

DETAILED BIODATA



- 1. Name and full correspondence address:** Dr. Naveen Gupta,
Room No.302 &320
Department of Microbiology, South Campus,
Panjab University, Sector-25, Chandigarh,
India-160014
- 2. Areas of expertise**
Industrial Microbiology
Environmental Microbiology
Molecular Biology
- 3. Email(s) and contact number(s)**
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09041062680
- 4. Institution**
Department of Microbiology, South Campus,
Panjab University
- 5. Date of Birth**
27/04/1967
- 6. Gender (M/F/T)**
M
- 7. Category Gen/SC/ST/OBC**
Gen
- 8. Whether differently abled (Yes/No)**
No

9. Academic Qualification (Undergraduate Onwards)

Degree	Year	Subject	University/Institution
Ph.D.	1998	Microbiology/Biotechnology	Institute of Microbial Technology Chandigarh (IMTECH-CSIR), P.U. –Chandigarh
M.Sc. (Hons.)	1991	Microbiology	P.U. Chandigarh
B.Sc. (Hons.)	1989	Microbiology	P.U. Chandigarh
B.Sc. (Hons.)	1990	Urdu	P.U. Chandigarh

10. Ph.D. thesis title, guide's Name, Institute/Organization/University, Year of Award.

Thesis Title: “Studies on Xylan Degrading Enzyme From an Environmental Alkalophile: Regulation, Gene Cloning, and Sequence Analysis”

Guide: **Dr. Amit Ghosh, Ex-Director IMTECH CSIR, Chandigarh**

Organization/University: Institute of Microbial Technology Chandigarh (IMTECH-CSIR), P.U. –Chandigarh

Year of Award: 1998

11. Research Experience: 25 Years

Research Guidance:

- **Ph.D.: Degree Awarded 13**
- **M.Sc.: Degree Awarded 32**

Under Guidance: 6
Under Guidance: 3

Publications (List of papers published in SCI Journals, in year-wise descending order)

Publication 63
Citation 1955
H-Index 25
I₁₀ 36
Highest Impact Factor 16

Sr. No.	Author(s)	Title	Name of Journal	Vol.	Page	Year	ISSN No.	Impact factor
63.	Monika Rana, Sunena Jassal, Neena Puri, Koushik Mazumder, Naveen Gupta	Functional β -mannooligosaccharides: Sources, enzymatic production and application as prebiotics	Critical Reviews in Food Science and Nutrition	doi.org/10.1080/10408398.2023.2222165		2023	1040-8398	11.176
62.	Sonica Sondhi, Navleen Kaur Chopra, Aditya Kumar, Naveen Gupta	Laccase: A Green Solution for Environmental Problems	Advances in Environmental and Engineering Research	4(2)	1-32	2023	2766-6190	-
61.	Sunena Jassal, Rahul Warmoota, Deepti Goyal, Ishita Mittal, Anupama Sharma, Naveen Gupta	Sustainable wastewater treatments: Opportunities and challenges.	Brazilian Archives of Biology and Technology	66		2023	1678-4324	1.18
60.	Steffy Angural, Sunena Jassal, Rahul Warmoota, Monika Rana, Neena Puri, Naveen Gupta	An integrated approach for pulp biobleaching: application of cocktail of enzymes	Environmental Science and Pollution Research	30	57155–57163	March 2023	1614-7499	5.190
59.	Monika Rana, Deepak Kumar, Steffy Angural, Rahul Warmoota, Koushik Mazumder, Naveen Gupta	Hyperproduction of a bacterial mannanase and its application for production of bioactive mannoooligosaccharides from agro-waste	Process Biochemistry	124	13-23	January 2023	1359-5113	4.885
58.	Sanjeev Balda, Aarjoo	Deinking of old newsprint (ONP)	Biomass Conversion	--	1-10	March 2022	2190-6815	4.05

