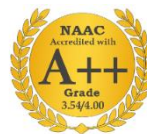





SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist - 626115.



Department of Biotechnology					
Name	Dr. N. PRABHU				
Date of Birth	18.01.1993				
Unique ID	1-3175753242				
Educational Qualifications	M.Tech., Ph.D.				
Designation	Associate Professor				
Email ID	prabhu.aut.26@gmail.com				
Alternate Email ID	prabhubiotech@sethu.ac.in				
Experience	Industry	Teaching	Others	Total	
	-	9	-	9	
Date of Joining the Institution	19.06.2024				
Area of Specialization	Biotechnology				
Courses taught	Fluid Mechanics and Heat Transfer Operation, Mass transfer operation				
Research Focus	Microbial Biotechnology, Environmental Biotechnology				
Subject Competency					
No. of papers published	National Journals	International Journals		Conferences	
	nil	40		10	
PG Specialization	Biotechnology				
Ph.D.Specialization	Biotechnology				
Projects Carried out	4				
Patents (Filed & Granted)	5				
Technology Transfer	01				
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	12				



Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.Tech	Biotechnology	Anna University, Chennai	2014
PG	M.Tech	Biotechnology	Anna University, Chennai	2016
Ph.D.	Ph.D.	Biotechnology	Anna University, Chennai	2021

Details of Journal Publication:

S. No	Title of the paper	Author(s)	Name of the Journal	Year Vol. (No): Page
1.	Synthesis, Characterization, and Pharmacological Evaluation of Metal-Chelating Compounds for Neuroprotection in Oxidative Stress-Induced Neuronal Damage	Padmanath Pegu , Ekta Pandey , Shaik Sadik , Anil Kumar , Ekbal Ali Molla , N Prabhu , Viabhav Kumar Upadhayay , Ashok Kumar BS , Sanmati Kumar Jain*	Cuestiones de Fisioterapia	2025, 54 (4), 603-621
2.	An Experimental Study on Phytochemical Screening and Evaluation of Invivo Antiinflammatory Activity of <i>Andrographis Paniculate</i>	Dr. Roshni Tandey, Mrs. Jyoti Pandey, Dr. Mo. Rahil G. Bhura, Dr. Anil Kumar, Dr. Ekta Pandey, Dr. Pooja Khanpara, Mr. Koustav Dutta, Dr. Sanmati Kumar Jain, Dr. N. Prabhu	Frontiers in Health Informatics	2024, 13 (6), 352-360
3.	Physical and chemical characterization of alkaline protease from <i>Bacillus subtilis vbc7</i> using agro waste as substrate: Characterization of alkaline protease	Ramalingam Kowsalya, Nandhi Prabhu , Murugan Rajamehala, Mookkandi Vijay Pradhap Singh, Selvaraj Karthikadevi	Journal of microbiology, biotechnology and food sciences	2022, 12(3), e5301
4.	Statistical optimization of cellulase production and its efficacy in hesperidin extraction from orange peel and bioethanol production from rice straw by simultaneous saccharification and fermentation	Kowsalya Ramalingam, Prabhu Nandhi , Rajamehala Murugan, Rama Venkatesan	Research Journal of Biotechnology	2022, 17 (8), 20-31
5.	Evaluation of Phytochemicals and Histochemicals of <i>Cyperus rotandus</i> and Its Thrombolytic Activity	N. Prabhu , R. Kiruthiga, R. Kowsalya, S. Jeevitha, M. Vijay Pradhap Singh, A. Archana and T. Gajendran	Journal of Pharmaceutical Research International	2022, 34 (8B): 18-30
6.	Evaluation of Genoprotective Activity of <i>Indigofera tinctoria</i> using <i>Allium cepa</i> Root	N. Prabhu , D. Harshini, A. Gowsalya, J. Rekha, M. Rajamehala, P. Jeyavel Karthick and T. Gajendran	Journal of Pharmaceutical Research International	2022, 33 (60B): 2958 - 2972
7.	Biogas as a value generation from dairy industrial waste water	Shareen Fathima M Hiritha N Mounika M Sureja A Prabhu N	International Journal of Advanced Research in Science,	2022, 2 (2); 619-630

