

**Dr. Neeraj K Aggarwal (Ph.D.)**  
**Chairman & Professor**  
**Department of Microbiology**  
**Kurukshetra University, Kurukshetra, (Haryana) India**



Career Objective	<b>Research and Teaching</b>
Highest Qualification	Doctor of Philosophy in Microbiology (Major) Biotechnology (Minor) C.C.S. Haryana Agricultural University, Hissar INDIA Ph.D. Thesis Title: <b>“Glucosylase production from fungi for saccharification of starchy substrates”</b> .
Present Position	Presently working as Professor & Chairman in Department of Microbiology, Kurukshetra University Kurukshetra
Career Graph/Experiences	17 years Teaching (Post Graduate) and Research Experience after PhD
Professional recognition, awards, Fellowships received	Recipient of <b>CSIR-Senior Research Fellowship</b> Awarded <b>ICAR- Senior Research Fellowship</b> Awarded <b>CSIR- Junior Research Fellowship JRF</b> <b>GATE qualifier</b> Recipient of <b>S. R. Vyas Gold Medal</b> for being the best microbiology researcher <b>University Topper during M. Sc (Microbiology)</b> <b>Awarded Summer Research fellowship ( NASI-INSA)</b> Life member, Association of Microbiologists of India (AMI) Life member, Indian Science Congress Life member, Mycological society of India(MSI) Member of American society of Microbiology (ASM)
Publications/Presentations in Seminars (List attached)	<ul style="list-style-type: none"> <li>▶ Original Research Paper 130</li> <li>▶ Book National 01</li> <li>▶ Book International Publishers 04</li> <li>▶ Review articles 12</li> <li>▶ Book Chapter 13</li> <li>▶ Research Projects 04</li> <li>▶ Patents filed and Published 01</li> <li>▶ Research abstracts published in National and International Proceeding 27</li> </ul>
Citation On 05-04-2023	Google Scholar Citation 2627 h-index 25 i10 index 45

## Research Publications of Dr Neeraj Kumar

S.No.	Publications
130	Kumar, N., Yadav, A., Singh, G., Singh, A., Kumar, P., & <b>Aggarwal, N. K.</b> (2023). Comparative study of ethanol production from sodium hydroxide pretreated rice straw residue using <i>Saccharomyces cerevisiae</i> and <i>Zymomonas mobilis</i> . <i>Archives of Microbiology</i> , 205(4), 146.
129	Mittal, M., Bhuwal, A., Sharma, P., & <b>Aggarwal, N. K.</b> (2023). Utilization of pulp and paper industrial wastewater for production of polyhydroxybutyrate by <i>Bacillus sonorensis</i> NAM5. <i>Systems Microbiology and Biomanufacturing</i> , 1-14.
128	Mittal, M., Ahuja, S., Yadav, A., & <b>Aggarwal, N. K.</b> (2023). Development of poly (hydroxybutyrate) film incorporated with nano silica and clove essential oil intended for active packaging of brown bread. <i>International Journal of Biological Macromolecules</i> , 233, 123512.
127	Naveen Kumar, Ritu Sharma, <b>Neeraj K Aggarwal</b> , and Anita Yadav. (2023). <i>Parthenium hysterophous</i> weed as a novel substrate for B –glucosidase production by <i>Penicillium citrinum</i> NAF5: Application of the crude extract to biomass saccharification. <i>Letters in Applied Nanobioscience</i> .12(1). 13 <a href="https://doi.org/10.33263/LIANBS121.013">https://doi.org/10.33263/LIANBS121.013</a>
126	Naveen Kumar, Mahak Mittal, <b>Neeraj K Aggarwal</b> , and Anita Yadav. (2022). Evaluation of autoclave assisted sulphuric acid catalysed pretreatments for the liberation of reducing sugars from <i>Parthenium hysterophous</i> : a response surface approach. <i>International Journal of Sustainable Energy</i> . DOI: 10.1080/14786451.2022.2067161
125	Amit Sharma, Anita Dhanda, Pushpender Bhardwaj, Anita Yadav, <b>Neeraj K Aggarwal</b> . (2022). Phytochemical, antimicrobial, antioxidant, antigenotoxic and antimutagenic efficacy of <i>Catharanthus roseus</i> leaves by different extracts. <i>Research Journal of Biotechnology</i> .17(7):48-56.
124	Kiran Devi, Imteyaz Ahmad, <b>Neeraj K Aggarwal</b> , Anita Yadav, and Ranjan Gupta. (2022). Association study of <i>KCNQ1</i> gene rs2237892(C/T) SNP with cardiovascular diseases in Indian population. <i>Human gene</i> .33:201047.
123	Amit Sharma, Anita Dhanda, and <b>Neeraj K Aggarwal</b> . (2021). <i>In vitro</i> analysis of different extracts of <i>Carica papaya</i> (leaves) and their phytochemical constituents ,antibacterial activity and antioxidant activity. <i>Advances in Bioresearch</i> .12(3). DOI: 10.15515/abr.0976-4585.12.4.192198
122	Mahak Mittal & <b>Neeraj K Aggarwal</b> . (2021). Plastic accumulation during pandemic of COVID-19. <i>HGPI International Journal of Multidisciplinary Research and Development</i> .2:36-38. <a href="https://doi.org/10.1007/s11356-021-17792-w">https://doi.org/10.1007/s11356-021-17792-w</a>
121	Anita Dhanda, Amit Sharma and <b>Neeraj K Aggarwal</b> . (2021). Isolation and <i>in vitro</i> antibacterial activity of lactic acid bacteria from cow dung. <i>Advances in Bioresearch</i> .12(3). DOI: 10.15515/abr.0976-4585.12.4.216222
120	V. Vishwakarma, S. Kumar, B. Yadav , <b>Neeraj K. Aggarwal</b> , R. Gupta, & A . Yadav (2021) . Protective efficacy of andrographolide against nickel induced sister chromatid exchanges in human lymphocytes. <i>Research Journal of Biotechnology</i> .16(4).1-5.
119	K. Miglani, S. Kumar, A. Yadav, <b>Neeraj K. Aggarwal</b> , & R. Gupta (2021) OGG1 DNA Repair Gene Polymorphism as a Biomarker of oxidative and Genotoxic DNA Damage. <i>Iranian Biomedical Journal</i> 25(1):47-53 IF-2.2 DOI: 10.29252/ibj.25.1.47
118	V. Vishwakarma, S. Kumar, B. Yadav, <b>Neeraj K. Aggarwal</b> , R. Gupta, & A. Yadav, (2021) . Antigenotoxic effects of silymarin against nickel chloride mediated DNA

