

CURRICULUM VITAE

Dr. Neeraj Dilbaghi

Professor of Bionanotechnology,

Department of Biotechnology,

Dean (Research & Development),

Institutional Coordinator (RUSA),

Director (Horticulture),

Guru Jambheshwar University of Science & Technology,

Hisar-125001, INDIA.

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Specialization: Nanomedicine & Drug Delivery, Nano sensors for Healthcare & Environmental Monitoring, Bionanotechnology, Microbial Biotechnology

Previous Positions Held:

Chairman, Department of Bio & Nano Technology, GJUS&T, Hisar (Sept, 2011 to Sept, 2014 & 26-07-2021 to 20-11-2023)

Director of Sports, GJUS&T, Hisar (15-8-2008 to 2-9-2013)

Director, Internal Quality Assurance Cell (IQAC), GJUS&T Hisar (Nov, 2015 to June, 2017)

Nodal officer of National Institutional Ranking Framework for NIRF 2016 & 2017

Director, UGC-Human Resource Development Centre/ Malaviya Mission Teacher Training Centre, GJUS&T Hisar. (3-7-2017 to 30-6-2021 & from 21-03-2023 to 20-03-24)

Dean, Research & Development, GJUS&T Hisar. (1-7-2021 to 20-3-2023)

Incharge (Radio-Ecology Centre) GJUS&T Hisar. (15-11-2016 to May, 2023)

Education:

Ph. D. (Microbiology), Microbial Biotechnology Laboratory, CCS Haryana Agricultural University, Hisar, INDIA, September 1997.

Dissertation: "Studies on Bacteriocin production by *Lactobacillus* species". OGPA: 3.91/4.0 (88.2%), Supervisor: Professor (Mrs) S. Sharma.

M.Sc. (Microbiology), CCS Haryana Agricultural University, Hisar, INDIA, Feb 1994
OGPA: 3.73/4.0 (84.6%) (First position), Dissertation: " Ethanol production from starch by fusants of *Saccharomyces cerevisiae* and *S. diastaticus* ". Supervisor: Professor (Mrs) S. Sharma.

B.Sc. (Forestry), CCS Haryana Agricultural University, Hisar, INDIA, June 1991
OGPA: 3.85/4.0 (85.6%) (Second position).

Appointments:

08/2012 to Till date: Professor, Department of Bio & Nano Technology, Guru Jambheshwar University of Science & Technology, Hisar, India.
 08/2009 – 08/2012: Associate Professor, Department of Bio & Nano Technology, Guru Jambheshwar University of Science & Technology, Hisar, India.
 08/2006 – 08/2009: Reader, Department of Bio & Nano Technology, Guru Jambheshwar University of Science & Technology, Hisar, India.
 08/2002 – 08/2006: Lecturer (Senior Scale), Department of Food Technology/Biotechnology, Guru Jambheshwar University of Science & Technology, Hisar, India.
 08/1998 - 08/2002: Lecturer, Department of Food technology/Biotechnology, Guru Jambheshwar University of Science & Technology, Hisar, India.
 11/1997 - 08/1998: Postdoctoral Research Associate, National Fellow Project, Rumen Biotechnology Laboratory, Central Institute of Research on Buffaloes, Hisar, India.
 01/1995 - 09/1997: Senior Research Fellow, CSIR, Ph. D research student, Microbial Biotechnology Laboratory, CCS Haryana Agricultural University, Hisar, INDIA.

Google Citation indices	All
Citations	11443
h-index	58
i10-index	135

Date of Birth	5.10.1970
Qualification	M. Sc., Ph.D. (Microbiology)

Membership of Scientific and Professional Societies

Association of Microbiologists of India. (**Life Member**)
 Society for Conservation of Domestic Animal Biodiversity (**Life Member**)

No of Students Guided/ Supervised:

Guiding	Guided	Presently
Ph. D	15+6*	3
M.Sc	84	8
M.Tech	43	0

* Co-Supervisor

Sponsored research/Consultancy Projects:

Funding Agency	Type of Project	Title of Project	Amount Sanctioned	Personnel Status
UGC	Major Research Project	Genetic Diversity among strains of <i>Xanthomonas axonopodis</i> pv <i>cyamopsidis</i> isolated from Northern India	6.94 lakhs	Principal Investigator (Completed)
UGC	Major Research Project	Genetic Transformation of Rice (<i>Oryza sativa</i>) for introduction of salinity tolerance.	6.65 lakhs	Co-PI (Completed)
UGC	Major Research Project	Genetic Diversity and Phylogenetic relationship among Rhizobia nodulating <i>Acacia</i> spp	6.63 lakhs	Principal Investigator (Completed)
BARC-	Research	Estimation of Transfer factor in	21 Lakhs	Principal Investigator

BRNS	Project	the terrestrial environmental matrices around proposed plant site in Haryana.		(Completed)
DST	Collaborative Research Project	Synthesis, Characterization and evaluation of drug- loaded nanoformulations against trypanosome evansi in animal model	35.31 Lakhs	Co-Principal Investigator (Completed)
DST	Indo-Thailand International Project	Developing Filter Paper for Production of Safe Drinking Water. Indo-Thailand International Project	8.87 Lacs	Co-Investigator (Completed)
DST	IDP Research Project	Development of Nano gold based immunochromatography/ immuno dot blot assay for detection of <i>Trypanosoma evansi</i> infection in animals	23.7 Lakhs	Principal Investigator (Completed)
BRNS-DAE	Major Project	"Determination of Natural Uranium in groundwater in Hisar, Bhiwani and Rewari district of Haryana".	22 Lakhs	Co- Investigator (Completed)
ADAMA Agan Ltd., Israel.	Industrial	"Synthesis of pesticide-loaded nanoformulation" by International Industry Adama Agricultural Solutions Ltd. Israel 2017-2019 (25 Lakhs/38000\$)	24.89 Lakhs	Principal Investigator (Ongoing)
DRDO	LSRB	"Studies on Development of Biosensor for Detection of Explosives (Hydrazine and TNT)" by DRDO, Govt of India. 2017-2020.	38.43 lakhs 2017-2020	Principal Investigator (Completed)
DBT-GOI		"Development of Novel Fluorescent Platforms for the Detection of Heavy Metals in Water" by DBT, Govt of India 2017-2020.	66.703 lakhs (2019-2022)	Co-Investigator Principal Investigator (Completed)
BRNS-DAE	Major Project	"Rn/Th and Gamma –Radiation Levels Quantification in Four Districts of Haryana Sirsa, Fatehabad, Hisar & Bhiwani)".	35.28 Lakhs	Principal Investigator (Completed)
HSCST		"Metal Organic Frameworks-based Platform for Pesticide Removal in Haryana and Punjab Region"	10 Lakh	Co-Principal Investigator (Completed)
DBT-GOI		"Development of MOF/QD based optical sensor for determination of Phosphate in agricultural land to facilitate effective crop production" by DBT, Govt of India 2017-2020.	59.43 lakhs 2020-2023	Principal Investigator (Ongoing)
SPARC,	Indo-German	Focus on integrated nanoscalar	43 lakhs	Indian Principal

MoE	Collaborative Project	point-of-care devices for high performance multiplexed monitoring of priority antibiotics		Investigator & Prof Sven Ingebandt (AACHEN University, Germany, International PI) (Ongoing)
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Publications: >200 Research Papers, 9 chapters, >150 abstracts and 34 sequence submissions to Pubmed.

Patents:

Anju Manuja, Gaurav Bhanjana, Sandeep Kumar, Harmanmeet Kaur, Neeraj Dilbaghi “Nano drug delivery for quinapyramine sulphate” Indian Patent. Application No.2560/DEL/2011 A, Publication Date: 08/03/2013; Date of Award :06/09/2011. (The invention relates to a novel drug delivery system for quinapyramine sulphate in form of nano-particle formulation. The invention provides polymer based quinapyramine sulphate loaded nano-particles).

Neeraj Dilbaghi, Prashant Kumar, Oncology skin care nanodermatic dosage form design: semi-phyto topical nano lipid solution” Application no. 202211034201, Filed on 15-06-2022.

Neeraj Dilbaghi, Prashant Kumar, In-Vitro/In-Chemico Skin Sensitivity Determination Assay Method, Application no. 202211034202, Filed on 15-06-2022.

Current research interests:

- Water Purification
- Nanomaterials for healthcare and agricultural applications.
- Diagnostics and Biosensors based on Nanomaterials

Industrial Partners/Collaborators:

1. Advanced Microdevices (mdi) P. Ltd, Ambala, Haryana.
2. Nanoshel, Intelligent Materials Pvt. Ltd., Derabassi, Punjab
3. Aquadiagnostics Water Research & Technology Center Limited, Bangalore

Selected International Publications of Dr Neeraj Dilbaghi

July 24 – Till Date

1. Carbon dots for pathogen detection and imaging: recent breakthroughs and future trends, Authors: Sonam Kumari, Monika Nehra, Shikha Jain, Aman Kumar, **Neeraj Dilbaghi**, Giovanna Marrazza, Ganga Ram Chaudhary, Sandeep Kumar, Publication date: 2024/11, Source: Microchimica Acta, Volume: 191, Pages: 684, Publisher: Springer Vienna.
2. Synthesis of ZrO₂ and its composite with activated carbon for lead adsorption and antibacterial applications, Authors: Sarita Alhan, Monika Nehra, **Neeraj Dilbaghi**, Sandeep Kumar, Publication date: 2024/11/1, Journal: Hybrid Advances, Pages: 100321, Publisher: Elsevier.
3. A Novel Electrochemical Sensing Platform for Detection of Nitrobenzene Using Gadolinium Oxide Nanorods Modified Gold Electrode, Authors: Bharti Sharma, Shikha Jain, **Neeraj Dilbaghi**, Publication date: 2024/9/17, Journal: Indian Journal of Microbiology, Pages: 1-10, Publisher: Springer India.

4. Gliadin Encapsulated Procyanidolic Oligomers Nanoformulation: Aggrandized Antimicrobial, Antioxidant as Well as Anticancer Potential Makes it an Effective Therapeutic Modality for Lung Carcinoma, Authors: Sant Lal, Monika Kataria, Ruma Rani, **Neeraj Dilbaghi**, Publication date: 2024/8/29, Journal: Indian Journal of Microbiology, Pages: 1-14, Publisher: Springer India.
5. Exploring highly electro-active zinc peroxide nanorod for selective detection of hydrazine, Authors: Bharti Sharma, Shikha Jain, Sandeep Kumar, Ajeet K Kaushik, **Neeraj Dilbaghi**, Publication date: 2024/8/1, Journal: Sensors and Actuators A: Physical, Volume: 373, Pages: 115429, Publisher: Elsevier.