	Sharma, Naveen Gupta , Neena Capalash, Prince Sharma	pulp with an engineered laccase: a greener approach for paper recycling	and Biorefinery					
57.	Aarjoo Sharma, Sanjeev Balda, Naveen Gupta , Neena Capalash, Prince Sharma	Microaerobic conditions enhance laccase production from <i>Rheinheimera</i> sp. in an economical medium	Archives of Microbiology	204	1-12	August 2022	0302-8933	2.667
56.	Deepak Kumar, Raveena Bhardwaj, Sunena Jassal, Tanya Goyal, Aastha Khullar, Naveen Gupta	Application of enzymes for an eco-friendly approach to textile processing	Environmental Science and Pollution Research	--	1-11	Oct 2021	1614-7499	5.190
55.	Rahul Warmoota, Aditya Kumar, Steffy Angural, Monika Rana, Sunena Jassal, Neena Puri, Naveen Gupta	Bioremediation of sea food waste in solid state fermentation along with production of bioactive agents	Journal of advanced scientific research	12(2)	165-170	May 2021	0976-9595	0
54.	Deepak Kumar, Aastha Khullar, Neha Sharma, Naveen Gupta	Immobilization of laccase from <i>Bacillus subtilis</i> DS on chitosan beads and standardization of process for biodegradation of textile dyes	Journal of Chemical Technology and Biotechnology	97(2)	466-473	March 2021	1097-4660	3.709
53.	Steffy Angural, Indu Bala, Aditya Kumar, Deepak Kumar, Sunena Jassal, Naveen Gupta	Bleach enhancement of mixed wood pulp by mixture of thermo-alkali stable xylanase and mannanase derived through co-culturing of Alkalophilic <i>Bacillus</i> sp. NG-27 and <i>Bacillus nealsonii</i> PN-11	Heliyon	7(1)	e05673	Jan 2021	2405-8440	3.776

52.	Monika Rana, Aditya Kumar, Deepak Kumar, Koushik Mazumder, Naveen Gupta	Isolation and characterization of mannanolytic bacteria for the production of prebiotic mannoooligosaccharides from copra meal	Journal of Advanced Scientific Research	11	117-123	Sep 2020	0976-9595	0
51.	Rajdeep Jaswal , Kanti Kiran, Sivasubramanian Rajarammohan a , Himanshu Dubey, Pankaj Kumar Singh, Yogesh Sharma , Rupesh Deshmukh, Humira Sonah , Naveen Gupta , T.R. Sharma	Effector Biology of Biotrophic Plant Fungal Pathogens: Current Advances and Future Prospective	Microbiological Research	241	126567	Dec 2020	0944-5013	5.67
50.	Steffy Angural, Aditya Kumar, Deepak Kumar, Rahul Warmoota, Sonica Sondhi and Naveen Gupta	Lignolytic and hemicellulolytic enzymes cocktail production from Bacillus tequilensis LXM 55 and its application in pulp biobleaching	Bioprocess and Biosystems Engineering	43	2219-2229	Dec 2020	1615-7591	3.434
49.	Aarjoo Sharma, Sanjeev Balda, Naveen Gupta , Neena Capalash, Prince Sharma	Enzyme cocktail: An opportunity for greener agro-pulp biobleaching in paper industry •	Journal of Cleaner Production	271 •	222573	May 2020	0959-6526	11.072
48.	Steffy Angural, Monika Rana, Alisha Sharma, Rahul Warmoota, Neena Puri and Naveen Gupta	Combinatorial biobleaching of mixed wood pulp with lignolytic and hemicellulolytic enzymes for paper making	Indian Journal of Microbiology	60	383-387	Sep 2020	0046-8991	2.461
47.	Neha Sharma , Steffy Angural., Monika Rana,	Phytase producing lactic acid bacteria: cell factories for enhancing	Trends in Food Science & Technology	96	1-12	Dec 2020	0924-2244	16.002

	Neena Puri, Kanthi Kiran Kondepudi, and Naveen Gupta	micronutrient bioavailability of phytate rich foods						
46.	Rajdeep Jaswal, Himanshu Dubey, Kanti Kiran, Pankaj Kumar Singh, Hukam C Rawal, Subhash C Bhardwaj, Pramod Prasad, Naveen Gupta and T R Sharma	Comparative secretome analysis of Indian wheat leaf rust pathogen <i>Puccinia triticina</i>	Indian Journal of Agricultural Sciences	89 (10)	1688-92	Oct 2019	0019- 5022	0
45.	Neha Sharma , Kanthi Kiran Kondepudi, and Naveen Gupta	Screening of Ethnic Indian Fermented Foods for Effective Phytase Producing Lactic Acid Bacteria for Application in Dephytinization of Phytate Rich Foods	International Journal of Scientific Research in Biological Sciences	6 (2)	01-07	April 2019	2347- 7520	0
44.	Vijaya Gupta, Sanjeev Balda, Naveen Gupta , Neena Capalash, Prince Sharma	Functional substitution of domain 3 (T1 copper center) of a novel laccase with Cu ions	International Journal of Biological Macromolecu les	123	1052- 1061	Nov 2019	6141- 8130	8.025
43	Deepak Kumar, Aditya Kumar, Sonica Sondhi Prince Sharma, Naveen Gupta	An alkaline bacterial laccase for polymerization of natural precursors for hair dye synthesis	3 Biotech	8 (3)	182	March 2018		2.893
42.	Aditya Kumar, Deepak Kumar, Nancy George, Prince Sharma, Naveen Gupta	A process for complete biodegradation of shrimp waste by a novel marine isolate <i>Paenibacillus</i> sp. AD with simultaneous production of	International Journal of Biological Macromolecu les	109	263-272	April 2018	0141- 8130	8.02