	damage in cultured human peripheral blood lymphocytes. <i>International Journal of Pharmaceutical Sciences and Research</i> . 12(10):1000-1008. DOI link: <a href="http://dx.doi.org/10.13040/IJPSR.0975-8232.12(10).5431-38">http://dx.doi.org/10.13040/IJPSR.0975-8232.12(10).5431-38</a>
117	Pushpender Bhardwaj, Avilekh Naryal, Mohan Singh Thakur, <b>Neeraj K. Aggarwal</b> , Shweta Saxena, Om Prakash Chaurasia, Raj Kumar.(2020). Comparative antioxidant, antibacterial and GC-MS analysis of methanol extract fractions and isolations of luteolin from leaves of trans –himalyan <i>Codonopsis clematidea</i> . <i>Industrial Crops and Products</i> .144-112046. <a href="https://doi.org/10.1016/j.indcrop.2019.112046">https://doi.org/10.1016/j.indcrop.2019.112046</a>
116	S. Kumar, B. Yadav, V. Vishwakarma, <b>Neeraj K. Aggarwal</b> , R. Gupta, & A.Yadav, (2020) Evaluation of Antigenotoxic potential of Beet Root extract against hair dye induced genotoxicity in cultured human blood lymphocytes. <i>International journal of pharmaceutical Sciences and Research</i> , 11(4)-1874-1878. DOI: 10.13040/IJPSR.0975-8232.11(4).1874-78
115	S. Kumar, B. Yadav, V. Vishwakarma, <b>Neeraj K. Aggarwal</b> , R. Gupta, & A.Yadav, Antigenotoxic effects of epigallocatechingallate against hair dye induced genotoxicity in cultured human blood lymphocytes. <i>J of Biologically active Products</i> , 10(2),141-152. <a href="https://doi.org/10.1080/22311866.2020.1764866">https://doi.org/10.1080/22311866.2020.1764866</a>
114	K. Miglani, S. Kumar, A. Yadav, <b>Neeraj K. Aggarwal</b> , I. Ahmad, & R. Gupta, (2019). A multi-biomarker approach to evaluate the effect of polyaromatic hydrocarbon exposure on oxidative and genotoxic damage in tandoor workers. <i>Toxicology and industrial health</i> , 35(7), 486-496. 1. <a href="https://doi.org/10.1177/0748233719862728">10.1177/0748233719862728</a>
113	B. Yadav, V. Vishwakarma, S. Kumar, <b>Neeraj K. Aggarwal</b> , R. Gupta, & A. Yadav. (2019). Antigenotoxic effects of morin against lead induced genomic damage in cultured human peripheral blood lymphocytes. <i>Journal of Food Biochemistry</i> , e12883.
112	Romika Dhiman and <b>Neeraj K Aggarwal</b> . (2019). Preservative efficacy of <i>Illicium verum</i> hook in fruit juices. <i>Defence Life Science Journal</i> .4:266-270. DOI : <a href="https://doi.org/10.14429/dlsj.4.15142">10.14429/dlsj.4.15142</a>
111	N. Verma, A. Yadav, S. Bal, R. Gupta, & <b>Neeraj K. Aggarwal</b> . (2019). In Vitro Studies on Ameliorative Effects of Limonene on Cadmium-Induced Genotoxicity in Cultured Human Peripheral Blood Lymphocytes. <i>Applied biochemistry and biotechnology</i> , 187(4), 1384-1397. DOI <a href="https://doi.org/10.1007/s12010-018-2881-5">10.1007/s12010-018-2881-5</a>
110	N. Verma, S. Bal, R. Gupta, <b>Neeraj K. Aggarwal</b> , & A. Yadav, (2018). Antioxidative effects of piperine against cadmium-induced oxidative stress in cultured human peripheral blood lymphocytes. <i>Journal of dietary supplements</i> , 1-12.
109	Parveen Surain and <b>Neeraj K Aggarwal</b> (2019). Epidemiology of Oral and Vaginal Candidiasis. <i>International Journal of Science and Research</i> . 8(4):422-24.
108	Parveen Surain and <b>Neeraj K Aggarwal</b> (2019). <i>Zingiber officinale</i> : Clinical aspects for treatment of <i>Candida</i> infections. <i>International Journal of Scientific and Research Publications</i> . 9(4). DOI: <a href="https://doi.org/10.29322/IJSRP.9.03.2019.p8868">10.29322/IJSRP.9.03.2019.p8868</a>
107	Anita Saini and <b>Neeraj K. Aggarwal</b> .(2019). Saccharification of <i>Parthenium hysterophorus</i> biomass using cellulases from <i>Streptomyces</i> sp NAA2. <i>Annals of Microbiology</i> . <a href="https://doi.org/10.1007/s13213-019-01459-6">https://doi.org/10.1007/s13213-019-01459-6</a>
106	Anita Saini and <b>Neeraj K. Aggarwal</b> .(2019). Valorization of <i>Parthenium hysterophorus</i> biomass by its utilization in endoglucanase production by <i>Penicillium citrinum</i> NAF5. <i>Waste and Biomass Valorization</i> <a href="https://doi.org/10.1007/s12649-019-00602-3">https://doi.org/10.1007/s12649-019-00602-3</a>

105	Anita Saini and <b>Neeraj K. Aggarwal</b> .(2018). Enhanced endoglucanase production by soil inhabiting <i>Streptomyces</i> sp. strain NAA9 using lignocellulosic biomass. Energy Sources,Part A: Recovery, Utilization, and Environmental Effect
104	Neha Verma, Anita Yadav, Surbhi Bal, Ranjan Gupta and <b>Neeraj K Aggarwal</b> (2019). In vitro studies on ameliorative effects of limonene on cadmium –induced genotoxicity in cultural human peripheral blood lymphocytes. Applied biochemistry and biotechnology. 187(4):1384-1397. <a href="https://doi.org/10.1007/s12010-018-2881-5">https://doi.org/10.1007/s12010-018-2881-5</a>
103	Surbhi Bal, Anita Yadav, Neha Verma, <b>Neeraj K. Aggarwal</b> , Ranjan Gupta. (2018). Protective role of eugenol on arsenic induced oxidative DNA damage and modulatory effect of GST02 polymorphism. Journal of food biochemistry.42(5): e12565. DOI: 10.1111/jfbc.12565.
102	Surbhi Bal, Anita Yadav, Neha Verma, Ranjan Gupta, Neeraj K Aggarwal. (2018). Shielding effect of anethole against arsenic induced genotoxicity in cultured human peripheral blood lymphocytes and effects of GST01 polymorphism. 3 Biotech 8(5):232 DOI: 10.1007/s13205-018-1263-6
101	Manpreet Kaur, <b>Neeraj K Aggarwal</b> and Vijay Kumar. (2017). Survey on the infestation of <i>Parthenium</i> weed and occurrence of insect and mycobiota on the weed in India. International Journal of Science and Technology.12:79-98
100	Manpreet Kaur and <b>Neeraj K Aggarwal</b> . (2017). Enzymatic activities of pathogenic species of <i>Alternaria</i> , isolated from Parthenium. Indian Journal of Weed Science. 49(2):207-210 DOI: 10.5958/0974-8164.2017.00055.7
99	Sachin Gulati, Anita Yadav, Neeraj Kumar, Kanupriya, <b>Neeraj K Aggarwal</b> , and Ranjan Gupta (2018). Phenotypic and genotypic characterization of antioxidant enzyme system in human population exposed to radiation from mobile towers. Molecular and Cellular Biochemistry.440(1-2):1-9.DOI: 10.1007/s11010-017-3150-6.
98	Devender Kumar, Priyanka Nehra, Dolly Wattal Dhar and <b>Neeraj K Aggarwal</b> (2017). Gas chromatography-Mass spectrometry analysis of total lipids and fatty acid content of <i>Spirulina/Arthrospira</i> . Strains. International Journal of Biochemistry.199 :537-543.
97	Devender Kumar, <b>Neeraj K Aggarwal</b> , Priyanka Nehra, Dolly Wattal Dhar. (2017). Similarity analysis of <i>Spirulina</i> strains on the basis of Phycocyanin operon locus (cpcB-IGS-cpcA) and 16S rRNA gene sequences. Indian Journal of Biotechnology. 16:84-90
96	<b>Neeraj K Aggarwal</b> , Varsha Goyal, Anita Saini, Anita Yadav and Ranjan Gupta. (2017). Enzymatic saccharification of pre-treated rice straw by cellulases from <i>Aspergillus niger</i> BK01. 3Biotech.7(3):1-10. DOI 10.1007/s13205-017-0755-0
95	Anita Saini, <b>Neeraj K Aggarwal</b> and Anita Yadav. (2017). Cost effective cellulose production using <i>Parthenium hysterophous</i> as an unconventional lignocellulosic substrate. 3Biotech.7(1):1-12. DOI 10.1007/s13205-017-0604-1
94	Anita Saini, <b>Neeraj K Aggarwal</b> , and Anita Yadav. (2017). Isolation and screening of cellulose hydrolyzing bacteria from different ecological niches. Bioengineering and Biosciences: 5(1):7-13. DOI: 10.13189/bb.2017.050102
93	Neha Verma, Surbhi Bal, Anita Yadav, <b>Neeraj K Aggarwal</b> and Ranjan Gupta (2017). Studies on Antigenotoxic effects of piperine using sister chromatids exchange assay. Annals of Agri bio Research.22(2):127-130.
92	Surbhi Bal, Anita Yadav, Neha Verma Neeraj K Aggarwal and Ranjan Gupta (2017). Ameliorative effect of Eugenol and anethole on arsenic induced oxidative DNA damage in cultured human peripheral blood lymphocytes. International Journal of