July 23 – June 24

1. Development of a FRET aptasensor based on MoS₂-doped Zn-MOF as luminophore for selective detection of cadmium in aqueous solutions, Authors: Shikha Jain, Monika Nehra, Rajesh Kumar, **Neeraj Dilbaghi**, Ki-Hyun Kim, Sandeep Kumar, Publication date: 2024/6, Journal: Microchimica Acta, Volume: 191, Issue: 6, Pages: 1-11, Publisher: Springer Vienna.
2. Encapsulation of citrus polyphenols in multi-phase nano-emulsion: Preservative potential, bio-accessibility and cytotoxicity studies, Authors: Samandeep Kaur, Parmjit S Panesar, Harish K Chopra, **Neeraj Dilbaghi**, Publication date: 2024/6/1, Journal: Food Bioscience, Volume: 59, Pages:103911, Publisher: Elsevier.
3. Synergistic electrochemical sensing of 2, 4-dinitrotoluene via bimetallic nickel-cobalt oxide nanoparticles, Authors: Bharti Sharma, Shikha Jain, Ahmad Umar, Sushma Rani, Sandeep Kumar, Ahmed A Ibrahim, **Neeraj Dilbaghi**, Publication date: 2024/6/1, Journal: Chemical Physics Impact, Volume: 8, Pages: 100470, Publisher: Elsevier.
4. Bio-templated Synthesis of Multi-functional Bimetallic Ag-Cu Nanospheres: Unveiling Therapeutic Potential, Authors: Monika Kataria, Sant Lal, **Neeraj Dilbaghi**, Publication date: 2024/5/31, Journal: Nano LIFE, Publisher: World Scientific Publishing Company.
5. Bacteriologically Derived Copper Nanoparticles as Novel Arsenal Against Multidrug-Resistant Pathogens, Authors: Monika Kataria, Sant Lal, **Neeraj Dilbaghi**, Publication date: 2024/5/8, Journal: Indian Journal of Microbiology, Pages: 1-9, Publisher: Springer India.
6. Antibacterial Activity of Sustainable Thymol Nanoemulsion Formulations Against the Bacterial Blight Disease on Cluster Bean Caused by *Xanthomonas axonopodis*, Authors: Pooja Choudhary, Gaurav Bhanjana, Sandeep Kumar, **Neeraj Dilbaghi**, Publication date: 2024/4/5, Journal: Indian Journal of Microbiology, Pages: 1-11, Publisher: Springer India.
7. Development and evaluation of eco-friendly carvacrol nanoemulsion as a sustainable biopesticide against bacterial leaf blight of cluster bean, Authors: Pooja Choudhary, Gaurav Bhanjana, Sandeep Kumar, **Neeraj Dilbaghi**, Publication date:2024/2, Journal: Pest Management Science, Volume: 80, Issue: 2, Pages: 452-462, Publisher: JohnWiley & Sons, Ltd.
8. Catalytic applications of phosphorene: Computational design and experimental performance assessment, Authors: Monika Nehra, **Neeraj Dilbaghi**, Rajesh Kumar, Sunita Srivastava, K Tankeshwar, Ki-Hyun Kim, Sandeep Kumar, Publication date:2024/2/1, Source: Critical Reviews in Environmental Science and Technology,

Volume:54, Issue:3, Pages:185-209, Publisher: Taylor & Francis.

9. Recent advancements in adsorptive removal of organophosphate pesticides from aqueous phase using nanomaterials, Authors: Jyotsana Mehta, Rahul Kumar Dhaka, **Neeraj Dilbaghi**, Dong Kwon Lim, Ashraf Aly Hassan, Ki-Hyun Kim, Sandeep Kumar, Publication date: 2024/2, Source: Journal of Nanostructure in Chemistry, Volume: 14, Issue: 1, Pages: 53-70, Publisher: Springer Berlin Heidelberg.
10. Fabrication and evaluation of silver-doped magnesium oxide nanocomposite coatings for orthopaedics applications, Authors: Manjit Singh Jadon, Gaurav Bhanjana, **Neeraj Dilbaghi**, Nitin Kumar Singhal, Sandeep Kumar, Publication date: 2024/1/25, Journal: Journal of Alloys and Compounds, Volume: 972, Pages: 172848, Publisher: Elsevier.
11. Evaluation of the anti-depressant potential of EGCG-loaded nanoparticles in unstressed and stressed mice, Authors: Shakti Dahiya, Ruma Rani, **Neeraj Dilbaghi**, Dinesh Dhingra, Sant Lal, Jaya Verma, Publication date: 2024, Journal: RSC Pharmaceutics, Publisher: Royal Society of Chemistry.
12. ZnO₂/CNT Nanocomposite-Based Electrochemical Sensors for the Detection of Trinitrotoluene, Authors: Bharti Sharma, Shikha Jain, Sandeep Kumar, **Neeraj Dilbaghi**, Publication date: 2023/12/29, Journal: ACS Chemical Health & Safety, Volume: 31, Issue: 1, Pages: 85-97, Publisher: American Chemical Society.
13. Metallosurfactant aggregates: Structures, properties, and potentials for multifarious applications, Authors: Sonam Kumari, Monika Nehra, Shikha Jain, **Neeraj Dilbaghi**, Ganga Ram Chaudhary, Ki-Hyun Kim, Sandeep Kumar, Publication date: 2023/12/6, Source: Advances in Colloid and Interface Science, Pages: 103065, Publisher: Elsevier.
14. Electrochemiluminescent quantum dots as emerging next generation sensing platforms, Authors: Jyotsana Mehta, **Neeraj Dilbaghi**, Nitin Kumar Singhal, Giovanna Marrazza, Ajeet Kaushik, Sandeep Kumar, Publication date: 2023/10/31, Source: Chemical Engineering Journal, Pages: 146958, Publisher: Elsevier.
15. Trends and prospects of 2-D tungsten disulphide (WS₂) hybrid nanosystems for environmental and biomedical applications, Authors: UT Uthappa, Monika Nehra, Rajesh Kumar, **Neeraj Dilbaghi**, Giovanna Marrazza, Ajeet Kaushik, Sandeep Kumar, Publication date: 2023/10/13, Source: Advances in Colloid and Interface Science, Pages: 103024, Publisher: Elsevier.
16. Natural radionuclides in surface soil and quantification of associated radiological hazards in Fatehabad and Hisar districts, Haryana, India, Authors: Shakuntala Rani, RS Kundu, Vinod Kumar Garg, Balvinder Singh, **Neeraj Dilbaghi**, Amanjeet Panghal, Publication date: 2023/10/3, Journal: Indian Journal of Pure & Applied Physics (IJPAP), Volume: 61, Issue: 11, Pages: 945-954.
17. Characterization, cytotoxicity, and stability evaluation of novel nanocurcumin functionalized cream powder under accelerated storage conditions, Authors: Kiran Verma, Ayon Tarafdar, Ruchika Maurya, Deepak Kumar, Prarabdh C Badgujar, Kanthi Kiran Kondepudi, **Neeraj Dilbaghi**, Publication date: 2023/10/1, Journal: Powder Technology, Volume: 428, Pages: 118809, Publisher: Elsevier.
18. Electrochemical techniques for biomedical nanotechnology, Authors: Jyotsana Mehta, **Neeraj Dilbaghi**, Sandeep Kumar, Publication date: 2023/7/1, Book: Analytical

Techniques for Biomedical Nanotechnology, Pages: 2-1-2-45, Publisher: IOP Publishing.

July 22- June 23

1. Optical Nanosensors and Their Integrated Approaches for the Detection of Pathogens, Authors: Sonam Kumari, **Neeraj Dilbaghi**, Ganga Ram Chaudhary, Sandeep Kumar, Publication date: 2023/6/16, Book: Nanosensors for Point-of-Care Diagnostics of Pathogenic Bacteria, Pages: 17-40, Publisher: Springer Nature Singapore.
2. Adsorption of harmful dyes and antimicrobial studies utilizing recyclable ZnO, its composites with conventionally used activated carbon, and waste orange peel as a greener approach, Authors: Wandit Ahlawat, **Neeraj Dilbaghi**, Rajesh Kumar, Nitin Kumar Singhal, Ajeet Kaushik, Sandeep Kumar, Publication date: 2023/6/1, Journal: Journal of Environmental Chemical Engineering, Volume: 11, Issue: 3, Pages: 110268, Publisher: Elsevier.
3. Molecularly Imprinted Polymers-coated Fluorescent Nanomaterials for Detection of Antibiotic Residues, Authors: Monika Nehra, Anjali Anjali, Nisha Beniwal, **Neeraj Dilbaghi**, Rajesh Kumar, Sandeep Kumar, Publication date: 2023/5/12, Publisher: MDPI.
4. Molecularly Imprinted Polymers/Metal–Organic Framework (MIL-53) for Fluorescent Sensing of Ciprofloxacin in Water, Authors: Monika Nehra, Anjali Rohilla, Nisha Beniwal, **Neeraj Dilbaghi**, Rajesh Kumar, Sandeep Kumar, Publication date: 2023/5/12, Journal: Engineering Proceedings, Volume: 35, Issue:1, Pages: 30, Publisher: MDPI.
5. Nanoformulation of a Trypanocidal Drug Isometamidium Chloride Ameliorates the Apurinic-Apyrimidinic DNA Sites/Genotoxic Effects in Horse Blood Cells, Authors: Sandeep Singh, Balvinder Kumar, **Neeraj Dilbaghi**, Nisha Devi, Minakshi Prasad, Anju Manuja, Publication date: 2023/3/2, Journal: Journal of Xenobiotics, Volume: 13, Issue: 1, Pages:148-158, Publisher: MDPI.
6. Carbon quantum dots@ metal–organic framework based highly sensitive and catalytic nucleic acid fluorescent system for Pb²⁺ detection selectively in aqueous solutions, Authors: Shikha Jain, **Neeraj Dilbaghi**, Nitin Kumar Singhal, Ajeet Kaushik, Ki-Hyun Kim, Sandeep Kumar, Publication date: 2023/1/7, Journal: Chemical Engineering Journal, Pages: 141375.
7. Controlled synthesis of Cu-MOF possessing peroxidase-mimetic activity for the colorimetric detection of tetracycline in aqueous solution, Authors: Monika Nehra, Rajesh Kumar, **Neeraj Dilbaghi**, Sandeep Kumar, Publication date: 2023, Journal: New Journal of Chemistry, Volume: 47, Issue: 16, Pages: 7595-7603, Publisher: RoyalSociety of Chemistry.
8. Quantum dots and conjugated metal-organic frameworks for targeted drug delivery and bioimaging of cancer, Authors: Shikha Jain, Monika Nehra, Rajesh Kumar, **Neeraj Dilbaghi**, Sandeep Kumar, Publication date: 2023/1/1, Book: Engineered Nanostructures for Therapeutics and Biomedical Applications, Pages: 73-102, Publisher: Woodhead Publishing.
9. Fluorescent inorganic nanoparticles for bioimaging and therapeutic applications, Authors: Jyotsana Mehta, Manjit Singh Jadon, **Neeraj Dilbaghi**, Sandeep Kumar, Publication date: 2023/1/1, Source: Engineered Nanostructures for Therapeutics and

Biomedical Applications, Pages: 45-71, Publisher: Woodhead Publishing.