			Communication and Technology	
8.	Production of Biofertilizer from Industrial Waste Water by Microalgal Treatment	Mounika M, Sureja A, Shareen Fathima M, Hiritha N, Prabhu N	International Journal of Advanced Research in Science, Communication and Technology	2022, 2 (2); 607-618
9.	A Newly Synthesized Silver Nanoparticles Mediated Phytomedicine from <i>Linum usitatissimum</i> for Dental Caries	P. Bhuvaneshwari , P. Vinoba, N. Prabhu, M. Vijay Pradhap Singh , M. Rajamehala and A. Archana	Journal of Pharmaceutical Research International	2021, 33 (55B): 150-160
10.	Utilization of sugarcane bagasse for enhancement production of fibrinolytic enzyme using statistical approach	N. Prabhu , T. Gajendran, S. Karthikadevi A. Archana, R. Arthe	Cleaner Engineering and Technology	2021, 5; 1-7
11.	Exploration of new effective fibrinolytic agent from <i>Alcaligenes aquatilis</i> PJS_1 from polluted soil	N. Prabhu , K. Sangeetha, C. Jayanthi and T. Gajendran	Journal of Environmental Biology	2020, 41, 572-580
12.	Investigation Of Novel Biological Pretreatment For Microbial Infection Control In Organic Mushroom Cultivation	Karunakaran S, Prabhu N , GajendranTholan, Manivasagam Veerasamy.	International Journal of Aquatic Science	2021 & 12 (3), 57- 68
13.	Production and purification of extracellular pullulanase by <i>Klebsilla aerogenes</i> NCIM 2239	N. Prabhu , R. Uma maheswari, M. Vijay Pradhap Singh, S. Karunakaran, C. Kaliappan and T. Gajendran	African Journal of Biotechnology	2018; 17(14): 486-494
14.	Sequestration of Potential Enzymes from Mushrooms compost waste	G Surendran, S Karunakaran, N Prabhu , S Karthika Devi and T Gajendran	IOP Conference Series: Materials Science and Engineering	2021 & 1145, 1-10
15.	A review: botanical pesticide an ecofriendly approach	R.Naseema, K. Gilbert Ross Rex, R.S. David Paul Raj & N. Prabhu	International Journal of Mechanical and Production Engineering Research and Development	2020, 10(3), 2545-2550
16.	Sequestration and purification of essential enzymes from <i>Pleurotus florida</i> compost waste and its application studies	S Karthika Devi, N Prabhu* , S Monika, N M Swapna, S Vaishali, T Gajendran	Journal of Applied Biology & Biotechnology	2020, 8(1), 64-68
17.	Current Trends and Perspectives	Rajamehala M , Hema	International	2020, 8