		chitinase and chitin oligosaccharides						
41.	Aditi David, Prakram Singh Chauhan, Aditya Kumar, Steffy Angural, Deepak Kumar, Neena Puri, Naveen Gupta	Coproduction of protease and mannanase from <i>Bacillus nealsonii</i> PN-11 in solid state fermentation and their combined application as detergent additives	International Journal of Biological Macromolecules	108	1176–1184	March 2018	0141-8130	8.02
40.	Sonica Sondhi, Deepak Kumar, Steffy Angural, Prince Sharma, Naveen Gupta	Enzymatic Approach for Bioremediation of Effluent from Pulp and Paper Industry by Thermo Alkali Stable Laccase from <i>Bacillus tequilensis</i> SN4	Journal of Commercial Biotechnology	23(4)	12–21	Oct 2017	1462-8732	0.239
39.	Aditya Kumar, Laksh, Steffy Angural, Deepak Kumar, Naveen Gupta , Neena Puri	A Statistical Approach for the Chitinase Production by <i>Bacillus</i> Sp. and its Antifungal Potential	International Journal of Engineering & Scientific Research	5(10)	28-47	Oct 2017	2347-6532	0
38.	Vijaya Gupta , Neena Capalash , Naveen Gupta , Prince Sharma	Bio-Prospecting Laccases in the Bacterial Diversity of Activated Sludge From Pulp and Paper Industry	Indian Journal of Microbiology	57(1)	75-82	Sep 2016	0046-8991	2.461
37.	Vijaya Gupta , Neena Capalash , Naveen Gupta , Prince Sharma	Bio-prospecting Bacterial Diversity of Hot Springs in Northern Himalayan Region of India for Laccases	Indian Journal of Microbiology	57(3)	285-291	June 2017	0046-8991	2.461
36.	Aarjoo Sharma, Vijaya Gupta, Mussarat Khan, Sanjeev Balda, Naveen Gupta , Neena Capalash, Prince Sharma	Flavonoid-rich agro-industrial residues for enhanced bacterial laccase production by submerged and solid-state fermentation	3 Biotech	7: 200		June 2017	2190-5738	2.893
35.	Deepak Kumar, Steffy	Cloning, Characterization	European Journal of	4(9)	584-592	Sep 2017	2394-3211	0

	Angural, Monika Rana, Gurleen Kaur, Neena Puri and Naveen Gupta	and its potential in pulp Bio Bleaching by Alkali thermostable β -Mannanase from <i>Bacillus</i> sp. 22	Pharmaceutic al and Medical Research					
34.	Naveen Gupta , Neena Puri, Neha Sharma, Sheenu Sharma, Kirandeep Kaur	Statistical Optimization of Physical and Nutritional Factors for Laccase Production by Environmental Fungal Isolate Ns-1	European Journal of Pharmaceutic al and Medical Research	4(9)	559-569	August 2017	2394-3211	0
33.	Naveen Gupta , Aditya Kumar, Laksh, Steffy Angural and Monika Rana	Process optimization of Extracellular Chitinase Production from <i>Bacillus</i> Sp. Isolated from Fish Waste Dumping site	European Journal of Pharmaceutic al and Medical Research	4(9)	474-480	August 2017	2394-3211	0
32.	Mahavir Joshi, Ratan Kaur, Preeti Kanwar, Gourav Dhiman, Geetika Sharma, Sneha Lata, Kalpanan Tilak, Naveen Gupta and Tulika Mishra	To evaluate antioxidant activity of γ -Oryzanol extracted from rice bran oil	International Journal of Life Sciences & Pharma Research	6(3)	17-25	July 2016	2250-0480	0
31.	Deepak Kumar, Aditya Kumar, Nancy George and Naveen Gupta	Production optimization and characterization of an alkaline thermostable protease and its application as laundry additive.	International Journal of Scientific Engineering and Applied Sciences	2(6)	9-43	June 2016	2395-3470	0
30.	Tulika Mishra, Geetika Sharma, preeti Kanwar, Mahavir Joshi, Sneha Lata, Sunny Dhiman, Naveen Gupta and Aruna Bhati	Effect of seed extract of <i>Ziziphus mauritiana</i> on the mutagenic potential of <i>Salmonella typhimurium</i>	International Journal of Recent Scientific Research	7(5)	10995-10998	May 2016	0976-3031	0
29.	Sonica Sondhi,	Optimization of the	Conference		213-233	2016		