10. Synthesis and Evaluation of Naringin-Loaded Neem Oil Nanopesticidal Emulsion for Sustainable Crop Management System, Authors: Pooja Choudhary, Gaurav Bhanjana, Sandeep Kumar, Neeraj Dilbaghi, Publication date: 2022/12/21, Journal: ACS Agricultural Science & Technology, Publisher: American Chemical Society.
11. Pharmaceutical Nanoarchitectonics: Molecular Pharmaceutics and Smart Delivery of β -Caryophyllene Constellated 5-FU Nanoinvasomes for Skin Cancer Therapy, Authors: Prashant Bhardwaj, Neeraj Dilbaghi, Publication date: 2022/12, Journal: BioNanoScience, Volume: 12, Issue: 4, Pages: 1329-1340.
12. Probing of silver oxide nanoblades for 4-hydroxybenzoic acid quantification: a tool for food and water safety assessment, Authors: G Bhanjana, GR Chaudhary, N Dilbaghi, A Kaushik, K-H Kim, S Kumar, Publication date: 2022/12/1, Journal: Materials Today Chemistry, Volume: 26, Pages: 101142, Publisher: Elsevier.
13. Radon and Thoron Exhalation Rate in the soil of Western Haryana, India, Authors: Shakuntala Rani, Rajender Singh Kundu, Vinod Kumar Garg, Balvinder Singh, Amanjeet Panghal, Neeraj Dilbaghi, Publication date: 2022/11/3.
14. Lutein extract-loaded nanoemulsions: Preparation, characterization, and application in dairy product, Authors: Anuradha Saini, Parmjit Singh Panesar, Neeraj Dilbaghi, Minakshi Prasad, Manab Bandhu Bera, Publication date: 2022/11, Journal: Journal of Food Processing and Preservation, Volume: 46, Issue: 11, Pages: e17082.
15. Recent advancements in adsorptive removal of organophosphate pesticides from aqueous phase using nanomaterials, Authors: Jyotsana Mehta, Rahul Kumar Dhaka, Neeraj Dilbaghi, Dong Kwon Lim, Ashraf Aly Hassan, Ki-Hyun Kim, Sandeep Kumar, Publication date: 2022/10/13, Source: Journal of Nanostructure in Chemistry, Pages: 1-18, Publisher: Springer Berlin Heidelberg.
16. Current paradigms in epigenetic anticancer therapeutics and future challenges, Authors: Manoj Singh, Vikas Kumar, Nirmala Sehrawat, Mukesh Yadav, Mayank Chaudhary, Sushil K Upadhyay, Sunil Kumar, Varruchi Sharma, Sandeep Kumar, Neeraj Dilbaghi, Anil K Sharma, Publication date: 2022/8/1, Source: Seminars in Cancer Biology, Volume: 83, Pages: 422-440, Publisher: Academic Press.
17. Current Scenario of Pathogen Detection Techniques in Agro-Food Sector, Authors: Monika Nehra, Virendra Kumar, Rajesh Kumar, Neeraj Dilbaghi, Sandeep Kumar, Publication date: 2022/7/4, Source: Biosensors, Volume: 12, Issue: 7, Pages: 489, Publisher: MDPI.
18. Insight into the antifungal effect of chitosan-conjugated metal oxide nanoparticles decorated on cellulosic foam filter for water filtration, Authors: Shikha Jain, Monika Nehra, Neeraj Dilbaghi, Nitin Kumar Singhal, Giovanna Marrazza, Ki-Hyun Kim, Sandeep Kumar, Publication date: 2022/7/2, Journal: International Journal of Food Microbiology, Volume: 372, Pages: 109677, Publisher: Elsevier.

July 21- June 22

1. Trends in point-of-care optical biosensors for antibiotics detection in aqueous media, Authors: Monika Nehra, Neeraj Dilbaghi, Rajesh Kumar, Sandeep Kumar, Publication date: 2022/2/1, Journal: Materials Letters, Volume: 308, Pages: 131235, Publisher: North-Holland
2. Boric-acid-functionalized luminescent sensor for detection of chromate ions in aqueous solution, Authors: Shikha Jain, Monika Nehra, Neeraj Dilbaghi, Rajesh Kumar, Sandeep Kumar, Publication date: 2022/1/1, Journal: Materials Letters, Volume: 306, Pages: 130933, Publisher: North-Holland
3. Nanobiotechnology-assisted therapies to manage brain cancer in personalized manner, Authors: Monika Nehra, UT Uthappa, Virendra Kumar, Rajesh Kumar, Chandra Dixit, Neeraj Dilbaghi, Yogendra Kumar Mishra, Sandeep Kumar, Ajeet Kaushik, Publication date: 2021/10/10, Source: Journal of Controlled Release, Volume: 338, Pages: 224-243, Publisher: Elsevier
4. Nanoencapsulated curcumin emulsion utilizing milk cream as a potential vehicle by microfluidization: Bioaccessibility, cytotoxicity and physico-functional properties, Authors: Prarabdh C. Badgular Kiran Verma, Ayon Tarafdar, Vijendra Mishra, Neeraj Dilbaghi, Kanthi Kiran Kondepudi, Publication date: 2021/7/13, Journal: Food Research International, Volume: 148, Publisher: Elsevier

1 July 2020 to 30 June 2021:

1. Aspects of point-of-care diagnostics for personalized health wellness (2021) Sandeep Kumar, Monika Nehra, Sakina Khurana, **Neeraj Dilbaghi**, Vanish Kumar, Ajeet Kaushik, Ki-Hyun Kim, *International Journal of Nanomedicine* (16) 383. <https://doi.org/10.2147/IJN.S267212> (IF: 6.400)
2. Nanoencapsulated curcumin emulsion utilizing milk cream as a potential vehicle by microfluidization: Bioaccessibility, cytotoxicity and physico-functional properties (2021) Prarabdh C. Badgular Kiran Verma, Ayon Tarafdar, Vijendra Mishra, **Neeraj Dilbaghi**, Kanthi Kiran Kondepudi, *Food Research International* (148) 110611. <https://doi.org/10.1016/j.foodres.2021.110611> (IF: 6.475)
3. Evaluation of graphene oxide and its composite as potential sorbent for removal of cationic and anionic dyes (2021) Wandit Ahlawat, **Neeraj Dilbaghi**, Sandeep Kumar, *Materials Today: Proceedings* (45) 5500-5505. <https://doi.org/10.1016/j.matpr.2021.02.215>
4. Current paradigms in epigenetic anticancer therapeutics and future challenges (2021) Manoj Singh, Vikas Kumar, Nirmala Sehrawat, Mukesh Yadav, Mayank Chaudhary, Sushil K Upadhyay, Sunil Kumar, Varruchi Sharma, Sandeep Kumar, **Neeraj Dilbaghi**, AnilK Sharma, *Seminars in Cancer Biology* <https://doi.org/10.1016/j.semcancer.2021.03.013> (IF: 15.707)

5. Internet of medical things (IoMT)-integrated biosensors for point-of-care testing of infectious diseases (2021) Shikha Jain, Monika Nehra, Rajesh Kumar, **Neeraj Dilbaghi**, TonyY.Hu, Sandeep Kumar, Ajeet Kaushik, Chen-zhong Li, *Biosensors and Bioelectronics*, 113074. <https://doi.org/10.1016/j.bios.2021.113074> (IF: 10.618)
6. Emerging nanobiotechnology in agriculture for the management of pesticide residues (2021) Monika Nehra, **Neeraj Dilbaghi**, Giovanna Marrazza, Ajeet Kaushik, Christian Sonne, Ki-Hyun Kim, and Sandeep Kumar, *Journal of Hazardous Materials* (104), 123369. <https://doi.org/10.1016/j.jhazmat.2020.123369> (IF: 10.588)
7. Green synthesis of metal–organic frameworks: A state-of-the-art review of potential environmental and medical applications (2020) Sandeep Kumar, Shikha Jain, Monika Nehra, **Neeraj Dilbaghi**, Giovanna Marrazza, Ki-Hyun Kim, *Coordination Chemistry Reviews* (420), 213407. <https://doi.org/10.1016/j.ccr.2020.213407> (IF: 22.315)
8. 1D Semiconductor Nanowires for Energy Conversion, Harvesting and Storage Applications (2020) Monika Nehra, **Neeraj Dilbaghi**, Giovanna Marrazza, Ajeet Kaushik, Reza Abolhassani, Yogendra Kumar Mishra, Ki Hyun Kim, and Sandeep Kumar, *Nano Energy* (76), 104991. <https://doi.org/10.1016/j.nanoen.2020.104991> (IF: 17.881)
9. Sn-MOF@ CNT nanocomposite: An efficient electrochemical sensor for detection of hydrogen peroxide (2020) Rani, Sushma, Bharti Sharma, Rajesh Malhotra, Sandeep Kumar, Rajender S. Varma, and **Neeraj Dilbaghi**, *Environmental Research* 191, 110005. <https://doi.org/10.1016/j.envres.2020.110005> (IF: 6.498)
10. Experimental analysis of heat transfer behavior of silver, MWCNT and hybrid (silver+ MWCNT) nanofluids in a laminar tubular flow (2020) Munish Gupta, Vinay Singh, Sandeep Kumar, and **Neeraj Dilbaghi**. *Journal of Thermal Analysis and Calorimetry* 1-15. <https://doi.org/10.1007/s10973-020-09453-w> (IF: 3.458)
11. Synthesis and characterization of novel amphiphilic tamarind seed xyloglucan-octenyl succinic anhydride conjugate (2020) **Neeraj Dilbaghi**, Munish Ahuja, Manju Bernela, Sandeep Kumar, Prashant Bhardwaj, and Harmanmeet Kaur, *Journal of Polymer Research* 27, 1-8. <https://link.springer.com/article/10.1007/s10965-020-02195-1> (IF: 2.599)
12. Rapid redox sensing of p-nitrotoluene in real water samples using silver nanoparticles (2020) Sushma Rani, **Neeraj Dilbaghi**, Sandeep Kumar, Rajender S. Varma, and Rajesh Malhotra, *Inorganic Chemistry Communications* 120, 108157. <https://doi.org/10.1016/j.inoche.2020.108157> (IF: 2.495)
13. Nanotechnology enabled the enhancement of antitrypanosomal activity of piperine against *Trypanosoma evansi* (2020) Ruma Rani, Sandeep Kumar, **Neeraj Dilbaghi**, Rajender Kumar, *Experimental Parasitology* 219, 108018. <https://doi.org/10.1016/j.exppara.2020.108018> (IF: 2.011)