	of Biogas Production from Different Substrate	K,Abinaya B, Prabhu N	Journal of All Research Education and Scientific Methods	(11), 370-379
18.	Isolation and characterisation of lumbrokinase from different species of earthworm	P. Jeyavel Karthick, A. Hemavathi, M. Bhuvanasree,A. Angumani, N. Prabhu	Research Journal of Agriculture & Forestry Sciences	2020, 8(3), 57-60.
19.	Fabrication of Electricity from Wastewater by Utilizing Microbial Fuel Cells: A Review	• Bhavya R, Pavithra V, Aarthi S, Dharani K, Prabhu N	International Journal for Research in Applied Sciences and Biotechnology	2020, 7(3), 1-12
20.	A Review on Production of Polygalacturonase Using Various Organisms and Its Applications	A. Radha, R. Sneha, R. Kiruthiga, P. Priyadharshini and N. Prabhu	Asian Journal of Biotechnology and Bioresource Technology	2019, 5(3): 1-12
21.	Review on Manufacturing of Cellular Polymers and Its Applications	Kanaga Madhura N, Harshini D, Sneha J, Gnanavel G, Prabhu N*	IOSR Journal of Polymer and Textile Engineering	2019, 6 (5): 09-22
22.	A Review on green synthesis of silver nanoparticles, characterization techniques and its medical applications	N Prabhu, C Keerthi, S Shruthi, SK Sangeetha, S Jeevitha	European Journal of Biotechnology and Bioscience	2019, 7(6): 10-22
23.	Molecular docking and green synthesis of silver nanoparticles using <i>Aeglemarmelos</i> and it's antibacterial activity	Subasri S, Abilasha S, Poovizhi A, Gilbert Ross Rex K, Prabhu N	European Journal of Biotechnology and Bioscience	2019, 7(6): 01-09
24.	Overview of differentiation of mesenchymal derived stem cell into insulin producing cells and their clinical issues in transplantation	Prabhu N, Nivedha S, Aparna MT, Angel Romila K, Jeyavel Karthick P	European Journal of Pharmaceutical and Medical Research	2019,6(11) : 445-451
25.	Sequestration and purification of laccase, catalase and lipase from oyster mushroom (<i>Pleurotus florida</i>) compost waste and its application studies	Prabhu N, Gajendran T, Karthika Devi S, Kavitha K, Shalini K, Vaishali S	European Journal of Biotechnology and Bioscience	2019, 7(6): 23-29
26.	Comparison studies on lipase production using immobilized <i>Exiguobacterium aestuari</i> by repeated batch bioreactor	Prabhu N, Gajendran T, Kokilavani A, Dhanapriya S, Preetha K	European Journal of Biotechnology and Bioscience	2019, 7(6): 30-37
27.	A Review on Bioreactor Technology Assisted Plant Suspension Culture	Renugaa Su, M. Sujarani, P. Shalini and N. Prabhu*	Asian Journal of Biotechnology and Bioresource Technology	2019, 5(3): 1-13
28.	A review on successive	Prabhu N*, Gajendran T,	European	

	generations of nattokinase based fibrinolytic agent	Ravi Shankar K, Sandhiya Devi P, Srimathi K and Rajapriya P.	Journal of Pharmaceutical and Medical Research	2019,6(11) : 170-175
29.	Electricity production from <i>Rhizobium sp.</i> Biofertilizer enriched soil using microbial fuel cells	N Prabhu* , M Abitha, E Ilakkiya, V Parvatham, P Thovarne, P JeyavelKarthick	European Journal of Biotechnology and Bioscience	2019, 7 (5): 93-98
30.	Review on nomenclature and classification of lipoxygenase and its medical applications	R Indhusri, A Afrin, A Gowsalya, M Neevika, S Chozhavendhan, N Prabhu	European Journal of Biotechnology and Bioscience	2019, 7 (5): 86-92
31.	Review on Production of Bioethanol and Its Future Prospects	R. C Kalki, K.VanithaKani, S. LaxmiPriyadharshini, A. Muthu Kumara Pandian, N. Prabhu*	IOSR Journal Of Pharmacy And Biological Sciences	2019, 14 (5): 42-48
32.	Narrative review of present indication on Vitamin d and its deficiency	G. Prathisa, T. Maneeswari, U. Agnes Udhaya, M. Rajamehala, N. Prabhu	World Journal of Pharmaceutical Research	2019, 8 (11): 530-541.
33.	A Review on types of polymerase chain reaction for diagnosis and cloning technique	Anushya.C.,Soumiy a.P.R., Swetha.K, N. Prabhu	European Journal of Biotechnology and Bioscience	2019, 7 (5): 80-85
34.	Analysis of anti-inflammatory activity in medicinal plants	A.K.Poovizhi, S. Monika, N. M. Swapna, P. JeyavelKarthick, N. Prabhu*	International Journal of Recent Scientific Research	2019, 10 (09), 35039-35045
35.	Review on monoclonal antibodies treatment for multiple sclerosis	A. KaviPraba, S. Vibitha, A. Anitha, A. Archana and N. Prabhu*	International Journal of Modern Pharmaceutical Research	2019, 3(4), 53-59
36.	Comparison study on production of 2, 3-butanediol using batch flask fermentation from two different microorganisms	N. Prabhu , T. Gajendran, B. Kartika, S. Monisha, S. Saarumathi	International Research Journal of Biological Sciences	2019; 8(6), 7-11
37.	Biogenic synthesis of myconanoparticles from mushroom extracts and its medical applications: a review	N. Prabhu , S. Karunakaran, S. Karthika Devi, R. Ravya, P. Subashree, M. Senthil Vadivu	International Journal of Pharmaceutical Sciences and Research	2019; 10(5): 2108-2118.
38.	Biosynthesis and Characterization of silver nanoparticles from <i>Acacia auriculiformis</i> flower extract	N. Prabhu , T. Gajendran, V. Shiney, S. Keerthana, J. NaveenaBhashini	International Journal of Modern Science and Technology	2018; 3(10):213-219
39.	Isolation of Coelomic Fluid from Earthworm and its Antibacterial Activity	N. Prabhu , K. Divya, R. Keerthana, S. Prithivi, M. Suganya	International Journal of Modern Science and Technology	2018; 3(5): 112-116