	Deepak Kumar, Steffy Angural Naveen Gupta	production of novel thermo-alkali-stable laccase from <i>Bacillus tequilensis</i> SN4 in submerged fermentation	Proceeding of International Conference on Recent Advances in Engineering and technology					
28.	Prakram Singh Chauhan and Naveen Gupta	Insight into Microbial mannosidases: A review.	Critical review in Biotechnology	37(2)	190-201	Jan 2016	0738-8551	9.062
27.	Naveen Gupta, Prakram Singh Chauhan, Satya Prakash Tripathi, Abhays T. Sangamwar, Neena Puri, Prince Sharma	Cloning, molecular modeling and docking analysis of alkali thermostable Beta mannanase from <i>Bacillus nealsonii</i> PN-11	Applied Microbiology and Biotechnology	99	8917-8925	May 2015	0175-7598	5.560
26.	Vijaya Gupta , Shruti Garg, Neena Caplash , Naveen Gupta and Prince Sharma	Production of thermo-alkali-stable laccase and xylanase by co-culturing of <i>Bacillus</i> sp. and <i>B. halodurans</i> for biobleaching of kraft pulp and deinking of waste paper	Bioprocess and Biosystems Engineering	38	947-956	Dec 2014	1615-7591	3.434
25.	Sonica Sondhi, Prince Sharma, Shilpa Saini, Neena Puri and Naveen Gupta	Purification and characterization of a novel thermo-alkali stable, metal tolerant laccase from <i>Bacillus tequilensis</i> SN4	Plos One	9(5)	e96951	May 2014	1932-6203	3.752
24.	Nancy George, Prakram Singh Chauhan, Vivek Kumar, Neena Puri and Naveen Gupta	An approach to ecofriendly leather: characterization and application of an alkaline protease for chemical free dehairing of skin and hides at pilot scale	Journal of Cleaner Production	79	249-257	Sep 2014	0959-6526	11.072

23.	Sonica Sondhi Prince Sharma, Nancy George Prakram Singh Chauhan, Neena Puri and Naveen Gupta	An Extracellular Thermo-Alkali- Stable Laccase from <i>Bacillus tequilensis</i> SN4 having potential to biobleach softwood pulp	3Biotech	5(2)	175-185	March 2014	2190- 5738	2.893
22.	Prakram Singh Chauhan, Prince Sharma, Neena Puri and Naveen Gupta	Purification and characterization of an alkali thermostable β - mannanase from <i>Bacillus nealsonii</i> PN-11 and its application in manooligosacchar- ides and Preparation Having Prebiotic Potential	European Food Research and Technology	238	927-936	June 2014	1438- 2385	3.498
21.	Nancy George, Sonica Sondhi, SK Soni and Naveen Gupta	Lime and sulphide free dehairing of animal skin sing collagenase free alkaline protease from <i>Vibrio</i> <i>metschnikovii</i> NG155.	Indian Journal of Microbiology	54(2)	139-142	June 2014	0046- 8991	2.461
20.	Prakram Singh Chauhan, Neena Puri, Prince Sharma and Naveen Gupta	A Process for Reduction in Viscosity of Coffee Extract by Enzymatic Hydrolysis of Mannan	Bioprocess and Biosystem Engineering	37	1459- 1467	Sep 2014	1615- 7591	3.434
19.	Nancy George, Prakram Singh Chauhan, Neena Puri and Naveen Gupta	Statistical optimization of process parameters for production of alkaline protease from <i>Vibrio</i> <i>metschnikovii</i> NG15 5 having application in leather industry.	International Journal of Pharm and Bio Sciences	5	509-517	Jan 2014	0975- 6299	0
18.	Prakram Singh Chauhan, Nancy George, Sonica Sondhi, Neena Puri and Naveen Gupta	An overview of purification strategies for microbial mannanases.	International Journal of Pharma and Bio Sciences	5	176-192	Jan 2014	0975- 6299	0