1 July 2019 to 30 June 2020

14. Carbonaceous nanomaterials as effective and efficient platforms for removal of dyes from aqueous systems (2020) Wandit Ahlawat, Navish Kataria, **Neeraj Dilbaghi**, Ashraf A

- Hassan, K H Kim, and Sandeep Kumar, *Environmental Research* 181, 108904. <https://doi.org/10.1016/j.envres.2019.108904> (IF: 6.498)
15. Nanotechnology-based biomaterials for orthopedic applications: Recent advances and future prospects (2020) Sandeep Kumar, Monika Nehra, Deepak Kedia, **Neeraj Dilbaghi**, K. Tankeshwar, and Ki-Hyun Kim, *Materials Science & Engineering C* (106), 110154. <https://doi.org/10.1016/j.msec.2019.110154> (IF: 7.328)
 16. Aspects of Point-of-Care Diagnostics for Personalized Health Wellness (2020) Sandeep Kumar, Monika Nehra, Sakina Khurana, **Neeraj Dilbaghi**, Vanish Saini, Ajeet Kaushik, Ki-Hyun Kim, *International Journal of Nanomedicine* 16, 383. <https://doi.org/10.2147/IJN.S267212> (IF: 6.761)
 17. Investigating the efficiency of α -Bismuth zinc oxide heterostructure composite/UV-LED in methylene blue dye removal and evaluation of its antimicrobial activity (2020) Moondeep Chauhan, Teenu Jasrotia, Gurveengeet Kaur, Chander Prakash, Rajeev Kumar, **Neeraj Dilbaghi**, Ganga Ram Chaudhary, and Sandeep Kumar, *Environmental Research* (180), 108857. <https://doi.org/10.1016/j.envres.2019.108857> (IF: 6.498)
 18. Fabrication of Zn-MOF@ rGO based sensitive nanosensor for the real time monitoring of hydrazine (2020) Sushma Rani, Shivani Kapoor, Bharti Sharma, Sandeep Kumar, Rajesh Malhotra, and **Neeraj Dilbaghi**, *Journal of Alloys and Compounds* 816, 152509. <https://doi.org/10.1016/j.jallcom.2019.152509> (IF: 5.316)
 19. Nano-biosensing platforms for detection of cow's milk allergens: an overview (2020) Monika Nehra, Mariagrazia Lettieri, **Neeraj Dilbaghi**, Sandeep Kumar, Giovanna Marrazza, *Sensors* (20), 32. <https://doi.org/10.3390/s20010032> (IF: 3.576)
 20. Development of membrane-based flow-through assay for detection of trypanosomosis in equines (2020) Ritesh Kumar, Suresh Chandra Yadav, Sandeep Kumar, and **Neeraj Dilbaghi**, *Journal of Parasitic Diseases* 44, 99-104. <https://link.springer.com/article/10.1007/s12639-019-01166-8>
 21. Nanovehicles for plant modifications towards pest and disease resistance traits (2019) Sandeep Kumar, Monika Nehra, **Neeraj Dilbaghi**, Giovanna Marrazza, Satish K Tuteja, Ki-Hyun Kim, *Trends in Plant Science* (25), 198-212. <https://doi.org/10.1016/j.tplants.2019.10.007> (IF: 14.416)
 22. Direct redox sensing of uranium using copper oxide quantum dots (2019) Gaurav Bhanjana, Inderpreet Toor, Ganga Ram Chaudhary, **Neeraj Dilbaghi**, Ki-Hyun Kim, Sandeep Kumar, *Journal of Molecular Liquids*, (292), 111455. <https://doi.org/10.1016/j.molliq.2019.111455> (IF 6.165)
- 1 July 2018 to 30 June 2019**
23. Advanced selection methodologies for DNazymes in sensing and healthcare applications (2019) Sandeep Kumar, Shikha Jain, **Neeraj Dilbaghi**, Amrik Singh Ahluwalia, Ashraf Aly Hassan, and Ki-Hyun Kim, *Trends in Biochemical Sciences* (44), 190-213. <https://doi.org/10.1016/j.tibs.2018.11.001> (IF: 13.807)

24. Nano-based smart pesticide formulations: Emerging opportunities for agriculture (2019) Sandeep Kumar, Monika Nehra, **Neeraj Dilbaghi**, Giovanna Marrazza, Ashraf Aly Hassan, and Ki-Hyun Kim, *Journal of Controlled Release* (294), 131-153. <https://doi.org/10.1016/j.jconrel.2018.12.012> (IF: 9.776)
25. Nanodiamonds: Emerging face of future nanotechnology (2019) Sandeep Kumar, Monika Nehra, Deepak Kedia, **Neeraj Dilbaghi**, K. Tankeshwar, and Ki-Hyun Kim, *Carbon* (143), 678-699. <https://doi.org/10.1016/j.carbon.2018.11.060> (IF: 9.594)
26. Novel electrochemical sensor for mononitrotoluenes using silver oxide quantum dots (2019), Gaurav Bhanjana, G R Chaudhary, **Neeraj Dilbaghi**, Moondeep Chauhan, KiHyun Kim and Sandeep Kumar, *Electrochimica Acta* (293), 283-289. <https://doi.org/10.1016/j.electacta.2018.10.042> (IF: 6.901).
27. Potential use of ZnO@activated carbon nanocomposites for the adsorptive removal of Cd²⁺ ions in aqueous solutions (2019) Sarita Alhan, Monika Nehra, **Neeraj Dilbaghi**, Nitin Kumar Singhal, Ki-Hyun Kim, and Sandeep Kumar, *Environmental Research* (173), 411- 418. <https://doi.org/10.1016/j.envres.2019.03.061> (IF: 6.498)
28. Metal organic frameworks MIL-100 (Fe) as an efficient adsorptive material for phosphate management (2019) Monika Nehra, **Neeraj Dilbaghi**, Nitin Kumar Singhal, Ashraf Aly Hassan, Ki-Hyun Kim, and Sandeep Kumar, *Environmental Research* (169), 229-236. <https://doi.org/10.1016/j.envres.2018.11.013> (IF: 6.498)
29. Antidiabetic activity enhancement in streptozotocin-nicotinamide rats through combinational polymeric nanoformulation (2019) Ruma Rani, Shakti Dahiya, Dinesh Dhingra, **Neeraj Dilbaghi**, Ajeet Kaushik, K H Kim, Sandeep Kumar, *International Journal of Nanomedicine* <https://doi.org/10.2147/IJN.S205319> (IF.: 6.761)
30. Manganese Oxide Nanochips as a Novel Electrocatalyst for Direct Redox Sensing of Hexavalent Chromium (2019) Gaurav Bhanjana, Pooja Rana, Ganga Ram Chaudhary, **Neeraj Dilbaghi**, Ki-Hyun Kim, Sandeep Kumar, Manganese Oxide Nanochips as a Novel Electrocatalyst for Direct Redox Sensing of Hexavalent Chromium (2019) 8050 <https://doi.org/10.1038/s41598-019-44525-4> (Accepted) (IF: 3.998)
31. Synthesis, thermal and surface activity of cationic single chain metal hybrid surfactants and their interaction with microbes and Protein (2019) Gurpreet Kaur, Preeti Garg, Baljinder Kaur, Ganga Ram Chaudhary, Sandeep Kumar, **Neeraj Dilbaghi**, P A Hassan and V K Aswal, *Soft Matter* (15) 2348-2358. <https://doi.org/10.1039/C9SM00046A> (IF.: 3.679)
32. Construction of silver quantum dot immobilized Zn-MOF-8 composite for electrochemical sensing of 2, 4-dinitrotoluene (2019) Sushma Rani, Bharti Sharma, Shivani Kapoor, Rajesh Malhotra, Rajender S. Varma, and **Neeraj Dilbaghi**, *Applied Sciences* 9, 4952. <https://doi.org/10.3390/app9224952> (IF.: 2.842)
33. Up to date review on the synthesis and thermophysical properties of hybrid nanofluids (2018) Munish Gupta, Vinay Singh, Satish Kumar, Sandeep Kumar, **Neeraj Dilbaghi**, and Zafar Said, *Journal of Cleaner Production* (190), 169-192. <https://doi.org/10.1016/j.jclepro.2018.04.146> (IF: 9.297)

34. Conjugation of epigallocatechin gallate and piperine into a zein nanocarrier: implication on antioxidant and anticancer potential (2018) Shakti Dahiya, Ruma Rani, Dinesh Dhingra, Sandeep Kumar and **Neeraj Dilbaghi**, *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 9 (3), 035011. doi.org/10.1088/2043-6254/aad5c1.
35. Novel electrochemical sensing of Arsenic ions using a simple graphite pencil electrode modified with Tin oxide nanoneedles (2018) Gaurav Bhanjana, Navjot Mehta, Ganga Ram Chaudhary, **Neeraj Dilbaghi**, Ki-Hyun Kim, and Sandeep Kumar, *Journal of Molecular Liquid* (264), 198-204. <https://doi.org/10.1016/j.molliq.2018.05.024> (IF: 6.165)
36. Chitosan quinapyramine sulfate nanoparticles exhibit increased trypanocidal activity in mice (2018) Anju Manuja, **Neeraj Dilbaghi**, Harmanmeet Kaur, Renu Saini, Manju Barnel, Meaenu Chopra, Balvinder K. Manuja, Rajender Kumar, Sandeep Kumar, Riyesh T., Shailendra K. Singh, Suresh C. Yadav, *Nano-Structures & Nano-Objects*, 16, 193-199. <https://doi.org/10.1016/j.nanoso.2018.05.001>
37. Biocompatibility and targeting efficiency of encapsulated quinapyramine sulfate-loaded chitosan-mannitol nanoparticles in a rabbit model of surra (2018) Anju Manuja, Balvinder Kumar, Rajender Kumar, Meenu Chopra, **Neeraj Dilbaghi**, Sandeep Kumar, Suresh C. Yadav, *Antimicrobial Agents and Chemotherapy* (62), e00466-18. <https://doi.org/10.1128/AAC.00466-18> (IF: 4.904)
38. Improvement of antihyperglycemic activity of nano-thymoquinone in rat model of type-2 diabetes (2018) R. Rani, S. Dahiya, D. Dhingra, **N. Dilbaghi**, K. H. Kim, and S. Kumar, *Chemico-Biological Interactions* (295), 119-132. <https://doi.org/10.1016/j.cbi.2018.02.006> (IF: 5.192)
39. Potentiation of nootropic activity of EGCG loaded nanosuspension by piperine in Swiss male albino mice (2018) Shakti Dahiya, Ruma Rani, Dinesh Dhingra, Sandeep Kumar, and **Neeraj Dilbaghi**, *Future Journal of Pharmaceutical Sciences* (4), 296-302. <https://doi.org/10.1016/j.fjps.2018.10.005>.
40. Enhanced antibacterial profile of nanoparticle impregnated cellulose foam filter paper for drinking water filtration (2018) Shikha Jain, Gaurav Bhanjana, Solmaz Heydarifard, **Neeraj Dilbaghi**, Mousa M Nazhad, Vanish Kumar, Ki-Hyun Kim, Sandeep Kumar, *Carbohydrate Polymers* (202), 219-226. <https://doi.org/10.1016/j.carbpol.2018.08.130>(IF:9.381)