40.	Green Synthesis of Noble Metal of Platinum Nanoparticles from <i>Ocimum sanctum</i> (Tulsi) Plant-Extracts	N. Prabhu, T. Gajendran	IOSR Journal of Biotechnology and Biochemistry (IOSR-JBB)	2017; 3(1): 107-112.
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Details of Conference attended:

S. No	Title of the paper	Name of the conference	Place, Date
1	Decolorization of industrial effluent dyes using laccase from oyster mushroom (<i>Pleurotus florida</i>) compost waste: A Sustainable Approach	International conference on Biomass, Fuel and Chemicals 2019	Annamalai University, Chidambaram, September 12 & 13, 2019
2	Sequestration and purification of industrial enzymes from oyster mushroom compost waste and its application studies	Bioflair 2019	Pavendar Bharathidasan college of Engineering and Technology, Trichy, 6-8th March 2019
3	Green synthesis of silver nanoparticles for antimicrobial agent derived from novel source of <i>Pleurotus florida</i> extracts	National Conference svasthya 2018	Rajalakshmi Engineering College, Chennai, 26 th &27 th Sep 2018
4	Isolation and purification of industrial enzymes from oyster mushroom compost wastes and its application studies	National Conference on Biotechnology for Sustainable Development	Arunai Engineering College, Tiruvannamalai, 16& 17 March 2018
5	Investigation and formulation of biological fungicide using plant extracts for mushroom cultivation	ICTDAEEGW '18	Vivekananda College of Engineering for Women, Namakkal, 20 th -21 st Feb 2017
6	Exploration of new effective fibrinolytic agent (Nattokinase) from microorganisms	ICTDAEEGW '18	Vivekananda College of Engineering for Women, Namakkal, 20 th -21 st Feb 2017
7	Isolation of coelomic fluid from earthworm and its antibacterial activity	ICTDAEEGW '17	Vivekananda College of Engineering for Women, Namakkal, 20 th -21 st Feb 2017
8	Biosynthesis of silver nanoparticles from <i>Pleurotus eousmus</i> and their efficacy against MRSA strains	RACE 2016	Annamalai University, 7 th October 2016
9	Biosynthesis of zinc nanoparticles from <i>Pleurotus floride</i> and its antibacterial activity	RACE 2016	Annamalai University, 7 th October 2016
10	Production and Purification of extracellular pullulanase by <i>Klebsilla aerogenes</i> NCIM2239	BEST 2015	Arunai Engineering College, Tiruvannamalai during 28-31 Jan 2015