	Pharmaceutical Science and Drug Research9(3): 134-138. DOI <a href="https://doi.org/10.25004/IJPSDR.2017.090306">https://doi.org/10.25004/IJPSDR.2017.090306</a>
91	Anuja Sharma, <b>Neeraj K Aggarwal</b> , and Anita Yadav (2017). Isolation and screening of lignolytic fungi from various ecological niches. <i>Universal Journal of Microbiology Research</i> ; 5(2): 25-34, 2017. DOI: 13189/ujmr. 2017.
90	Anuja Sharma, <b>Neeraj K Aggarwal</b> , and Anita Yadav. (2016). First report of lignin peroxidase production from <i>Alternaria alternata</i> ANF238 isolated from rotten wood sample. <i>Bioengineering and Biosciences</i> : 4(5):76-87. DOI: 10.13189/bb.2016.040502.
89	Anuja Sharma, Anita Saini, <b>Neeraj K Aggarwal</b> , and Anita Yadav. (2016). Enhanced production of laccase by <i>Phanerochaete chrysosporium</i> NCIM1197 using water hyacinth as a lignocellulosic substrate. <i>Journal of Microbiology and Biotechnology Research</i> : 6(5): 6-12.
88	Anita Saini, <b>Neeraj K Aggarwal</b> , and Anita Yadav. (2016). Cellulolytic potential of Actinomycetes isolated from different habitats. <i>Bioengineering and Biosciences</i> : 4(5):88-94. DOI.org/10.1155/2014/758942.
87	Vikas Kumar, <b>Neeraj K Aggarwal</b> , K R Aneja and Manpreet Kaur. (2016). <i>Gibbago trianthemae</i> , phaeodictyoconidial genus, cause leaf spot disease of <i>Trianthema portulacastrum</i> . <i>Archives of phytopathology and plant protection</i> .49(1-4):48-58 DOI: 10.1080/03235408.2016.1152066.
86	Manpreet Kaur and <b>Neeraj K Aggarwal</b> . (2016). Biocontrol potential of <i>Alternaria</i> sp. PMK2, against a devastating weed: <i>Parthenium hysterophous</i> L. <i>International Journal of Pest Management</i> .63(1):47-53. DOI: 10.1080/09670874.
85	Kamalneet Kaur, Vinod Kumar, Vikas Beniwal, Vikas Kumar, <b>Neeraj K. Aggarwal</b> , Vishal Sharma, Sundeep Jaglan. (2016). Synthesis of some novel oxazolidinone-thiazole hybrids as potential antimicrobial, antioxidant and UV mediated DNA damage protecting agents. <i>Medicinal Chemistry Research</i> , <b>25(10)</b> : 2237-2249. DOI 10.1007/s00044-016-1663-2
84	Parveen Surain, <b>Neeraj K Aggarwal</b> , Romika Dhiman and Meashi V. (2016). <i>Santalum album</i> : clinical aspect for treatment of Candida infections. <i>International Journal of Pharmaceutical Science Research</i> . 7(7): 2813-2829.
83	Manpreet Kaur and <b>Neeraj K Aggarwal</b> . (2016). First report of <i>Alternaria</i> sp PMK1: causative agent of leaf spot disease on <i>Parthenium</i> weed. <i>Biocontrol Science and Technology</i> .26:3,432-434. DOI: 10.1080/09583157.2015.1118614.
82	Manpreet Kaur, <b>Neeraj K Aggarwal</b> and Romika Dhiman. (2016). Antimicrobial activity of Medicinal plant: <i>Parthenium hysterophous</i> L. <i>Research Journal of Medicinal Plant</i> . 10(1): 106-112.
81	Manpreet Kaur, <b>Neeraj K Aggarwal</b> and Romika Dhiman. (2016). Screening of Phytotoxicity of <i>Alternaria macrospora</i> MKP1 against <i>Parthenium hysterophous</i> L. <i>Archives of Phytopathology and plant protection</i> . 48(17-20):890-897. DOI: 10.1080/03235408.2016.1140567.
80	Manpreet Kaur, <b>Neeraj K Aggarwal</b> , Anita Yadav and Ranjan Gupta. (2016). Evaluation of ligninolytic activity of fungal pathogens isolated from <i>Parthenium</i> weed. <i>Advances in Zoology and Botany</i> .4(2):23-29.
79	Romika Dhiman, <b>Neeraj K Aggarwal</b> , K R Aneja and Manpreet Kaur. (2016). <i>In vitro</i> antimicrobial activity of spices and medicinal herbs against selected microbes associated with juices. <i>International Journal of Microbiology</i> . Doi:10.1155/2016/9015802.