1 July 2017 to 30 June 2018

41. Carbon Nanotubes: A potential material for energy conversion and storage (2018), Sandeep Kumar, Monika Nehra, Deepak Kedia, **Neeraj Dilbaghi**, K. Tankeshwar, and Ki-Hyun Kim, *Progress in Energy and Combustion Science* (64), 219-253. <https://doi.org/10.1016/j.pecs.2017.10.005> (IF: 29.394)
42. Recent advances and remaining challenges for polymeric nanocomposites and their health care applications (2018) Sandeep Kumar, Sarita, Monika Nehra, **Neeraj Dilbaghi**, K

Tankeshwar, and Ki-Hyun Kim, *Progress in Polymer Science* (80), 1-38. doi.org/10.1016/j.progpolymsci.2018.03.001 (IF: 29.190)

43. Modification of cellulose foam paper for use as a high-quality biocide disinfectant filter for drinking water (2018) Solmaz Heydarifard, Kapila Taneja, Gaurav Bhanjana, **Neeraj Dilbaghi**, Mousa M Nazhad, Ki-Hyun Kim, and Sandeep Kumar, *Carbohydrate Polymers* (181), 1086-92. <https://doi.org/10.1016/j.carbpol.2017.11.038> (IF: 9.381)
44. DNA interaction, anti-proliferative effect of copper oxide nanocolloids prepared from metallosurfactant based microemulsions acting as precursor, template and reducing agent (2018), Gurpreet Kaur, Varsha Dogra, Rajeev Kumar, Sandeep Kumar, Gaurav Bhanjana, **Neeraj Dilbaghi**, and Nitin Kumar Singhal, *International Journal of Pharmaceutics* (535), 95-105. <https://doi.org/10.1016/j.ijpharm.2017.10.059> (IF: 5.875)
45. Cationic double chained metallosurfactants: Synthesis, aggregation, cytotoxicity, antimicrobial activity and their impact on structure of Bovine serum albumin (2018) Gurpreet Kaur, Preeti Garg, Baljinder Kaur, G R Chandhary, Sandeep Kumar, **Neeraj Dilbaghi**, P Hassan, Santosh Gawali, *Soft Matter* (14), 5306-5318. <https://doi.org/10.1039/C8SM00535D> (IF: 3.679)
46. Process optimization for production and purification of novel fibrinolytic enzyme from *Stenotrophomonas* sp. KG-16-3 (2018) Kapila Taneja, Bijender Kumar Bajaj, Sandeep Kumar, and **Neeraj Dilbaghi**, *Biocatalysis and Biotransformation* (37), 124-138. [10.1080/10242422.2018.1504925](https://doi.org/10.1080/10242422.2018.1504925) (IF: 1.863)
47. Development of lateral flow assay for point-of-care diagnosis of trypanosomosis in equines (2018) Ritesh Kumar, **Neeraj Dilbaghi**, Sandeep Kumar, A.K. Gupta, Sandip Kumar Khurana, S.C. Yadav. *Journal of Equine Veterinary Science* (70), 1-6. (IF: 1.583)
48. Carbon nanotubes as sorbent material for removal of cadmium (2017) Gaurav Bhanjana, **Neeraj Dilbaghi**, Ki-Hyun Kim, and Sandeep Kumar, *Journal of Molecular Liquids* (242), 966-970. <https://doi.org/10.1016/j.molliq.2017.07.072> (IF: 6.165)
49. Zinc oxide nanopillars as an electrocatalyst for direct redox sensing of cadmium (2017) Gaurav Bhanjana, **Neeraj Dilbaghi**, Nitin Kumar Singhal, Ki-Hyun Kim, and Sandeep Kumar, *Journal of Industrial and Engineering Chemistry* 53, 192-200. <https://doi.org/10.1016/j.jiec.2017.04.025> (IF: 6.064)
50. Low temperature synthesis of copper oxide nanoflowers for lead removal using sonochemical route (2017) Gaurav Bhanjana, **Neeraj Dilbaghi**, Ki-Hyun Kim, and Sandeep Kumar, *Journal of Molecular Liquids* (244), 506-511. <https://doi.org/10.1016/j.molliq.2017.09.034> (IF: 6.165).

July 2016 to 30 June 2017

51. Carbon Nanotubes: A novel material for multifaceted applications in human healthcare (2017) Sandeep Kumar, Ruma Rani, **Neeraj Dilbaghi**, K. Tankeshwar, and Ki-Hyun Kim, *Chem. Soc. Rev.* (46), 158-196. [doi: 10.1039/C6CS00517A](https://doi.org/10.1039/C6CS00517A) (IF: 54.564)

52. Quantum-sized nanomaterials for solar cell applications (2017) Sandeep Kumar, Monika Nehra, Akash Deep, Deepak Kedia, **Neeraj Dilbaghi**, and Ki-Hyun Kim, *Renewable and Sustainable Energy Reviews* (73), 821-839. doi.org/10.1016/j.rser.2017.01.172 (IF: 14.982)
53. Modern progress and future challenges in nanocarriers for probe applications (2017) Pawan Kumar, Ki Hyun Kim, Vasudha Bansal, Sandeep Kumar, **Neeraj Dilbaghi**, and Yong Hyun Kim, *TrAC Trends in Analytical Chemistry* (86), 235-250. doi.org/10.1016/j.trac.2016.10.005 (IF:12.296)
54. Development of nanoformulation approaches for the control of weeds (2017) Sandeep Kumar, Gaurav Bhanjana, Amit Sharma, **Neeraj Dilbaghi**, M. C. Sidhu, and Ki-Hyun Kim, *Science of The Total Environment* (586), 1272-1278. doi.org/10.1016/j.scitotenv.2017.02.138 (IF: 7.963)
55. Direct ultrasensitive redox sensing of mercury using a nanogold platform (2017) Gaurav Bhanjana, **Neeraj Dilbaghi**, Vijayender Bhalla, Ki-Hyun Kim, and Sandeep Kumar, *Journal of Molecular Liquids* (225), 598-605. doi.org/10.1016/j.molliq.2016.11.090 (IF: 6.165)
56. A facile route for the synthesis of Co, Ni and Cu metallic nanoparticles with potential antimicrobial activity using novel metallosurfactants (2017) Gurpreet Kaur, Prabjot Singh, S. K. Mehta, Sandeep Kumar, **Neeraj Dilbaghi**, and Ganga Ram Chaudhary, *Applied Surface Science* (404), 254-262. doi.org/10.1016/j.apsusc.2017.01.284 (IF: 6.707)
57. Development of chitosan nanocapsules for the controlled release of hexaconazole (2017) Neetu Chauhan, **Neeraj Dilbaghi**, Madhuban Gopal, Rajesh Kumar, Ki-Hyun Kim, and Sandeep Kumar, *International Journal of Biological Macromolecules* (97), 616-624. doi.org/10.1016/j.ijbiomac.2016.12.059 (IF: 6.953)
58. Evaluation of anti-diabetic activity of glycyrrhizin-loaded nanoparticles in nicotinamide-streptozotocin-induced diabetic rats (2017) R. Rani, S. Dahiya, D. Dhingra, **N. Dilbaghi**, K. H. Kim, and S. Kumar, *European journal of pharmaceutical Sciences* (106), 220-230. [doi: 10.1016/j.ejps.2017.05.068](https://doi.org/10.1016/j.ejps.2017.05.068) (IF: 4.384)
59. Nano-Based Anti-Tubercular Drug Delivery and Therapeutic Interventions in Tuberculosis (2017) Rohit Sharma, Amanpreet Kaur, A. K Sharma, **Neeraj Dilbaghi**, and Anil K Sharma, *Current drug targets* (18), 72-86. (IF: 3.758)
60. Copper oxide nanoblades as novel adsorbent material for cadmium removal (2017) Gaurav Bhanjana, **Neeraj Dilbaghi**, Nitin Kumar Singhal, Ki-Hyun Kim, and Sandeep Kumar, *Ceramics International* (43), 6075-6081. doi.org/10.1016/j.ceramint.2017.01.152 (IF: 4.527)
61. Preparation, characterization, and bio-efficacy evaluation of controlled release carbendazim-loaded polymeric nanoparticles (2017) Sandeep Kumar, Dinesh Kumar, and **Neeraj Dilbaghi**, *Environmental Science and Pollution Research* (24), 926-937. [doi: 10.1007/s11356-016-7774-y](https://doi.org/10.1007/s11356-016-7774-y) (IF: 4.306)

