [COMPLETED] Collaborators: Rajni Rani, Ph.D., NII & Anita Kamra Verma, Ph.D., DU.
- viii) Novel Strategies involving Nanomaterials/Nanocomposites and Biosorption for Removal of toxic metals from water. Anita K. Verma, S. Mohanty, Raksha Sharma, DU, Funded by DU. 2011-12. (10 lakhs)
- ix) To assess the mutagenic potential of some of commonly encountered environmental pollutants and therapeutic agents. Funded by DU. Anita K Verma, M. A Lal, R. Kathpalia DU, (10lakh)
- x) Biopolymeric Stimuli sensitive Nanoparticulate Targeted Drug Delivery for Cancer Therapeutics. Anita Kamra Verma, DU. Funded by ICMR (30lakhs) 2010-13. [COMPLETED]
- xi) Detection of Polymeric nano-particulate drug delivery system for anti-cancer drug by Quantitative Fluorescence Microscopy. Anita Kamra Verma, DU. Funded by DBT. (~80 lakhs) 2008-2013 [COMPLETED]
- xii) Design of Novel polymer based non-viral vector for gene delivery, Anita Kamra Verma, DU, Funded by UGC. [COMPLETED] 2007-2010
- xiii) Encapsulation of Potentially Immunotherapeutic /Immunoprophylactic peptides in novel biocompatible nanosized Carriers for targeted delivery in IDDM- Funded by DBT. Collaborators: Rajni Rani, Ph.D., NII, H.B. Bohidar, Ph.D., JNU, Anita Kamra Verma, Ph.D., DU(Approx 80 lakhs) 2005-2008 [COMPLETED]

AWARDS AND DISTINCTIONS

Awards

- "Teacher Excellence Award for Research and Teaching", by University of Delhi, in July 2021.
- "Distinguished Collaborator award", by Department of Pharmaceutics, University of Lancashire, UCLan, Princeton, UK in July 2019
- Best paper award in 'Rapid Prototyping Journal' in 2016
- Dr APJ Abdul Kalam Lifetime Achievement Award-BIOMEDCON-2018
- Best Researcher Award-2018 in Dr APJ Abdul Kalam Memorial Grace India
- SBMLS Fellow Award for the outstanding contribution in Nanotechnology in BIOMEDCON 2016

Infrastructure Set-Up

1. ANIMAL HOUSE (CPCSEA Registered license no. 1666/GO/Re/S/12/CPCSEA):
For *in-vivo* validation for translational research
2. Set-up well Equipped Laboratories: For *in-vitro* validation
 - i) Animal Tissue Culture Lab,
 - ii) Microbial Testing lab,
 - iii) Nanotechnology Characterization Lab

ASSOCIATION WITH PROFESSIONAL BODIES

Peer review of research grant proposals

- Department of Biotechnology, New Delhi-Task force on NanoBiotechnology/ Nanoparticle mediated Drug / Biomolecule delivery,
- Advisary Project Approval Committee of Dept. of Biodiversity & Biotechnology, Govt of Madhya Pradesh for Biotech Projects.

Peer review of scientific journals

- Nanomedicine:
- Toxicology Reports
- International Journal of Pharmaceutics
- International Research Journal of Biotechnology
- Executive Director, International Journal of Immunology
- Nanoscience and Nanotechnology in Biology and Medicine
 - Journal of Biomaterials and Nanobiotechnology,
 - American Journal of Experimental Biology

Members of Societies

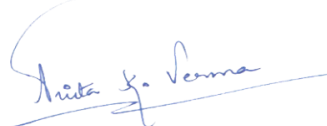
- Zoology Society of India, Life Member
- Biotechnology Society of India, Life Member
- Member of International Association of Nanotechnology, Inc. Membership ID: AM66990908, 2006.
- Indian Nano Science Society
- Indian Immunological Society
- Indian Society of Nanomedicine (ISNM) -Life Member

OTHER ACTIVITIES

- i) Coordinator, DBT Star Scheme for Colleges, March 2019-2022
- ii) Program Coordinator, DST Inspire Science Camp, 21st -25th Dec 2015.
- iii) Program Coordinator, DST Inspire Science Camp, 21st -25th Dec 2013.
- iv) Nodal Officer: Science *Setu*, (2015-2019)
- v) Workshop Co-ordinator, organized workshop for College Teachers
- vi) Entrepreneurship Awareness Camp (EAC Camp) sponsored by DST on 19th -20th April 2019 at K.M College
- vii) Workshop on "Spectroscopic Application in Biology & Environmental Sciences" 15th November 2018, (ICABERHW-2018) at Department Of Zoology, DDU Gorakhpur University, Gorakhpur UP, 273009 in collaboration with Department of Zoology, Kirori Mal College, University of Delhi, Delhi-110007
- viii) Workshop on "Advanced Spectroscopy & Dynamic Light Scattering", 9th October 2018, Department Of Zoology, Kirori Mal College, University of Delhi.
- ix) Workshop in BIOCHEMISTRY in Feb 2015
- x) Workshop in IMMUNOLOGY in Sep 2012

Fellowship/Financial assistance:

1. Nominated Head of the Indian Delegates for An International Program on "Reservation and Exploration of Herbal Medicine Resources for Asian Countries" funded by Ministry of Commerce, People's Republic of China, from August 19, 2015 to September 8, 2015.
2. **Awarded International Travel Grant from UGC** to be an Invited Speaker "Paradoxical effects of Oxidative stress and immune regulation in tuberculosis." **Anita K Verma**, at the International Nanomedicine Conference, Sydney, Australia. 1st-3rd July 2013.
3. Awarded **International Travel Grant (University of Delhi)** as an Invited speaker "**Biopolymer nanotherapeutics: Enabling oncology drug development by nanoconjugates & nanoparticles**" **Anita K. Verma**, 2nd World Congress on Biomarkers-2011, 12-14th Sep 2011, Baltimore, USA
4. **Awarded International Travel Grant from UGC** to speak on "Pharmacokinetics & *in-vivo* biodistribution of 99mTc hydrophilic paclitaxel loaded biopolymeric nanoparticles" at the 37th Annual Meeting & Exposition of the Controlled Release Society (CRS), July 10 - 14, 2010, Portland, OR, USA.



Signature of Faculty Member, Prof. ANITA KAMRA VERMA,