78	Vanita Goel, Sonika, <b>Neeraj K Aggarwal</b> and Rajesh Malhotra. (2016). Template synthesis ,characterization and biological activity of Macrocyclic Transition metal complexes. <i>Asian Journal of Chemistry</i> .28(10):2311-2314.
77	Kanika Miglani, Imteyaz Ahmed, Anita Yadav, <b>Neeraj K Aggarwal</b> and Ranjan Gupta (2016). Evaluation of oxidative damage and antioxidant defence potential in Charcoal workers exposed to polyaromatic hydrocarbons. <i>International Journal of Current Research</i> 8(7): 35454-35463
76	Neeraj Kumar, Anita Yadav, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2016). Protective effect of <i>Ocimum sanctum</i> plant extract against DNA damage induced by Malathion in cultured human peripheral blood lymphocytes. <i>International Journal of Current Microbiology and Applied Sciences</i> 5(5): 840-847.
75	Neeraj Kumar, Anita Yadav, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2016). Protective effect of <i>Withania somnifera</i> (Ashwgandha) extract against DNA damage induced by Hydrogen Peroxide in cultured human peripheral blood lymphocytes. <i>International Journal of Current Microbiology and Applied Sciences</i> 5(4): 713-719.
74	Neeraj Kumar, Anita Yadav, Sachin Gulati, Kanupriya, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2016). Effects of GST polymorphism on ameliorative effect of curcumin and carvacrol against DNA damage induced by combined treatment of malathion and parathion. <i>Iranian Journal of Toxicology</i> 10(3): 19-27.
73	Manpreet Kaur and <b>Neeraj K Aggarwal</b> . (2015). First record of <i>Alternaria macrospora</i> MKP1 causing leaf spot disease on <i>Parthenium hysterophous</i> from India. <i>Journal of Crop Protection</i> . 4 (Supplementary):719-726.
72	Manpreet Kaur and <b>Neeraj K Aggarwal</b> . (2015). First report of <i>Trichoconiella padwickii</i> causing leaf spot disease on <i>Parthenium</i> weed. <i>Journal of plant pathology</i> .97(1) 209-220. DOI: 10.4454/jpp.v97I1.040.
71	Manpreet Kaur and <b>Neeraj K Aggarwal</b> . (2015). Effect of different temperature on growth of <i>Alternaria macrospora</i> isolated from <i>Parthenium</i> weed. <i>Plant Sciences Feed</i> . 5(3): 50-54.
70	Manpreet Kaur, <b>Neeraj K Aggarwal</b> . (2015). Biocontrol potential of four deadly strains of <i>Alternaria macrospora</i> isolated from <i>Parthenium</i> weed. <i>Plant pathology journal</i> .14(2):72-78. DOI: 10.3923/ppj.2015.
69	Romika Dhiman, <b>Neeraj K Aggarwal</b> and Manpreet Kaur. (2015). Comparative evaluation of antimicrobial activities of commonly used Indian spices against microbes associated with juices. <i>Research Journal of Microbiology</i> . 10(4): 170-180.
68	Romika Dhiman, <b>Neeraj K Aggarwal</b> K R Aneja, Manpreet Kaur and Vikas Kumar (2015). In vitro antimicrobial activity and phytochemical studies of <i>Terminalia chebula</i> against the microbes isolated from fruit juices. <i>Journal of Microbiology Biotechnology and Food Sciences</i> . Doi:10.15414/jmbfs.2015/16.5.3.243-247.
67	Manpreet Kaur and <b>Neeraj K Aggarwal</b> . (2015). First report of <i>Alternaria</i> sp. Causing leaf blight disease on <i>Parthenium</i> weed in India. <i>New Disease Report BSPP</i> .31:25. DOI .org/10.5197/j.2044-0588.2015.031.025.
66	Manpreet Kaur and <b>Neeraj K Aggarwal</b> . (2015). Comparative evaluation of phytotoxicity of <i>Alternaria macrospora</i> isolates,potential biocontrol agent against <i>Parthenium</i> weed.. <i>Reseach Journal of Botany</i> .10(1):14-21.
65	Sachin Gulati, Anita Yadav, Neeraj Kumar, Kanupriya, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2015). Effect of GSTM1 and GSTT1 Polymorphisms on Genetic Damage in Humans Populations Exposed to Radiation From Mobile Towers. <i>Archives of Environmental Contamination and Toxicology</i> , DOI: 10.1007/s00244-015-0195-y.

64	Neeraj Kumar, Anita Yadav, Sachin Gulati, Kanupriya, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2015). Antigenotoxic potential of curcumin and carvacrol against malathion-induced DNA damage in cultured human peripheral blood and its relation to GSTM1 and GSTT1 polymorphism. <i>Biomarkers and genomic medicines</i> . 7: 98-104.
63	Neeraj Kumar, Anita Yadav, Sachin Gulati, Kanupriya, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2015). In vitro studies on modulatory effects of nutraceuticals and gene polymorphisms on organophosphate pesticide induced genotoxicity as analysed by comet assay. <i>Nutrafoods</i> . 15:101-109 DOI 10.17470/NF-016-1028-2
62	Sachin Gulati, Anita Yadav, Kanupriya, Neeraj Kumar, Ranjan Gupta and <b>Neeraj K Aggarwal</b> (2015). Evaluation of total antioxidant potential in human population due to exposure of radiations from mobile towers. <i>International Journal of Recent Advances in Pharmaceutical Research</i> . 5(1): 87-92
61	Kanupriya, Anita Yadav, Neeraj Kumar, Sachin Gulati, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2015). Association of CYP2E1 and CYP1A1-m2 (BsrD1) Polymorphisms with Cytogenetic Biomarkers in petrol pumps workers. <i>Biomarkers and Genomic Medicines</i> .7:159-164
60	Kanupriya, Anita Yadav, Neeraj Kumar, Sachin Gulati, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2015). Glutathione S-transferase gene polymorphisms: Modulator of genetic damage in gasoline pump workers. <i>International Journal of Toxicology</i> 34(6):500-504
59	Kanupriya, Anita Yadav, Neeraj Kumar, Sachin Gulati, Neeraj K Aggarwal, Ranjan Gupta (2015). Association of polymorphisms of phase I metabolizing genes with sister chromatid exchanges in occupational workers exposed to toluene used in paint thinners. <i>Genetics Research International</i> DOI: <a href="http://dx.doi.org/10.1155/2015/630296">http://dx.doi.org/10.1155/2015/630296</a>
58	Neeraj Kumar, Anita Yadav, Sachin Gulati, Kanupriya, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2015). Studies on antigenotoxic effect of nutraceuticals against genotoxicity induced by simultaneous treatment of pesticides in cultured human peripheral blood lymphocytes. <i>Annals of Biology</i> . 31 (1): 24-27
57	Manpreet Kaur, <b>Neeraj K Aggarwal</b> , Vikas Kumar and Romika Dhiman. (2014). <i>Fusarium solani</i> as biocontrol agent against <i>Parthenium</i> weed. <i>Mycopath</i> . 12(2): 83-86.
56	Varsha Goyal, <b>Neeraj K Aggarwal</b> , Anish Bhuwal and Anita Yadav. (2014). Optimization of CMCase production by <i>Aspergillus niger</i> BK01 using pretreated rice straw under submerged fermentation. <i>Octa Journal of Biosciences</i> . 2(2):94-98.
55	K R Aneja, Vikas Kumar, <b>Neeraj K Aggarwal</b> and Manpreet Kaur. (2014). First report of <i>Cochliobolus spicifer</i> causing leaf spot disease of <i>Trianthema portulacastrum</i> . <i>Journal of Plant Pathology</i> . 96 (4,supplement): S4.122.
54	<b>Neeraj K Aggarwal</b> , Manpreet Kaur, Vikas Kumar and Anita Saini. (2014). Mycobiota associated with <i>Parthenium hysterophous</i> isolated from North India. <i>Indian Journal of Weed Science</i> . 46(2):155-160.
53	K R Aneja, Romika Dhiman, <b>Neeraj K Aggarwal</b> , Vikas Kumar and Manpreet Kaur. (2014). Microbes associated with freshly prepared juices of citrus and carrots. <i>International Journal of Food Science</i> .2014:1-7.DOI.org/10.1155/2014/408085.
52	Varsha Goyal, Anish Kumari, Gulab Singh, Arpana Mittal, Neeraj K Aggarwal, and Anita Yadav. (2014). Parametric optimization of cultural conditions for carboxymethylcellulase production using pretreated rice straw by <i>Bacillus</i> sp 313SI under stationary and shaking conditions. <i>Biotechnology Research International</i> .2014:1-7.DOI/10.1155/2014/651839.