62. Metformin-loaded alginate nanoparticles as an effective antidiabetic agent for controlled drug release (2017) Sandeep Kumar, Gaurav Bhanjana, Ritesh Kumar Verma, Dinesh Dhingra, **Neeraj Dilbaghi**, and Ki-Hyun Kim, *Journal of Pharmacy and Pharmacology* (69), 143-150. doi.org/10.1111/jphp.12672 (IF: 2.571)
63. Production, Purification and Characterization of Fibrinolytic Enzyme from *Serratia* sp. KG-2-1 using Optimized Media (2017) Kapila Taneja, Bijender Kumar Bajaj, Sandeep Kumar, **Neeraj Dilbaghi**, *3 Biotech* (7), 184. DOI: [10.1007/s13205-017-0808-4](https://doi.org/10.1007/s13205-017-0808-4) (IF: 2.406)
64. Chitosan-Gellan Gum Bipolymeric Nanohydrogels—a Potential Nanocarrier for the Delivery of Epigallocatechin Gallate (2017) Shakti Dahiya, Ruma Rani, Sandeep Kumar, Dinesh Dhingra, and **Neeraj Dilbaghi**, *BioNanoScience*, (7), 508-520. DOI: [10.1007/s12668-017-0416-0](https://doi.org/10.1007/s12668-017-0416-0)
65. Hybrid surfactants decorated with copper ions: Aggregation behavior, antimicrobial activity and anti-proliferative effect (2016) Gurpreet Kaur, Sandeep Kumar, **Neeraj Dilbaghi**, Gaurav Bhanjana, Santosh Kumar Guru, Shashi Bhushan, Sundeep Jaglan, P. A. Hassan, and V. K. Aswal, *Physical Chemistry Chemical Physics* (18), 23961-23970. DOI: [10.1039/C6CP03070J](https://doi.org/10.1039/C6CP03070J) (IF: 3.676)
66. Synthesis and optimization of Ceftriaxone-loaded Solid Lipid Nanocarriers (2016) Sandeep Kumar, Gaurav Bhanjana, Arvind Kumar, Kapila Taneja, **Neeraj Dilbaghi**, and Ki-Hyun Kim, *Chemistry and Physics of Lipids* (200), 126-132. [doi: 10.1016/j.chemphyslip.2016.09.002](https://doi.org/10.1016/j.chemphyslip.2016.09.002) (IF: 3.329)
67. Cytotoxicity and genotoxicity of a trypanocidal drug quinapyramine sulfate loaded-sodium alginate nanoparticles in mammalian cells (2016) Anju Manuja, Balvinder Kumar, Meenu Chopra, Anshu Bajaj, Rajinder Kumar, **Neeraj Dilbaghi**, **Sandeep Kumar**, Sandeep Singh, T Riyesh, and S C Yadav, *International Journal of Biological Macromolecules* (88), 146-155. doi.org/10.1016/j.ijbiomac.2016.03.034 (IF: 6.953)

1 July 2015 to 30 June 2016

68. Fabrication and characterization of highly sensitive and selective arsenic sensor based on ultra-thin graphene oxide nanosheets (2016) Sandeep Kumar, Gaurav Bhanjana, Rajeev Kumar, **Neeraj Dilbaghi**, and Ahmad Umar, *Sensors and Actuator B* (227), 29-34. doi.org/10.1016/j.snb.2015.11.101 (IF: 10.618)
69. One-step synthesis of silver metallosurfactant as an efficient antibacterial and anticancer material (2016) Gurpreet Kaur, Sandeep Kumar, Ravi Kant, Gaurav Bhanjana, **Neeraj Dilbaghi**, Santosh Kumar, Shashi Bhushan, and Sundeep Jaglan, *RSC Advances* (6), 57084-57097. DOI: [10.1039/C6RA09677H](https://doi.org/10.1039/C6RA09677H) (IF: 3.361)
70. Evaluation of bishexadecyltrimethyl ammonium palladium tetrachloride based dual functional colloidal carrier as an antimicrobial and anticancer agent (2016) Gurpreet Kaur, Sandeep Kumar, **Neeraj Dilbaghi**, Baljinder Kaur, Ravi Kant, Santosh Kumar, Shashi Bhushan, and Sundeep Jaglan, *Dalton Transactions* (45), 6582-6591. doi.org/10.1039/C6DT00312E (IF: 4.390)

71. Synthesis and evaluation of isometamidium-alginate nanoparticles on equine mononuclear and red blood cells (2016) Sandeep Singh, Meenu Chopra, **Neeraj Dilbaghi**, B K Manuja, Sandeep Kumar, Rajinder Kumar, N S Rathore, S C Yadav, Anju Manja, *International Journal of Biological Macromolecules* (92), 788-794. doi.org/10.1016/j.ijbiomac.2016.07.084 (IF: 6.953)
72. Robust and direct electrochemical sensing of arsenic using zirconia nanocubes (2016) Gaurav Bhanjana, **Neeraj Dilbaghi**, Savita Chaudhary, Ki-Hyun Kim, and Sandeep Kumar, *Analyst* (141), 4211-4218. [doi: 10.1039/C5AN02663F](https://doi.org/10.1039/C5AN02663F) (IF: 4.616)
73. Coencapsulation of hydrophobic and hydrophilic anti-TB drugs in synergistic Brij 96 microemulsions: A biophysical characterization (2015) Gupreet Kaur, S K Mehta, Sandeep Kumar, Gaurav Bhanjana, **Neeraj Dilbaghi**, *Journal of Pharmaceutical Sciences* (104), 2203-2212. [Doi: 10.1002/jps.24469](https://doi.org/10.1002/jps.24469) (IF: 3.534)
74. Graphene, carbon nanotubes, zinc oxide and gold as elite nanomaterials for fabrication of biosensors for healthcare (2015) Sandeep Kumar, Wandit Ahlawat, Rajesh Kumar, and **Neeraj Dilbaghi**, *Biosensors and Bioelectronics* (70), 498-503. [doi:10.1016/j.bios.2015.03.062](https://doi.org/10.1016/j.bios.2015.03.062) (IF: 10.618)
75. Multifaceted approach for the Fabrication of Metallomicelles and Metallic Nanoparticles using Solvophobic Bisdodecylaminepalladium (II) Chloride as Precursor (2015) Ganga Ram Chaudhary, Prabjot Singh, Gurpreet Kaur, Surinder Mehta, Sandeep Kumar, and **Neeraj Dilbaghi**, *Inorganic Chemistry* (54), 9002-9012. [Doi: 10.1021/acs.inorgchem.5b01171](https://doi.org/10.1021/acs.inorgchem.5b01171) (IF: 4.825)
76. Zinc Oxide quantum dots as efficient electron mediator for ultrasensitive and selective electrochemical sensing of Mercury (2015) Gaurav Bhanjana, **Neeraj Dilbaghi**, Rajeev Kumar, and Sandeep Kumar, *Electrochimica Acta*, (178), 361-367. [doi:10.1016/j.electacta.2015.07.113](https://doi.org/10.1016/j.electacta.2015.07.113) (IF: 6.901)
77. Development and evaluation of alginate-chitosan nanocapsules for controlled release of acetamiprid (2015) Sandeep Kumar, Neetu Chauhan, Madhuban Gopal, Rajesh Kumar, and **Neeraj Dilbaghi**, *International Journal of Biological Macromolecules* (81), 631-637. [doi:10.1016/j.ijbiomac.2015.08.062](https://doi.org/10.1016/j.ijbiomac.2015.08.062) (IF: 6.953)
78. SnO₂ quantum dots as novel platform for electrochemical sensing of cadmium (2015) Gaurav Bhanjana, **Neeraj Dilbaghi**, Rajesh Kumar, Ahmad Umar, and Sandeep Kumar, *Electrochimica Acta* (169), 97-102. [doi:10.1016/j.electacta.2015.04.045](https://doi.org/10.1016/j.electacta.2015.04.045) (IF: 6.901)
79. Optimization and Evaluation of Bioactive Drug-Loaded Polymeric Nanoparticles for Drug Delivery (2015) Ruma Rani, Dinesh Dhingra, **Neeraj Dilbaghi**, and Sandeep Kumar, *International Journal of Biological Macromolecules* (78), 173-179. [doi:10.1016/j.ijbiomac.2015.03.070](https://doi.org/10.1016/j.ijbiomac.2015.03.070) (IF: 6.953)

July 2014 to 30 June 2015

80. Forced convective heat transfer of MWCNT/water nanofluids under constant heat flux: An Experimental Investigation (2015) Munish Gupta, Rajesh Kumar, Neeti Arora, Sandeep

Kumar, and **Neeraj Dilbaghi**, *Arabian Journal for Science and Engineering* (2), 599-609.
[Doi:10.1007/s40430-014-0262-8](https://doi.org/10.1007/s40430-014-0262-8) (IF: 2.205)

81. Zinc oxide nanocones as potential scaffold for the fabrication of ultra-high sensitive hydrazine chemical sensor (2015) Sandeep Kumar, Gaurav Bhanjana, **Neeraj Dilbaghi**, Ahmad Umar, *Ceramics International* (41), 3101-3108.
[doi:10.1016/j.ceramint.2014.10.154](https://doi.org/10.1016/j.ceramint.2014.10.154) (IF: 4.527)
82. Herbicide loaded carboxymethyl cellulose nanocapsules as potential carrier in agrinotechnology (2015) Sandeep Kumar, Gaurav Bhanjana, Amit Sharma, Sarita, M. C. Sidhu, and **Neeraj Dilbaghi**, *Science of Advanced Materials* (7), 1143-1148.
[Doi: http://dx.doi.org/10.1166/sam.2015.2243](http://dx.doi.org/10.1166/sam.2015.2243) (IF: 1.671)
83. Experimental investigation of the convective heat transfer characteristics of TiO₂/distilled water nanofluids under Constant heat flux boundary condition (2015) Munish Gupta, Rajesh Kumar, Neeti Arora, Sandeep Kumar, and **Neeraj Dilbaghi**, *Journal of the Brazilian society of mechanical sciences and engineering* (37), 1347-1356.
[Doi:10.1007/s40430-014-0262-8](https://doi.org/10.1007/s40430-014-0262-8) (IF: 2.122)
84. Fabrication and optimization of silver based PAA/OPH-ZnONP/c-MWCNTs electrode for amperometric determination of organophosphorus compounds (2015) Monika Dahiya, Vikas Dhull, Sandeep Kumar, **Neeraj Dilbaghi**, Vikas Hooda, *Sensor Letters*, (13), 72-80.
doi.org/10.1166/sl.2015.3413
85. Population structure and genetic diversity among Indian wheat varieties using microsatellite (SSR) markers (2014) Apoorva Arora, Sushila Kundu, **Neeraj Dilbaghi**, Indu Sharma, and Ratan Tiwari, *Australian journal of Crop Science* 8 (9), 1281-1289.
86. Multi walled carbon nanotubes as sorbents for removal of crystal violet (2014) Sandeep Kumar, Gaurav Bhanjana, **Neeraj Dilbaghi**, and Ahmad Umar, *Journal of Nanoscience and Nanotechnology* (14), 7054-7059. doi.org/10.1166/jnn.2014.9236
87. Immobilization of Organic Solvent-Tolerant Lipase from *Pseudomonas Mendocino* M-37 with Potential Synthetic Activities (2014) Praveen Dahiya, Subhash Chand, and **Neeraj Dilbaghi**, *Food Technology and Biotechnology* (52), 368-375. (IF 2.115)
88. Synthesis and evaluation of ciprofloxacin-loaded carboxymethyl tamarind kernel polysaccharide nanoparticles (2014) **Neeraj Dilbaghi**, Harmanmeet Kaur, Pooja Arora, Munish Ahuja, and Sandeep Kumar, *Journal of Experimental Nanoscience* (9), 1015-1025.
[Doi: 10.1080/17458080.2013.771244](https://doi.org/10.1080/17458080.2013.771244) (IF: 2.169)
89. A comprehensive review of experimental investigations of forced convective heat transfer characteristics for various nanofluids (2014) Munish Gupta, Neeti Arora, Rajesh Kumar, Sandeep Kumar, and **Neeraj Dilbaghi**, *International Journal of Mechanical and Materials Engineering* (9), 1-14. [Doi: 10.1186/s40712-014-0011-x](https://doi.org/10.1186/s40712-014-0011-x)