17.	Prakram Singh Chauhan, Sanjeev Kumar Soni, Prince Sharma, Archita Saini and Naveen Gupta	A mannanase from <i>Bacillus nealsonii</i> PN-11: Statistical optimization of production and application in Biobleaching of pulp in combination with Xylanase	International Journal of Pharma and Bio Sciences	5	237-251	2014	0975-6299	0
16.	Prakram Singh Chauhan, Aditya Bhardwaj, Neena Puri and Naveen Gupta	Optimization of medium composition for alkali-thermostable mannanase production by <i>Bacillus nealsonii</i> PN-11 in submerged fermentation	International Journal of Current Microbiology and Applied Sciences	3 (10)	1033-1045	2014	2319-7706	0
15.	Deepak Kumar, Prakram Singh Chauhan, Neena Puri and Naveen Gupta	Production of alkaline thermostable protease by immobilized cells of alkalophilic <i>Bacillus sp.</i> NB-34	International Journal of Current Microbiology and Applied Sciences	3	1063-1080	Nov 2014	2319-7706	0
14.	Aditya Bhardwaj, Neena Puri, Prakram Singh Chauhan, Balneek Singh Cheema and Naveen Gupta	Studies on alkaline thermostable protease from an alkalophilic bacterium : Production, Characterization and Applications	International Journal of Environmental Sciences	5	353-371	Sep 2014	0976-4402	0
13.	Nancy George, Prakram Singh Chauhan, Sonica Sondhi, Shilpa Saini Neena Puri and Naveen Gupta	Biodegradation and Analytical Methods for Detection of Organophosphorous Pesticide: Chlorpyrifos.	International Journal of Pure Applied Science and Technology	20	79-94	Feb 2014	2229-6107	0
12.	Fantahun Woldesenbet , Antar Puneet Virk, Naveen Gupta and Prince Sharma	Biobleaching of mixed wood kraft pulp with alkalophilic bacterial xylanase, mannanase and laccase-mediator system.	Journal of Microbiology and Biotechnology Research	3 (4)	32-41	2013	2231-3168	0
11.	Fantahun Woldesenbet, Naveen Gupta and Prince	Statistical optimization of the production of a cellulase-free,	Archive Applied Science Research	4	524-535	2012	0975-508X	0

	Sharma	thermoalkali-stable, salt- and solvent-tolerant xylanase from <i>Bacillus halodurans</i> by solid state fermentation.						
10.	Prakram Singh Chauhan Neena Puri, Prince Sharma and Naveen Gupta	Mannanases: microbial sources, production, properties and potential biotechnological applications.	Applied Microbiology and Biotechnology	93	1817-1830	March 2012	0175-7598	5.56
9.	Fantahun Woldesenbet , Antar Puneet Virk, Naveen Gupta and Prince Sharma	Effect of Microwave irradiation on xylanase production from wheat bran and biobleaching of Eucalyptus Kraft Pulp	Applied Biochemistry and Biotechnology	167	100-108	April 2012	0273-2289	3.094
8.	Karuppaasamy i Manikandan, Amit Bhardwaj, Naveen Gupta , Neratur K. Lokanath, Amit Ghosh, Vanga Siva Reddy and Surya Narayana Rao Ramakumar	Crystal Structure of native and xylosaccharides-bound alkali thermostable xylanase from an alkalophilic <i>Bacillus sp.</i> NG-27: Structural insights into alkalophilicity and implications for adaption to polyextreme conditions.	Protein Science	15 (8)	1951-1960	August 2006	1469-896X	6.993
7.	Sadhu Leelavathi, Naveen Gupta , Shankar Maiti, Amit Gosh and Vanga Siva Reddy	Over production of an alkaline and thermostable xylanase in tobacco chloroplast and efficient recovery of the enzyme	Molecular Breeding	11	59-67	Jan 2003	1380-3743	3.297
6.	Poonam Bogra, Naveen Gupta and Sameer Makkar	Biofilms in dental Unit Waterlines	Journal of The Indian Dental Association			2002		
5.	Naveen Gupta , Vanga Shiva Reddy, Sankar Maiti	Cloning, expression and sequence analysis of the gene encoding the alkali-	Applied and Environmental Microbiology	66 (6)	2631-2635	June 2000	0099-2240	5.005

	and Amit Ghosh	stable, thermostable endoxylanase from alkalophilic mesophilic <i>Bacillus</i> sp. strain NG-27						
4.	Sharmila S. Mande, Naveen Gupta, Amit Gosh and Shekhar C Mande	Homology model of a Novel xylanase: Molecular basis for high thermostability and alkaline stability	Journal of Biomolecular Structure & dynamics	18	137-144	Jan 2000	0739-1102	5.235
3.	M. Thungapathra, C. Sharma, Naveen Gupta, R.K. Ghosh, A Mukhopadhyay A, H. Koley, G. Balakrish Nair and Amit Ghosh	Construction of recombinant live oral vaccine from a non-toxigenic strain of <i>Vibrio cholerae</i> 01 serotype Inaba biotype El Tor and assessment of its reactogenicity and immunogenicity in the rabbit model	Immunology letters	68(2 -3)	219-227	June 1999	0165-2478	4.23
2.	Basu A, Mukhopadhyay AK, Sharma C, Jyoti J, Naveen Gupta, Ghosh A, Bhattacharya SK, Takeda Y, Fraque ASG, Albert MJ and Nair GB	Heterogeneity in the organisation of the CTX genetic element in strains of <i>Vibrio cholerae</i> 0139 Bengal isolated from Calcutta, India and Dhaka, Bangladesh and its possible link to the dissimilar incidence of 0139 cholera in the two locales	Microbial pathogenesis	24 (3)	175-183	March 1998	0882-4010	3.848
1.	Naveen Gupta, R.M. Vohra and G.S. Hoondal	A thermostable extracellular Xylanase from alkalophilic <i>bacillus</i> sp. NG-27	Biotechnology Letters	14	1045-1046	Nov 1992	0141-5492	2.716