51	Anish Kumari, Gulab Singh, <b>Neeraj K Aggarwal</b> , Varsha Goyal and Anita Yadav. (2014). Poly- $\beta$ -hydroxybutyrate Production and Management of Cardboard Industry Effluent by new <i>Bacillus</i> sp. NA10. <i>Bioresources and Bioprocessing</i> . 1:9-14.
50	Devender Kumar, <b>Neeraj K Aggarwal</b> , S Pabbi, Dolly Wattal Dhar and S Walia. (2014). Morphological parameters and Selected growth attributes in <i>Spirulina</i> strains. <i>Annals of Biology</i> . 30:400-408.
49	Devender Kumar, <b>Neeraj K Aggarwal</b> , S Pabbi, Dolly Wattal Dhar and S Walia. (2014). Extraction and purification of C-Phycocyanin from <i>Spirulina platensis</i> (CCC540). <i>Indian Journal of Plant Physiology</i> . 19:184-188.DOI.10.1007/s 40502-014-0094-7.
48	Varsha Goyal, Arpana Mittal, Anish Bhuwal, Yadav G, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2014). Isolation, identification & biochemical characterization of meso-alkalophilic cellulase producing bacteria. <i>Annals of Biology</i> . 30(2):212-216.
47	Anuja Sharma, Anita Saini, Pankaj Kumar Jiloha, <b>Neeraj K Aggarwal</b> and Anita Yadav.(2014).Isolation and screening of lignolytic bacteria from various ecological niches. In: Proceedings of TEQIP-II sponsored 2 <sup>nd</sup> National Conference on Converging Technologies Beyond 2020.UIET KUK,28-29 November,2014.96-99.
46	Anita Saini, <b>Neeraj K Aggarwal</b> , Anuja Sharma, and Anita Yadav.(2014).Isolation and screening of cellulose degrading fungi for cellulosic ethanol production. In: Proceedings of TEQIP-II sponsored 2 <sup>nd</sup> National Conference on Converging Technologies Beyond 2020.UIET KUK,28-29 November,2014.187-1929.
45	Sachin Gulati, Anita Yadav, Kanupriya, Neeraj Kumar, Ranjan Gupta, Gaurav Kumar and <b>Neeraj K Aggarwal</b> (2014). Frequency distribution of high risk alleles of CYP2C19, CYP2E1 and CYP3A4 in Haryana population. <i>Environmental Toxicology Pharmacology</i> .37: 1186-1193
44	Kanupriya, Anita Yadav, Neeraj Kumar, Sachin Gulati, Ranjan Gupta and <b>Neeraj K Aggarwal</b> (2014). Synergistic effect of GSTM1 and GSTT1 polymorphisms on Sister Chromatid exchanges in Gasoline pump workers. <i>International Journal of Recent Advances Pharmacology Research</i> . 4 (4):132-136.
43	Neeraj Kumar, Anita Yadav, Sachin Gulati, Kanupriya, <b>Neeraj K Aggarwal</b> , Ranjan Gupta (2014). Antigenotoxic effect of curcumin and carvacrol against parathion induced DNA damage in cultured human peripheral blood lymphocytes and its relation to GSTM1 and GSTT1 polymorphism. <i>Journal of Toxicology</i> (2014) <a href="http://dx.doi.org/10.1155/2014/404236">http://dx.doi.org/10.1155/2014/404236</a>
42	Arpana Mittal, V Gupta, Gulab Singh, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2013). Purification and characterization of amyloglucosidase produced by <i>Aspergillus awamori</i> NA21 under Solid State Fermentation using Tapioca Powder. <i>Octa Journal of Biosciences</i> . 1(2):114-124.
41	Devender Kumar, <b>Neeraj K Aggarwal</b> , S Pabbi, Dolly Wattal Dhar and S Walia. (2013). Evaluation of $\beta$ -carotene and antioxidant activity of selected strains of <i>Spirulina</i> . <i>Journal of Food Biochemistry</i> . 7:1-4.
40	Devender Kumar, <b>Neeraj K Aggarwal</b> , S Pabbi, Dolly Wattal Dhar and S Walia. (2013). Protocol optimization for enhanced production of pigments in <i>Spirulina</i> . <i>Indian Journal of Plant Physiology</i> . 18(3):308-312.
39	Channdana N, Kapoor J K, Varsha Goyal, <b>Neeraj K Aggarwal</b> , Kumari K M and Vijjulatha M. (2013). Design, synthesis and antimicrobial evaluation of novel 1,3-oxazolidin-2-one derivative. <i>Current topics in Medicinal Chemistry</i> . 13(16): 2062-2075.



38	Khloye P, Pankaj Kumar, Arpana Mittal, <b>Neeraj K Aggarwal</b> and Sharam P K. (2013). Synthesis of some novel 4-arylidine pyrazoles as potential antimicrobial agents. <i>Organic and Medicinal Chemistry Letters</i> . 3: 1-7.
37	Anish Kumari, Gulab Singh, <b>Neeraj K Aggarwal</b> , Varsha Goyal and Anita Yadav. (2013). Isolation and Screening of Polyhydroxyalkanoates (PHA) Producing Bacteria from Pulp, Paper and Cardboard Industry Wastes. <i>International Journal of Biomaterials</i> . 2013:1-10. DOI/10.1155/2013/752821.
36	Gulab Singh, Anish Kumari, Arpana Mittal, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2013). Poly $\beta$ -hydroxybutyrate production by <i>Bacillus subtilis</i> NG220 using sugar industry waste water. <i>BioMed Research International</i> . 2013:1-10. DOI.org/10.1155/2013/952641.
35	Gulab Singh, Anish Kumari, Arpana Mittal, Varsha Goyal, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2013). Cost effective production of poly $\beta$ -hydroxybutyrate from sugar industry waste water by <i>Bacillus subtilis</i> NG05. <i>Journal of polymer and environment</i> .21:441-449. DOI: 10.1007/s10924-012-0533-3.
34	Shiv Kumar Giri, Anita Yadav, Kumar A, Dev K, Sachin Gulati, Ranjan Gupta, <b>Neeraj K Aggarwal</b> and Gautam SK (2013). Polymorphic variation of CYP1A1 and CYP1B1 gene in Haryana population. <i>Biochemical genetics</i> . DOI10.1007/s10528013-9612Y)
33	Gulab Singh, Arpana Mittal, Anish Kumari, Varsha Goyal, V, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2012). Isolation and cultural conditions optimization for Poly $\beta$ -hydroxybutyrate producing <i>Bacillus</i> species. <i>Annals of Biology</i> : 28 (2): 116-120.
32	Arpana Mittal, Gulab Singh, Varsha Goyal, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2012). Isolation and biochemical characterization of acido-thermophilic phytase producer yeast strain for potential application in poultry feed. <i>Advances in Applied Research</i> . 4(1):29-35.
31	Arpana Mittal, Gulab Singh, Varsha Goyal, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2012). Production of phytase by acido-thermophilic strain of <i>Klebsiella</i> sp. DB-3 FJ711774.1 using orange peel under submerged fermentation. <i>Innovative Romania Food Technology</i> . 10: 18-27.
30	Shiv GiriK, Anita Yadav, Kumar A, Dev K, Sachin Gulati, Ranjan Gupta, <b>Neeraj K Aggarwal</b> and Gautam SK (2012). CYP1A1 gene polymorphisms: Modulator of genetic Damage in Coal-Tar Workers. <i>Asian Pacific Journal of Cancer Prevention</i> . 13:1-4
29	Kumar A, Anita Yadav, Shiv GiriK, Dev K, Sachin Gulati, Gautam SK, Ranjan Gupta, <b>Neeraj K Aggarwal</b> (2012). Allelic variation of GSTM1 and GSTT1 genes in Haryana population. <i>Genomic Medicine, Biomarkers and Health Science</i> . 4 :98-102
28	Shiv Kumar Giri, Anita Yadav, Anil Kumar, Kapil Dev, Sachin Gulati, Ranjan Gupta, <b>Neeraj K Aggarwal</b> and Sanjeev Kumar Gautam (2012).Synergistic effect of GSTM1 and CYP1A1 polymorphism on DNA damage in coaltar workers". <i>International Journal of Recent Advances Pharmaceutical Research</i> . 2 (1):51-57.
27	Gulab Singh, Arpana Mittal, Anish Kumari, Varsha Goyal, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2011). Optimization of Poly $\beta$ - hydroxybutyrate from <i>Bacillus</i> species: <i>European journal Of Biological Sciences</i> . 3(4):112-116.
26	Gulab Singh, Arpana Mittal, Shiv Giri K, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2011). Isolation of Poly $\beta$ - hydroxybutyrate producing bacteria from soil samples of different ecological niches. <i>Research Bioscientia</i> . 2:309-313.
25	Arpana Mittal, Gulab Singh, Varsha Goyal, Anita Yadav, K R Aneja, S K Gautam , <b>Neeraj K Aggarwal</b> . (2011). Isolation and biochemical characterization of Acido -