1 July 2013 to 30 June 2014

90. Synthesis, characterization and on field evaluation of pesticide loaded sodium alginate nanoparticles (2014) Sandeep Kumar, Gaurav Bhanjana, Amit Sharma, M C Sidhu, and

Neeraj Dilbaghi, *Carbohydrate Polymers* (101), 1061-1067.
[doi:10.1016/j.carbpol.2013.10.025](https://doi.org/10.1016/j.carbpol.2013.10.025) (IF: 9.381)

91. Quinapyraminesulphate-loaded sodium alginate nanoparticles shows enhanced trypanocidal activity (2014) Anju Manuja, Sandeep Kumar, **Neeraj Dilbaghi**, Gaurav Bhanjana, Meenu Chopra, Harmanmeet Kaur, S K Singh, and S C Yadav, *Nanomedicine* (9), 1625-1634. [Doi: 10.2217/nnm.13.148](https://doi.org/10.2217/nnm.13.148) (IF: 5.307)
92. Nanotechnology based water treatment strategies (2014) Sandeep Kumar, Wandit Ahlawat, Gaurav Bhanjana, Solmaz Hyderifard, Mousa N Nazhad, and **Neeraj Dilbaghi**, *Journal of Nanoscience and Nanotechnology* (14), 1838-1858. doi.org/10.1166/jnn.2014.9050 (IF: 1.483)
93. Utilization of carbon nanotubes for the removal of rhodamine B dye from aqueous solutions (2014) Sandeep Kumar, Gaurav Bhanjana, Kavita Jangra, **Neeraj Dilbaghi**, and Ahmad Umar, *Journal of Nanoscience and Nanotechnology* (14), 4331-4336. doi.org/10.1166/jnn.2014.8077
94. Physico-chemical characterization of distillery effluent and COD reduction by using *Bacillus badius* and *Lysinibacillus fusiformis* (2014) Mehta, Jyoti, Anoop Yadav, **Neeraj Dilbaghi**, and Parveen Sharma, *International Journal of Emerging Trends in Science and Technology* (1), 340-346.
95. Removal of anionic dye amido black by multi walled carbon nanotubes (2014) Sandeep Kumar, Gaurav Bhanjana, Rajesh Kumar, and **Neeraj Dilbaghi**, *Journal of Nanoengineering and Nanomanufacturing* (4), 158-163. doi.org/10.1166/jnan.2014.1186
96. Urea biosensor based on zinc oxide/multi-walled carbon nanotubes/chitosan nanocomposite thin films (2014) Suman Verma, Gaurav Bhanjana, **Neeraj Dilbaghi**, Ahmad Umar, and Sandeep Kumar, *Sensors Letters* (12), 50-55.
<https://doi.org/10.1166/sl.2014.3241>
97. Evaluating vegetation indices for precision phenotyping of quantitative stripe rust reaction in wheat (2014) Apoorva Arora, Karnam Venkatesh, Ramesh Kumar Sharma, Mahender Singh Saharan, **Neeraj Dilbaghi**, Indu Sharma, and Ratan Tiwari, *Journal of Wheat Research* (6), 74-80.
98. Engineered multifunctional nanowires as novel biosensing tools for highly sensitive detection (2013) Pooja Arora, Annu Sindhu, **Neeraj Dilbaghi**, and Ashok Chaudhury, *Applied Nanoscience*, (3), 363-372. <https://doi.org/10.1007/s13204-012-0142-4> (IF: 4.604)
99. A functional approach toward xerogel immobilization for encapsulation biocompatibility of Rhizobium toward biosensor (2013) Arora, Pooja, Sunita Sharma, Sib Krishna Ghoshal, **Neeraj Dilbaghi**, and Ashok Chaudhury, *Frontiers in Biology* (8), 626-631. [doi: 10.1007/s11515-013-1286-7](https://doi.org/10.1007/s11515-013-1286-7)
100. Immobilization of urease on TiO₂ chitosan nanohybrid film for development of urea biosensor (2013) Sandeep Kumar, Suman Verma, and **Neeraj Dilbaghi**, *Materials Focus* (2), 443-449. doi.org/10.1166/sl.2014.3241

101. Characterization and Antimicrobial Activity of Nano Titanium (IV) mixed ligand complex (2013) Sandeep Kumar, Gaurav Bhanjana, Rajeev Kumar, and **Neeraj Dilbaghi**, *Materials Focus* (2), 475-481. doi.org/10.1166/mat.2013.1118
 102. Evaluation of tropicamide-loaded tamarind seed xyloglucan nanoaggregates for ophthalmic delivery (2013) **Neeraj Dilbaghi**, Harmanmeet Kaur, Munish Ahuja, and Sandeep Kumar, *Carbohydrate Polymers* (93), 286-291. [doi: 10.1016/j.carbpol.2013.01.054](https://doi.org/10.1016/j.carbpol.2013.01.054) (IF: 9.381)
 103. Preparation and evaluation of enrofloxacin-loaded solid lipid nanoparticles (2013) **Neeraj Dilbaghi**, Harmanmeet Kaur, Munish Ahuja, and Sandeep Kumar, *Journal of Nanoengineering and Nanomanufacturing* (3), 147-153. doi.org/10.1166/jnan.2013.1121
 104. Novel approaches for enhancement of drug bioavailability (2013) Sandeep Kumar, **Neeraj Dilbaghi**, Ruma Rani, Gaurav Bhanjana, and A. Umar, *Reviews in Advanced Sciences and Engineering* (2), 1-22. doi.org/10.1166/rase.2013.1038
 105. Nanoscale devices for veterinary technology: Trends and future prospective (2013) **Neeraj Dilbaghi**, Harmanmeet Kaur, Ritesh Kumar, Pooja Arora, and Sandeep Kumar, *Advanced Materials Letters* (4), 175-184. [doi: 10.5185/amlett.2012.7399](https://doi.org/10.5185/amlett.2012.7399)
 106. Quantifying stripe rust reactions in wheat using a handheld NDVI remote sensor (2013) A. Arora, R. K. Sharma, M. S. Saharan, K. Venkatesh, **N. Dilbaghi**, I. Sharma, and R. Tiwari, In *Proceedings of BGRI2013 Technical Workshop*, 19-22.
 107. Antimicrobial activity of zirconia (ZrO₂) nanoparticles and zirconium complexes (2012) Sant Lal Jangra, K. Stalin, **Neeraj Dilbaghi**, Sandeep Kumar, Jai Tawale, Surinder P. Singh, and Renu Pasricha, *Journal of Nanoscience and Nanotechnology* (12), 7105- 7112. doi.org/10.1166/jnn.2012.6574 (IF: 1.134)
 108. Synthesis, characterization and evaluation of thiolated tamarind seed polysaccharide as a mucoadhesive polymer (2012) Kaur, Harmanmeet, Shikha Yadav, Munish Ahuja, and **Neeraj Dilbaghi**, *Carbohydrate Polymers* (90), 1543-49. doi.org/10.1016/j.carbpol.2012.07.028. (IF: 9.381)
 109. Single walled carbon nanotubes bridged in between gold microelectrodes for electrical characterization (2012) Sandeep Kumar, **Neeraj Dilbaghi**, Rajesh Kumar, and Lalit M Bharadwaj, *Journal of Nanoengineering and Nanomanufacturing* (2), 339-346. doi.org/10.1166/jnan.2012.1093
 110. Biosensors as novel platforms for detections of food pathogens and allergens (2012) Sandeep Kumar, **Neeraj Dilbaghi**, Manju Barnela, Gaurav Bhanjana, and Rajesh Kumar, *BioNanoScience* (2), 196-217. [doi:10.1007/s12668-012-0057-2](https://doi.org/10.1007/s12668-012-0057-2)
 111. Nanotechnology as emerging tool for enhancing solubility of poorly water-solubledrugs (2012) Sandeep Kumar, Ruma Saharan, Gaurav Bhanjana, and **Neeraj Dilbaghi**, *Bio Nanoscience* (2), 227-250. [doi:10.1007/s12668-012-0060-7](https://doi.org/10.1007/s12668-012-0060-7)
- 1 July 2011 to 30 June 2012**
112. Nano-regenerative medicine towards clinical outcome of stem cell and tissue engineering in humans (2012) Pooja Arora, Annu Sindhu, **Neeraj Dilbaghi**, Ashok