Detail of patents:

	International Patents	
Granted		3
	National patents	
Granted		1
Filed		3

S. No.	Patent Title	Name of Applicant(s)	Application No./Publication No./ Grant –Patent No	Award Date	Agency/ Country	Status
PATENT GRANTED/ FILED						
International Patents Granted						
1.	V. Cholera Vaccine.....	Thunghapatra Muthukumarappa Amit Ghosh Charu Sharma Naveen Gupta Ranjit Kumar Ghosh, Asish Mukhopadhyay Hemanata Kole GB Nair	1997370496/ 1999098987/4086945	29/02/2008	Japan	Granted
2.	Process for the isolation of a nontoxinogenic <i>Vibrio cholera</i> strain and a process for preparing cholera vaccine from said <i>Vibrio cholera</i> strain	Thunghapatra Muthukumarappa Amit Ghosh Charu Sharma Naveen Gupta Ranjit Kumar Ghosh, Asish Mukhopadhyay Hemanata Kole GB Nair	09243810/ 6106843/6106843	22/08/2000	USA	Granted
3.	Cholera organisms, vaccines and preparation thereof	Thunghapatra Muthukumarappa Amit Ghosh Charu Sharma Naveen Gupta Ranjit Kumar Ghosh, Asish Mukhopadhyay Hemanata Kole GB Nair	97309957.5/ EP0928831	03/05/2006	Great Britain Spain, Switzerland Sweden	Granted
National Patents Granted						
1.	A process for the preparation of a recombinant strain of <i>Bacillus</i> which produces a thermostable, alkali stable xylanase.	Naveen Gupta and Amit Ghosh	2308/DEL/1996/ 185709	29/11/2001	India	Granted

National Patents Filed						
1.	A process for biobleaching of fabric using laccase	Naveen Gupta , Prince Sharma, Sonica, Deepak, Aditya	201711014013/...	26/10/2018	India	Filed
2.	A process for the production of laccase enzyme and of pulp biobleaching employed said enzyme	Naveen Gupta , Prince Sharma, Sonica, Deepak, Aditya, Steffy, Monika Rana	202011001901/....	23/07/2021	India	Filed
3.	A process for the production of laccase enzyme and of pulp biobleaching employed said enzyme	Naveen Gupta , Prince Sharma, Sonica, Deepak, Aditya, Steffy, Monika Rana	202011001901	16/01/2020	India	Filed

Books/ Reports/ Chapters/ General articles etc.:

S. No.	Title	Author(s) Name	Publisher	Year of Publication	ISBN No.	Level
1.	Microbial Proteases: Sources and biotechnological applications. Emerging trends in Microbial Biotechnology (Eds) R C Sobti, Prince Sharma, Sanjeev Puri	Nancy George, Prakram Singh Chauhan, Sonica Sondhi, Neena Puri and Naveen Gupta	Narendra publishing House, Delhi India	2016 (Reprint in 2017)	978-93-84337-58-2	National
2.	Xylanases for Green Technology in pulp and paper industry. In: Microbial enzymes and processes in healthcare, environment and industry (Eds) R C Sobti, Prince Sharma, Sanjeev Puri.	Fantahun Woldesenbet, Naveen Gupta , Neena Caplash and Prince Sharma	Narendra Publishing House	2016 (Reprint in 2017)	978-93-84337-58-2	National
3.	Optimization of the production of	Sonica Sondhi,	Shri guru Granth Sahib	2016	978-81-929890-1-3	National

	novel thermo-alkali-stable laccase from <i>Bacillus tequilensis</i> SN4 in submerged fermentation (Eds) Kanwaljeet Singh	Deepak Kumar, Steffy Angural and Naveen Gupta	World University			
4.	Production of an alkaline protease by <i>Vibrio metschnikovii</i> Isolate and its application as a dehairing agent	Nancy George, Prakram Singh Chauhan, S.K. Soni, D.K. Rahi and Naveen Gupta	Word Congress in Biotechnology Hyderabad	2011	Doi: 10.4172/2157-7013.1000001	National
5.	Food borne diseases	Neena Puri and Naveen Gupta	e- path Shala (Online M.Sc. food technology course by UGC)	2014		
6.	Microbial spoilage of food	Neena Puri and Naveen Gupta	e- path Shala (Online M.Sc. food technology course by UGC)	2014		

Research Projects:

Agency	Title	Cost in Lakh	Duration	PI
Industrial biotechnology project	Development of broad-spectrum candidate vaccines and monoclonal antibody(ies) (or mAbs) against pathogens	30,00,000	2021-2024	Dr. Naveen Gupta (Co-PI)
DST-UT Chandigarh	To study and compare the sewage treatment at various STPs in Chandigarh and evaluation of tertiary treated water at UGRs and supply chain	2,50,000	2022-2023	Dr. Naveen Gupta
DST-UT Chandigarh	Pharmacological and phytochemical evaluation of flowers of <i>Butea monosperma</i> (State Flower of Chandigarh): Prospects for Agroforestry	2,00,000	2021-2022	Dr. Naveen Gupta (Co-PI)
DST-UT Chandigarh	An integrated approach to study the ecology and assessment of	1,50,000	2021-2022	Dr. Naveen Gupta

	environmental and health risk of landfill site of Chandigarh (Evaluation of impact on water, soil, air and health)			
DST & RE, Chandigarh Administration	Ecological Assessment of Sukhna Lake Chandigarh-Analysis of Physiochemical and Microbiological parameters to Monitor the pollution level	2,50,000	2020-2021	Dr. Naveen Gupta
DST-SSTP	Process scale up for enzymatic dehairing of skin as an alternative to chemical dehairing for leather industry of Punjab	26,93,000	2019-2021	Dr. Naveen Gupta
DST-UT Chandigarh	To study microbial biodiversity of air of Chandigarh and impact of waste dumping sites and sewage treatment plants on microbiological contamination of air	2,00,000	2019	Dr. Naveen Gupta
DST-UT Chandigarh	To develop a bioremediation strategy for the management of weed growth at sukhna lake Chandigarh	1,50,000	2017-18	Dr. Naveen Gupta
DST-UT Chandigarh	Analysing the source/s of bad odour in treated water of STP/s of Chandigarh at various outlets and standardizing prototype procedure/s for its effective removal	1,25,000	2016-2017	Dr. Naveen Gupta
UGC	Bioremediation of waste water from pulp and textile industry using novel bacteria/enzymes	19,91,390	2015-2018	Dr. Naveen Gupta
DBT	Applications of a bacterial laccase for waste paper recycling by De-inking and for biobleaching of pulp and paper industry	33,50,696	2015-2018	Dr. Naveen Gupta (Co-PI)
Dept. of Environment UT- Chandigarh	To study the performance of various sewage treatment plants in UT Chandigarh	2,53,000	2015-2016	Dr. Naveen Gupta
Dept. of Environment UT- Chandigarh	To develop a microbiological technology for the reduction of nutrients like nitrates and phosphates in treated sewage water to make it suitable for the management of Sukhna Lake Chandigarh.	4,49,650	2012-2013	Dr. Naveen Gupta
DST- UT Chandigarh	Harvested rain water as an efficient source of drinking water: Effect of different parameters on the microbiological/ chemical quality of the water.	1,00,000	2012-2013	Dr. Naveen Gupta
DBT	Optimizing the production of highly	16,54,400	2008-2011	Dr. Naveen

	alkali and thermostable xylanase from alkalophilic <i>Bacillus</i> sp. NG-27 and standardizing the conditions for the industrial use			Gupta
UGC-SAP	Novel enzymatic approaches in industrial processes and biotherapeutics	19,28,258		Dr. Naveen Gupta (Deputy Coordinator)

Consultancy:

S. No	Company/ Institution	Tenure	Assignment	Amount
1.	Multinational company	1 Year	Evaluation enzyme-based cosmetics for commercial use	8,26,000
2.	Municipal Corporation Chandigarh	3 Years	Consultancy for monitoring: The commissioning of aspirator-type process aeration/mixer for tertiary treated water in UGRs in Chandigarh along with operation and maintenance for 3 years	4,72,000
3.	Municipal Corporation Chandigarh	2Months	Consultancy for vetting of detailed estimate: The commissioning of aspirator type process aeration/mixer for tertiary treated water in UGRs in Chandigarh along with operation and maintenance for 3 years	88,500
4.	AAR VEE Healthcare, Chandigarh	3 Months	Consultancy for: Evaluation of the antibacterial potential of the product safe shield (Microbes)TM	67,850+ Air Sampler (Approximate cost 1.25 Lac
5.	NANOSHELL (Intelligent Materials Pvt. Ltd. -Delaware USA, Regional Office at Dera Basi, Punjab)	4 Year	Technical consultancy for Microbiology and Biotechnology for developing nanoparticles	1,07,864
6.	Omega Test House	4 Year	Technical consultancy for Microbiology and Biotechnology for testing Pharmaceutical and industrial samples	1,07,864