	Thermophilic extracellular Phytase producing bacterial strain for potential application in poultry feed. Jundishapur Journal of Microbiology. 4(4):273-282.
24	Arpana Mittal, Gulab Singh, Varsha Goyal, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2011). Optimization of medium components for phytase production on orange peel flour by <i>Klebsiella</i> sp. DB3 using response surface methodology. Innovative Romania Food Technol. 9:35-44
23	Arpana Mittal, Anita Yadav, Gulab Singh, R C Anand and <b>Neeraj K Aggarwal</b> . (2011). Comparative nitrogen fixation by mesophilic (HTS) vis-à-vis thermo tolerant mutants (HTR) of <i>Azotobacter chroococcum</i> at high temperature and their effect on cotton biomass, Jundishapur Journal of Microbiology. 4(2): 105-114.
22	Arpana Mittal, Gulab Singh, Kumar A, Anita Yadav and <b>Neeraj K Aggarwal</b> . (2011). Influence of Carbon Source on Phytase Production by Novel Acido -Thermophilic Strain of <i>Klebsiella</i> sp. DB-3. Research Bioscientia. 2(1): 39-42.
21	M Selwal, Anita Yadav, Selwal K, <b>Neeraj K Aggarwal</b> , Ranjan Gupta and S K Gautam. (2011). Tannase production by <i>Penicillium atramentosum</i> KM under SSF and its applications in wine clarification and tea cream solubilization. Brazilian Journal of Microbiology. 42:374-387.
20	Kumar A, Anita Yadav, Shiv Giri K, Dev K, S K Gautam, Sachin Gulati, <b>Neeraj K Aggarwal</b> , Ranjan Gupta and <b>Neeraj K Aggarwal</b> . (2011). Increased Chromosomal Aberration among Road Construction Workers Occupationally Exposed to Polycyclic Aromatic Hydrocarbons. Research Bioscientia. 2:6-12.
19	Anil Kumar, Anita Yadav, Shiv K Giri, Kapil Dev, S K Gautam, Sachin Gulati, <b>Neeraj K Aggarwal</b> , Ranjan Gupta and <b>Neeraj K Aggarwal</b> . (2011). Genotoxicity Evaluation among Coaltar Workers Using Micronucleus as Biomarkers and Influence of GSTT1 Polymorphism. Research Bioscientia. 1:6-12.
18	Anil Kumar, Anita Yadav, Shiv Kumar Giri, Kapil Dev, Sanjeev Kumar Gautam, Ranjan Gupta and <b>Neeraj K Aggarwal</b> (2011) Influence of GSTM1 and GSTT1 genotypes and confounding factors on the frequency of sister chromatid exchange and micronucleus among road construction workers. Chemosphere.84:564-570.
17	Anil Kumar, Anita Yadav, Shiv Kumar Giri, Kapil Dev, Sanjeev Kumar Gautam, Ranjan Gupta and <b>Neeraj K Aggarwal</b> (2011) Combined effect of genetic polymorphism of GSTM1 and GSTT1 genotypes on cytogenetic biomarkers among coaltar workers". Environmental Toxicology Pharmacology: 32-128-135.
16	Shiv Kumar Giri, Anita Yadav, Anil Kumar, Kapil Dev, Sachin Gulati, Ranjan Gupta, <b>Neeraj K Aggarwal</b> and Sanjeev Kumar Gautam (2011). Association of GSTM1 and GSTT1 polymorphism with DNA damage in coaltar workers". Science of the Total Environment. 409: 4465-4469.
15	M Selwal, Anita Yadav, <b>Neeraj K Aggarwal</b> , Kumar K, Ranjan Gupta and S K Gautam. (2010). Optimization of cultural conditions for tannase production by <i>Pseudomonas aeruginosa</i> IIB 8914 under submerged fermentation. World Journal of Microbiology Biotechnology. 26:599-605.
14	Shiv Giri K, Anita Yadav, Anil Kumar, Kapil Dev, <b>Sachin Gulati</b> , <b>Ranjan Gupta</b> , <b>Neeraj K Aggarwal</b> and S K Gautam. (2010). Assessment of Polycyclic aromatic hydrocarbons in ambient air near coal tar melting stations in Haryana. In: proceedings of National conference on environmental and health issue: In a changing climatic Scenario. 185-195.
13	Anil Kumar, Anita Yadav, Shiv Kumar Giri, Kapil Dev, Sanjeev Kumar Gautam, Ranjan Gupta and <b>Neeraj K Aggarwal</b> (2010). Genotoxicity Evaluation among

	Coaltar Workers Using Micronucleus as Biomarkers and Influence of GSTT1 Polymorphism. Research Bioscientia Vol. 1 (I) 6-12.
12	M Selwal, Anita Yadav, <b>Neeraj K Aggarwal</b> , Kumar K and Kumar A. (2008). Tannase production by <i>Aspergillus fumigatus</i> MA under solid-state fermentation. World Journal of Microbiology and Biotechnology 24:3023-3030.
11	<b>Neeraj K Aggarwal</b> , Sudesh K Yadav, S S Dhamija and B S Yadav. (2001). Optimization of hydrolysis of pearl millet for glucose production. Starch/Starke. 53(7):330-335.
10	<b>Neeraj K Aggarwal</b> , Poonam Nigam, Dalel Singh and B S Yadav. (2001). Process optimization for the bioethanol industry from sorghum, a non-conventional source of starch. World Journal of Microbiology and Biotechnology 17(4):411-416.
9	Sudesh K Yadav, Y Luthra, D R Sood and <b>Neeraj K Aggarwal</b> . (2001). Malting potential of husked barley in relation to proanthocyanidins. Journal of Food Science Technology. 38:74-77.
8	<b>Neeraj K Aggarwal</b> , Poonam Nigam, Dalel Singh and B S Yadav. (2001). Process optimization for the bioethanol industry from tapioca, a non-conventional source of starch. World Journal of Microbiology and Biotechnology 17(4):783-784.
7	Sudesh K Yadav, Y Luthra, D R Sood and <b>Neeraj K Aggarwal</b> . (2000). Gibberellic acid (GA <sub>3</sub> ) induced changes in proanthocyanidins and malt quality of two six row husked barleys. Plant Foods for human nutrition. 55:87-96.
6	Vivek Kumar, <b>Neeraj K Aggarwal</b> and B P Singh. (2000). Performance and persistence of P solubilising <i>Azotobacter chroococcum</i> in wheat rhizosphere. Folia Microbiology. 45:343-347.
5	Vivek Kumar, <b>Neeraj K Aggarwal</b> and B P Singh. (2000). Influence of analogue resistant mutants or <i>Azotobacter chroococcum</i> solubilising phosphate on yield and quality of <i>Helianthus annuus</i> . Folia Microbiology. 45:349-352.
4	Urvashi Kohli and <b>Neeraj K Aggarwal</b> . (1999). Production of thermostable alkaline protease from thermophilic bacteria. Annals of Biology. 15:151-153.
3	<b>Neeraj K Aggarwal</b> , R C Anand, Urvashi Kohli and S Suneja. (1997). Growth of thermotolerant and thermosensitive strains of <i>Azotobacter chroococcum</i> at elevated temperature. International Journal of Tropical Agriculture.15:269-274.
2	<b>Neeraj K Aggarwal</b> and R C Anand. (1996). Nitrogen fixation in relation to growth rate on mesophilic mutants of <i>Azotobacter chroococcum</i> at elevated temperature In: Resource Management in Agriculture. Eds. R. C. Dogra, R. K. Behl, A. L. Khurana. CCSHAU, Hisar & MMB, New Delhi. 119-123.
1	<b>Neeraj K Aggarwal</b> , S Suneja and R C Anand. (1996). Indole acetic acid production by thermotolerant mutants of <i>Azotobacter chroococcum</i> at elevated temperature. Annals of Biology. 12:309-313.