- Chaudhury, Govindasamy Rajakumar, and Abdul Abdul Rahuman *Journal of Cellular and Molecular Medicine*, (16), 1991-2000. [doi: 10.1111/j.1582-4934.2012.01534.x](https://doi.org/10.1111/j.1582-4934.2012.01534.x) (IF:5.310).
113. Carboxymethyl tamarind kernel polysaccharide nanoparticles for ophthalmic drug delivery (2012) Harmanmeet Kaur, Munish Ahuja, Sandeep Kumar, and **Neeraj Dilbaghi**, *International Journal of Biological Macromolecules* (50), 833-839. [doi: 10.1016/j.ijbiomac.2011.11.017](https://doi.org/10.1016/j.ijbiomac.2011.11.017) (IF: 6.953)
 114. Comparative study of leaching of silver nanoparticles from fabric and effective effluent treatment (2012) Aneesh Pasricha, Sant Lal Jangra, Nahar Singh, **Neeraj Dilbaghi**, K. N. Sood, Kanupriya Arora, and Renu Pasricha, *Journal of Environmental Sciences* (24), 852-859. [doi.org/10.1016/S1001-0742\(11\)60849-8](https://doi.org/10.1016/S1001-0742(11)60849-8) (IF: 5.565)
 115. Opportunistic invasive fungal pathogen *Macrophomina phaseolina* prognosis from immunocompromised humans to potential mitogenic RBL with an exceptional and novel antitumor and cytotoxic effect (2012) P. Arora, **N. Dilbaghi**, and A. Chaudhury, *A. European Journal of Clinical Microbiology & Infectious Diseases* (31), 101-107. DOI: [10.1007/s10096-011-1275-1](https://doi.org/10.1007/s10096-011-1275-1) (IF: 3.155)
 116. Detection of double stranded RNA in phytopathogenic *Macrophomina phaseolina* causing charcoal rot in *Cyamopsis tetragonoloba* (2012) Pooja Arora, **Neeraj Dilbaghi**, and Ashok Chaudhury, *Molecular Biology Reports* (39), 3047-3054. [doi: 10.1007/s11033-011-1067-9](https://doi.org/10.1007/s11033-011-1067-9) (IF: 1.402).
 117. Biological Nitrogen Fixation: Host-Rhizobium Interaction (2012) Arora, Pooja, Rakesh Yadav, **Neeraj Dilbaghi**, and Ashok Chaudhury, *Frontiers on Recent Developments in Plant Science* (1), 39-59.
 118. Comparative investigation of cellular response of nanoparticles (2012) Sandeep Kumar, Gaurav Bhanjana, **Neeraj Dilbaghi**, and Anju Manuja, *Advanced Materials Letters* (3), 345-349. [doi: 10.5185/amlett.2012.5342](https://doi.org/10.5185/amlett.2012.5342)
 119. Biosensors as innovative tools for the detection of food borne pathogens (2011) Pooja Arora, Annu Sindhu, **Neeraj Dilbaghi**, and Ashok Chaudhury, *Biosensors and Bioelectronics* (28), 1-12. <https://doi.org/10.1016/j.bios.2011.06.002> (IF:10.257)
 120. An overview of transducers as platform for the rapid detection of foodborne pathogens (2013) Arora, Pooja, Annu Sindhu, Harmanmeet Kaur, **Neeraj Dilbaghi**, and Ashok Chaudhury, *Applied Microbiology and Biotechnology* (97), 1829-1840. [doi: 10.1007/s00253-013-4692-5](https://doi.org/10.1007/s00253-013-4692-5). (IF: 3.53)
 121. Characterization of an extracellular alkaline lipase from *Pseudomonas mendocina* M-37 (2010) Praveen Dahiya, Pooja Arora, Ashok Chaudhury, Subhash Chand, and **Neeraj Dilbaghi**. *Journal of Basic Microbiology* (50), 420-426. [https://doi: 10.1002/jobm.200900377](https://doi.org/10.1002/jobm.200900377) (IF: 1.909)
 122. Optimization of process variables for decolorization of Disperse Yellow 211 by *Bacillus subtilis* using Box–Behnken design (2009) Praveen Sharma, Lakhvinder Singh,

- and **Neeraj Dilbaghi**, *Journal of Hazardous Materials*, (164), 1024-1029. <https://doi.org/10.1016/j.jhazmat.2008.08.104> (IF: 9.038)
123. Response surface methodological approach for the decolorization of simulated dye effluent using *Aspergillus fumigatus* Fresenius (2009) Praveen Sharma, Lakhvinder Singh, and **Neeraj Dilbaghi**, *Journal of Hazardous Materials* (161), 1081-1086. <https://doi.org/10.1016/j.jhazmat.2008.04.085> (IF: 9.038)
124. High frequency direct plant regeneration from leaf, internode, and root segments of Eastern Cottonwood (*Populus deltoides*) (2009) Rakesh Yadav, Pooja Arora, Dharmendar Kumar, Dinesh Katyal, **Neeraj Dilbaghi**, and Ashok Chaudhury, *Plant Biotechnology Reports* (3), 175-182. <https://doi.org/10.1007/s11816-009-0088-5> (IF: 1.462)
125. Study of Optical properties of *Macrophomina phaseolina* impregnated sol-gel derived silica matrices (2009) Sunita Sharma, S. K. Ghoshal, Pooja Arora, **Neeraj Dilbaghi**, and Ashok Chaudhury, *Applied Biochemistry and Biotechnology (Humana press)* (159), 310-316. <https://doi.org/10.1007/s12010-008-8323-z>
126. Molecular Genotyping of *Macrophomina phaseolina* Isolates: Comparison of Microsatellite Primed PCR and Repetitive Element Sequence-based PCR (2008) S. Purkayastha, B. Kaur, P. Arora, I. Bisyer, **Neeraj Dilbaghi** and A. Chaudhury, *Journal of Phytopathology*, 156, 372–381. <https://doi.org/10.1111/j.1439-0434.2007.01384.x> (IF: 1.179)
127. Enrichment of vermicomposts prepared from cow dung spiked solid textile mill sludge using nitrogen fixing and phosphate solubilizing bacteria (2008) Kaushik, Priya, Y. K. Yadav, **Neeraj Dilbaghi**, and Vinod K. Garg, *The Environmentalist* (28), 283-287. <https://doi.org/10.1007/s10669-007-9141-5>
128. Agrobacterium-Mediated Genetic Transformation of Tomato for Enhanced Salt Tolerance (2008) Bansal, M., P. Gaurva, P. Sharmila, P. Pardha Saradhi, **Neeraj Dilbaghi**, and A. Chaudhary, *ICFAI Journal of Biotechnology* 2, 34-51.
129. Isolation and Characterization of an Extracellular Lipase from *Pseudomonas aeruginosa* M-13 (2007) P. Dahiya, A. Chaudhury, S. Chand, and **Neeraj Dilbaghi**. *Annals of Biology* (23), 103.
130. Genotypic variation in callus induction and regeneration of five popular varieties of rice grown in Haryana (2007) P. R. Gaurva, M. O. Bansal, P. Sharmila, P. P. Saradhi, **Neeraj Dilbaghi**, and A. Chaudhury, *Annals of Agri Bio Research* (12), 107.
131. Characterization of Myostatin Gene and Identification of SNPs for Diversity Analysis (2007) ST Bharani Kumar, **Neeraj Dilbaghi**, S. P. S. Ahlawat, Bina Mishra, M. S. Tania, and R. K. Vijh, *Current Trends in Biotechnology and Pharmacy* (1), 70-78.
132. High frequency plant regeneration from cotyledonary explants of tomato (*Lycopersicon esculentum* Mill.) cv. Pusa Ruby (2007) Bansal, M., P. Gaurva, P. Sharmila, P. P. Saradhi, **Neeraj Dilbaghi**, and A. Chaudhury, *Annals of Agri Bio Research* (12), 101.
133. Vermiconversion of wastewater sludge from textile mill mixed with anaerobically digested biogas plant slurry employing *Eisenia foetida* (2006) V. K. Garg, Priya Kaushik,

- and **Neeraj Dilbaghi**, *Ecotoxicology and Environmental Safety* (65), 412-419. <https://doi.org/10.1016/j.ecoenv.2005.03.002> (IF: 4.872)
134. Characterization of *Macrophomina phaseolina*, the charcoal rot pathogen of cluster bean, using conventional techniques and PCR-based molecular markers (2006) S. Purkayastha, B. Kaur, **Neeraj Dilbaghi**, and A. Chaudhury, *Plant pathology* (55), 106-116. <https://doi.org/10.1111/j.1365-3059.2005.01317.x> (IF: 2.169)
 135. Probiotics: Microbial therapy for health modulation (2006) Ajay Kumar Goel, **Neeraj Dilbaghi**, Dev Vrat Kamboj, and Lokendra Singh, *Defence science journal* (56) 513. <https://doi.org/10.14429/dsj.56.1917> (IF: 0.73)
 136. Evaluation of cluster bean genotypes for resistance to charcoal rot caused by *Macrophomina phaseolina* using different host inoculation methods (2006) Sharmishtha Purkayastha, Bhavneet Kaur, **Neeraj Dilbaghi**, and Ashok Chaudhury. *Journal of Crop Improvement* (15), 67-79. doi.org/10.1300/J411v15n01_06
 137. Characterization of *Xanthomonas axonopodis* pv. *cymopsisidis*, the Bacterial Blight Pathogen of Cluster Bean Using PCR-based Molecular Markers. (2005) B Kaur, S. Purkayastha, **Neeraj Dilbaghi**, & A. Chaudhury, *Journal of phytopathology*, 153(7-8), 470-479. [doi: 10.1111/j.1439-0434.2005.01005.x](https://doi.org/10.1111/j.1439-0434.2005.01005.x) (IF: 1.179)
 138. Beneficial effects of probiotics and prebiotics on human health (2005) S. G. Vijaya Kumar, S. K. Singh, P. Goyal, **Neeraj Dilbaghi**, and D. N. Mishra, *Die Pharmazie-An International Journal of Pharmaceutical Sciences* (60), 163-171.
 139. Evaluation of Clusterbean Genotypes for Resistance to Bacterial Blight (2004) B. Kaur, S. Purkayastha, **Neeraj Dilbaghi**, and A. Chaudhury, *Annals of Agri Bio Research* (9), 213-215.
 140. Cultural and pathogenic variation in the charcoal rot pathogen from clusterbean (2004) Sharmishtha Purkayastha, Bhavneet Kaur, **Neeraj Dilbaghi**, and Ashok Chaudhury, *Annals of Agri Bio Research* (9), 217-221.
 141. Studies on cultural characteristics and nitrogen assimilation in *Macrophominaphaseolina* infecting cluster bean (*Cyamopsis tetragonoloba*). Plant pathogen genomics from sequence to application (2003) S. Purkayastha, B. Kaur, **Neeraj Dilbaghi**, J. B. Power, M. R. Davey, and A. Chaudhury, In *Proc of the British Soc for Plant Pathol, Presidential Meeting, Nottingham, UK*.
 142. Fermentation of soymilk by selected strains of *Lactobacillus acidophilus* (2003) Bijender K. Bajaj, Hemlata Mangla, **Neeraj Dilbaghi**, and Ram L. Thakur, *Indian Journal of Microbiology* (43), 247-251. (IF: 2.259)
 143. Influence of bile salts on growth, antimicrobial activity and β -galactosidase activity of *Lactobacillus acidophilus* (2002) **Neeraj Dilbaghi**, and S. Sharma, *Indian journal of dairy science* (55), 89-92.
 144. Decolourization and COD removal from digested distillery spent wash by *Pseudomonas* spp (2002) **Neeraj Dilbaghi**, K. Kumar, V. K. Garg, B. S. Saharan, and D. Singh, *Indian Journal of Environmental Protection* (22), 43-51.

145. Optimization of Medium Conditions for the Production of Bacteriocin-SN21 by *Lactobacillus acidophilus* (1998) B. S. Saharan, **Neeraj Dilbaghi**, and S. Sharma, *Indian Journal of Microbiology* (38) 225-227. (IF: 2.259)
146. Pretreatment of sugarcane molasses for ethanol production by yeast (1997) A. Yadav, **Neeraj Dilbaghi**, and S. Sharma, *Indian Journal of Microbiology* (37), 37-40. (IF: 2.259)
147. Protoplast fusion between *Saccharomyces cerevisiae* and *Saccharomyces diastaticus* for ethanol production from starch (1994) H. Grewal, **Neeraj Dilbaghi**, and S. Sharma, *Annals of Biology* (10), 80-85.