12. Teaching experience

S.No.	Name of the Institute	Positions held	From	To
1.	D.A.V. Centenary Dental College, Yamuna Nagar, Haryana	Lecturer	26/07/1997	31/03/1998
2.	D.A.V. Centenary Dental College, Yamuna Nagar, Haryana	Sr. Lecturer	1/04/1998	31/03/2003
3.	D.A.V. Centenary Dental College, Yamuna Nagar, Haryana	Associate Professor	1/04/2004	29/03/2006
4.	Panjab University, Chandigarh	Assistant Professor	17/04/2006	

13. Professional Recognition/ Award/ Prize/ Certificate/ Fellowship received by the applicant

Sr. No.	Name of the Award	Awarding Agency	Year
1	Award for Scientific innovation (For doing Applied research Patent etc.)	Centre for Industrial Institute Partnership Programme P.U., Chandigarh	2012
2.	Award for Continuous Achievement in Research	Panjab University teachers Association (PUTA)	2014
3.	Achieved Best Unit Award for Association of Microbiologists of India Chandigarh Unit as Secretary of the AMI-Chd Unit	Association of Microbiologists of India (AMI)	2015
4.	Achieved Best Unit Award for Association of Microbiologists of India Chandigarh Unit as Secretary of the AMI-Chd Unit	Association of Microbiologists of India (AMI)	2016
5.	Achieved Best Unit Award for Association of Microbiologists of India Chandigarh Unit as Secretary of the AMI-Chd Unit	Association of Microbiologists of India (AMI)	2017
6.	Achieved Best Unit Award for Association of Microbiologists of India Chandigarh Unit as Secretary of the AMI-Chd Unit	Association of Microbiologists of India (AMI)	2018
7.	Achieved Best Unit Award for Association of Microbiologists of India Chandigarh Unit as Secretary of the AMI-Chd Unit	Association of Microbiologists of India (AMI)	2019
8.	Achieved Best Unit Award for Association of Microbiologists of India Chandigarh Unit as Secretary of the AMI-Chd Unit	Association of Microbiologists of India (AMI)	2020
9.	Co-coordinator of UGC-SAP programme	Department of Microbiology, P.U., Chd.	2016-21
10	Consultant to Municipal Corporation Chandigarh for the management of treated sewage water		
11.	Invited member of DST committee for monitoring research project at Avantha Center for Industrial Research and Development Yamuna Nagar		
12.	Invited member of Sukhna Lake conservation committee Chandigarh		
13.	Organized number of conferences and workshops.		
14.	Associated with various outreach programs.		
15.	Members of various committees: IQAC, RDC, RMC, Academic, Administrative, Purchase, technical, BOS etc. at Dept. of Microbiology, P.U. Chandigarh and DAV Dental College, Yamuna Nagar		
16.	Atal Kavya Ratan Award for Hindi/Urdu poetry		

Any other information

PI and his group have extensive experience on industrial enzymes. They have already transferred some technologies to the industry. They have granted International and National patents and publications in journals of high repute.

Most of the Research is applied and is being carried out in collaboration with industries in various fields e.g.

Bioleaching of pulp

Enzyme based cosmetics

Food processing (bread, coffee, fruit juice)

Processing of denim in textile industry

Research is also being carried out in molecular biology

Collaboration with various industries and institutes

Collaborations Industries

- BILT, Yamuna Nagar
- Kuantum Papers Ltd, Hoshiarpur
- JD Tanneries, Jalandhar
- Shri Ram Enterprises, Ludhiana,

Chandigarh Administration

- Processing of sewage water for management of Sukhna Lake, Chandigarh
- Monitoring the sewage treatment plants, Chandigarh
- Process for the removal of foul smell from treated sewage

Institutions

- NRCP, IARI
- Regional Centre of CLRI Jalandhar
- NIPER Mohali
- PGI, Chd
- Chd Administration
- Municipal Corporation Chandigarh

Administrative Responsibilities

- **Co-coordinator of UGC-SAP programme of Department of Microbiology, P.U., Chd**
- Members of various committees: IQAC, RDC, RMC, Academic, Administrative, Purchase, technical, BOS etc. at Dept. of Microbiology, P.U. Chd. and DAV Dental College, Yamuna Nagar
- Member RDC of Department of Microbial Biotechnology
- **Secretary Chandigarh Unit of Association of Microbiologists of India**
(Under the leadership Chandigarh unit got best unit award in the country in 2015, 2016, 2017, 2018 and 2019)
- Invited member of DST committee for monitoring research project at Avantha Center for Industrial Research and Development Yamuna Nagar
- Invited member of Sukhna Lake conservation committee Chandigarh
- HOD of Department of Microbiology at DAV Dental College, Yamuna Nagar
- Reviewer for various International and National Journals
- Organized number of conferences and workshops.
- Associated with various outreach programs.