## REVIEW

1. Katyal, M., Singh, R., Mahajan, R., Sharma, A., Gupta, R., **Aggarwal, N. K.**, & Yadav, A. (2023). Bacterial Cellulose: Nature's greener tool for industries. *Biotechnology and Applied Biochemistry*.
2. Sharma, R., Mittal, M., Yadav, A., & **Aggarwal, N. K.** (2023). Emerging applications of green coconut: A promising lignocellulosic biomass. *Environmental Quality Management*.
3. Naveen Kumar and **Neeraj K Aggarwal**.(2022).Global Epidemiology of Mucormycosis associated with post Covid-19 complication.*Research Journal of Biotechnology*.17(3):204-208. <https://doi.org/10.25303/1703rjbt204208>
4. Mahak Mittal,Divya Mittal, Neeraj K. Aggarwal.(2022).Plastic accumulation during COVID-19: call for another pandemic; bioplastic a step towards this challenge?. *Environmental Science and Pollution Research* <https://doi.org/10.1007/s11356-021-17792-w>
5. Sunil Kumar,Sangeeta Yadav,Veena Vishwakarma,Bharti Yadav,Ranjan Gupta,Neeraj Aggarwal and Anita Yadav.(2021).A review n toxicological hazardof P-Phenylenediamines:A primary ingredient of hair dye and potential biomarker-based risk assessment.*Natural Volatiles & Essential Oils*.8(6): 754-781.
6. Parveen Surain and **Neeraj K Aggarwal** (2020). Candida,a human pathogen and major types of Candidiasis. *International Journal of Pharmaceutical Science and Research*. 11(1):41-67. DOI: 10.13040/IJPSR.0975-8232.10(1).41-67.
7. Manpreet Kaur and **Neeraj K Aggarwal**. (2017). *Trianthema portulacastrum* L.-The noxious weed and its control. *Advances in plants and Agriculture Research*.6(3):00213. DOI: 10.15406/apar.2017.06.00213.
8. Anuja Sharma, **Neeraj K Aggarwal**, Anita Saini and Anita Yadav. (2016). Beyond control: water hyacinth-oppurtunities and challenges. *Journal of Environment and Technology*. 9(1):26-48.
9. Anita Saini, **Neeraj K Aggarwal**, Anuja Sharma and Anita Yadav. (2015). Actinomycetes: A Source of Lignocellulolytic Enzymes. *Enzyme Research*. 2015: 1-15.
10. Anita Saini, **Neeraj K Aggarwal**, Anuja Sharma and Anita Yadav. (2015). Prospects for Irradiation in Cellulosic Ethanol Production. *Biotechnology Research International*. 2015:1-13.DOI.org/10.1155/2015/157139.
11. K R Aneja, Romika Dhiman, **Neeraj K Aggarwal** and Ashish Aneja . (2014). Emerging preservation techniques for controlling spoilage and pathogenic microorganism in fruit juices. *International Journal of Microbiology*. DOI.org/10.1155/2014/758942.
12. Manpreet Kaur, **Neeraj K Aggarwal**, Vikas Kumar and Romika Dhiman. (2014). Effects and Management of Parthenium hysterophous A Weed of Global Significances,” *International Scholarly Research Notices*.2014:1-12.DOI.org/10.1155/2014/368647.
13. Anita Saini, **Neeraj K Aggarwal**, Manpreet Kaur and Anita Yadav.(2014). Utility potential of Parthenium hysterophous for its strategic management. *Advances in Agriculture*. 2014:1-16.DOI.org/10.1155/2014/758942.
14. Arpana Mittal, V Gupta , Gulab Singh, Anita Yadav and **Neeraj K Aggarwal**. (2013). Phytase: A Boom in Food Industry. *Octa Journal of Biosciences*. 1(2):152-164.

## Book Chapters

1. Romika Dhiman, and **Neeraj K Aggarwal** (2019). Efficacy of plant antimicrobials as preservatives in food. In: Food Preservation from Basics to Advanced Technologies. Intech Open, London UK. Chapter. <http://dx.doi.org/10.5772/intechopen.83440> .
2. Veena Vishwakarma, Sunil Kumar, Bharti Yadav, Ranjan Gupta, Neeraj K Aggarwal and Anita Yadav.(2018).Carcinogenicity of Nickel: A Review. In: Emerging trends and Challenges in Biosciences. Eds. Kuldeep Yadav.Chapter22:271-281.
3. **Vikas Kumar**, Neeraj Kumar Aggarwal (2018). Bioherbicidal Concept: A Novel Strategy to Control Weeds. In: Microbial Bioprospecting for Sustainable Development (Eds. Joginder Singh Panwar, Deepansh Sharma). Springer, India (accepted).
4. Anita Saini, **Neeraj K Aggarwal** and Anita Yadav (2017) The application of microorganisms in consolidated bioprocessing of biomass for bioethanol production. In: Microbiology and biotechnology for a sustainable environment. Ed Vikas Kumar ,Gulab Singh and **Neeraj K Aggarwal** . Nova Publishers, New York. Chapter 8: 159-184 ISBN 978-1-63484-671-4.
5. Vikas Kumar,Gulab Singh, **Neeraj K Aggarwal**, Parveen Surain, Romika Dhiman and Monika Sharma(2017) The Role of Biotechnology in Environmental Sustainability. In: Microbiology and biotechnology for a sustainable environment. Ed Vikas Kumar, Gulab Singh and **Neeraj K Aggarwal**. Nova Publishers, New York. Chapter 1: 1-18 ISBN 978-1-63484-671-4.
6. Gulab Singh, Vikas Kumar, and **Neeraj K Aggarwal**. (2017). Environmental Management by Microbes through Poly B Hydroxybutyrate Production. In: Microbiology and biotechnology for a sustainable environment. Ed Vikas Kumar, Gulab Singh and **Neeraj K Aggarwal**. Nova Publishers, New York. Chapter 10: 207-220. ISBN 978-1-63484-671.
7. Devender Kumar, Priyanka Nehra, Anuj Kumar, **Neeraj K Aggarwal** (2017). Microalgae: A potential source of Biofuel. In:Microbial advances in agriculture and human health (Eds Pardeep Kumar, Jayanta Kumar Patra and Pranjal Chandra. Apple Academic Press Inc.(a Taylor & Francis group).
8. Devender Kumar, Priyanka Nehra, Dolly Wattal Dhar ,Anuj Kumar,Neeraj K Aggarwal.(2017). Spirulina: A potential and miracle source of future food Micro-algae In:Microalgae for sustainable future (Eds Narender Kumar Rathore, G Abraham and Keshawanand tripathi. NovaScientific Publication, USA.
9. **Neeraj K Aggarwal**, Anish Kumari Bhuwal, Gulab Singh, Anita Yadav and Ranjan Gupta. (2016). Cost effective production of bioplastic (PHAs) from agricultural and industrial waste. In:Environmental Science &Engineering Vol. 5:Solid waste management. Eds Bhola R Gurjar and J N Govil, Studium Press LLC USA.Chapter14: 305-339.
10. K R Aneja, Romika Dhiman, **Neeraj K Aggarwal** and Ashish Aneja (2016). Bacteriocin as potential Biopreservatives in food:an overview.In: Frontiers in Food Biotechnology.Eds Chetan Sharma, Anil K Sharma and K R Aneja. Nova Publishers, New York. Chapter 4 .75-94. ISBN 978-1-63484-671-4.
11. Gulab S Yadav, Anish Bhuwal and **Neeraj K Aggarwal**. (2013). Bioremediation: A Biotechnological technique to control organic pollutants: In: Emerging Science and technology for Food, Agriculture and Environment: Eds Sandeep Kumar, Pawan K Yadav and Sunil Kumar. Agrobios International Publisher.Chapter 14: 161-176.

12. Anish K. Bhuwal, Gulab .S. Yadav, and **Neeraj K Aggarwal** (2013).Utilization of Microorganisms in agriculture as Biopesticides and Biofertilizer. In: Emerging Science and technology for Food, Agriculture and Environment: Eds Sandeep Kumar, Pawan K Yadav and Sunil Kumar. Agrobios International Publisher.Chapter 27: 311-326.
13. Ranjan Gupta, Anita Yadav and **Neeraj K Aggarwal**.(2013). Molecular farming. In : Modern Biotechnology and its Applications.Eds K K Behera. New India Publishing Agency,New Delhi. Chapter 11:281-302.

## BOOKS

S.No.	Author	Year	Title of book	Publisher
1	<b>Neeraj K Aggarwal</b> and Anita Yadav	2010	Introduction to Biotechnology	Bharat Publications ISBN-13:978-81- 909129-9-0
2	Vikas Kumar, Gulab Singh, <b>Neeraj K Aggarwal</b>	2017	Microbiology and Biotechnology for a sustainable Environment	Nova Publishers, New York.  ISBN 978-1-63484-671-4
3	Gulab Singh Yadav, Vikas Kumar, <b>Neeraj K Aggarwal</b>	2019	Aptamers	Springer  ISBN 978-981-13- 8835-4
4	Anuja Sharma, <b>Neeraj K Aggarwal</b>	2020	Water Hyacinth: A Potential Lignocellulosic Biomass for Bioethanol	Springer  ISBN 978-3-030- 35631-6
5.	Neeraj K. Aggarwal, Naveen Kumar, and Mahak Mittal	2022	Bioethanol Production: Past and Present	Springer  ISBN 978-3-031- 05091-6

### Research projects-

Sr. No.	Title	Funding agency
1	“Low-cost production of microbial plastic (poly B – hydroxybutyrate ) from sugar industry waste water and its degradation in various ecological niches-a dual strategy for controlling pollution and waste management”	Department of Science and Technology (DST) Govt of INDIA
2	“Bioethanol from Rice Straw-The new generation ’s Ecofriendly Solution to reduce agricultural waste and to Manage energy crisis”	Haryana state Council of Science and Technology Govt of INDIA
3	Mycoherbicidal control of congress grass: the weed of global significance.	Research and Development K.U.K.
4	Parthenium hysterophorous: Biomass Valorization for bioethanol production	Haryana state Council of Science and Technology Govt of INDIA
5	Green Approach for Synthesis of polyhydroxybutyrate with Zinc oxide nanoparticles for food packaging by using coconut waste.	K.U.K
6	Co-principal Investigator of Research Project Under Seed Money Grant “Molecular characterization of Bacillus sp. ND6D produced thermostable keratinase: A green approach in feather waste management” awarded by Kurukshetra University	K.U.K.

### List of PhD students

Sr. No.	Name of Scholar	Title of thesis	Month and year of Award
1	Arpana Mittal	Production, purification and characterization of microbial phytases for application in poultry feed	April,2014
2	Gulab Singh	Production of Poly beta hydrobutyrate from sugar industrial waste water	June,2014
3	Devender Kumar	The relationship of Spirulina strains inferred from phycocyanin operon local (cpcb-IGS-cpca) and 16 rRNA gene sequence	Dec. 2014
4	Parveen Surain	Eco friendly control of <i>Candida albicans</i> through medicinal plants	May,2015
5	Varsha Goyal	Production of bioethanol from rice straw	Aug., 2015
6	Pankaj Kumar	Control of water hyacinth with fungal biocontrol agents	Sept.,2015
7	Anish Bhuwal	Production of microbial poly beta hydroxybutyrate from cardboard industry wastewater	Jan., 2016

8	Romika	Microbes associated with fruit juices sold in retail markets and their inactivation with plant antimicrobials	July,2016
9	Vikash Kumar	Biological control of <i>Trianthema portulacastrum</i> with fungal pathogens	April,2016
10	Manpreet Kaur	Management of <i>Parthenium hysterophous</i> with biocontrol agents	Dec. 2016
11	Anita Saini	Bioethanol production from <i>Parthenium hysterophous</i>	Nov. 2017
12	Anuja Sharma	Biological pretreatment of water hyacinth ( <i>Eichhornia crassipes</i> ) for delignification	Oct., 2017
13	Himani Singla	Optimization and bio synthesis of Poly beta hydroxybutyrate by efficient strains	May, 2018
14	Amit Sharma	Study of medicinal plants for antimicrobial, antioxidant, anti-mutagenic and anti-genotoxic potential	Pursuing
15	Anita Dhanda	Assessment of lactic acid bacteria for antimicrobial, antioxidant, anti-mutagenic and probiotic attributes.	Pursuing
16	Naveen Kumar	<i>Parthenium hysterophous</i> : Biomass valorization for Bioethanol production and synthesis of Nanocomposite with diverse applications.	Pursuing
17	Mahak Mittal	Biosynthesis of Bioplastics and PHB-Ag Nanocomposite by using Food waste.	Pursuing
18	Kirti	Response of soil microbial indicators to long term alkali water irrigation management	Pursuing
19	Ritu Sharma	Comparative work of decolorization of dyes by lignin ZnO nanocomposite and bacterial strains	Pursuing
20	Poonam Sharma	Isolation and characterization of cellulose producing bacteria using Rice straw hydrolysate for production of bacterial cellulose-lignin-MgO nanocomposite for antibacterial potential.	Pursuing

### Invited Lectures

- Delivered an invited talk on “Endoglucanase production by soil inhabiting *Streptomyces* sp. using lignocellulosic biomass in National Seminar on Innovative Approaches in Microbial Technology organized by Department of Botany and Microbiology, Gurukul Kangri Vishwavidyalaya, Haridwar, Uttarakhand, India on 8-9 March ,2019
- Delivered an invited talk on “Bioethanol 2025” in National Conference on Innovations in Biomass Technology (IBT 2019) organized by Centre of Innovative and Applied Bioprocessing (CIAB) and National Agri-Food Biotechnology Institute (NABI) Mohali, Punjab, India on 11-13 December ,2019
- Delivered invited talk on “Motivation” organized by GSSS Atawa under interaction programme organized by Haryana School Shiksha Pariyojna Parishad to encourage the students on 27-12-2019.
- Participated in Invited Radio Interview talk on “Corona- Ek Jankari” in on 11th May 2020 at 9.30 am in All India Radio (AIR) Kurukshetra.
- Delivered an invited Radio talk on “Corona- an overview” in Gyan Vigyan Programme on 14 May 2020 at 7.30 am in All India Radio (AIR) Kurukshetra.