Details of Book Chapter and Books Published:

S. No	Title	Author	Year	Publisher	ISBN No
1.	A Text Book of Introduction to Biochemistry	N. Prabhu S. Karunakaran R. Uma Maheswari S. Jeevitha	2018	Gems Publishers, Coimbatore	9789382323380
2.	Therapeutic Application Of Microorganisms	N. Prabhu, S. Karthika Devi, And T. Gajendran,	2020	Nova Science Publisher, USA	978-1-53619-062-5
3.	Comprehensive review of the prospectives and development for the production of bioalcohols using nanoparticles	N. Prabhu, S. Karthika Devi, And T. Gajendran,	2021	Elsevier	978-0-12-822401-4
4.	Current trend in the application of nanomaterials in biofuel and bioenergy	N. Prabhu, M. Narmatha, S.K. Ajithaa and G. Gowshikaa	2021	Elsevier	978-0-12-822401-4
5.	A nano-based biofuel: remedy to boost a sustainable and greener environment	M. Vijay Pradhap Singh, A. Archana, Sivasankaran Chozhavendhan, N. Prabhu and Murgan Rajamehala	2021	Elsevier	978-0-12-822401-4
6.	Biofertilizer from Industrial Waste Water by Microalgal Treatment	N. Prabhu, M. Mounika, A. Sureja, M. Shareen Fathima, and N. Hiritha	2023	Springer Nature	978-3-031-20822-5
7.	Biogas as a Value Generation from Dairy Industrial Waste Water	N. Prabhu, M. Shareen Fathima, N. Hiritha, M. Mounika, and A. Sureja	2023	Springer Nature	978-3-031-20822-5
8.	Myconanotechnology in agricultural and veterinary sector	N. Prabhu, M. Atchaya, R. Kiruthikadevi, A.V. Rithika, S. Jeevitha, S. Karunakaran	2023	Elsevier	978-0-443-15262-7
9.	Mycogenic nanoparticles and their biological applications: present status and prospective challenges	N. Prabhu, M. Vijay Pradhap Singh, M. Bhavya, B. Vandhana, P. Jeyavel Karthick , Ghazala Yunus	2023	Elsevier	978-0-443-15262-7
10	Myconanoremediation of various environmental toxicants: challenges and future perspectives	N. Prabhu, A. Archana, G. Someshwari, G. Priyanka, S. Livithra, S. Chozhavendhan and T. Gajendran	2023	IWA Publishing	9781789063783
11	Mycosynthesis of Nanoparticles and Their Application in Medicine	Prabhu, N., Nivetha, S., Pooja, G., Nivedhitha, B., Baskamary, M., Pooja, S.	2024	Springer, Cham	978-3-031-45956-6
12	Mycofabrication of Silver Nanoparticles: Synthesis, Characterization and Its Biological Applications	Prabhu, N., Deepika, K., Nandhini, S.M., Begam, S.A.	2024	Springer, Cham	978-3-031-45956-6

Details of Patents Filed and Granted:

Patents details	Date
Patent published entitled “Comparing and contrasting the immunity levels for both vaccinated and non-vaccinated people with covid-19 using machine learning approach” Patent No. 52/2021, Agency/Country : India	24.12.2021
Patent granted entitled “A method of producing bioplastics” Patent No. 11/2022, Agency/Country : India	18.03.2022
Patent (Design) granted entitled “ Health monitoring device” Patent No. 361838-002, Agency/Country : India	04.04.2022
Patent (Design) granted entitled “Microfluidic rapid and automatic analytical device to detect HIV from whole blood sample” Patent No. 423348-001, Agency/Country : India	16-07-2024
Patent published entitled “Fabrication of bioplastics from spent mushroom compost for food industry” Patent No. 202441099368 A, Agency/Country : India	27-12-2024

Expert Lecture Delivered:

Dr.N.Prabhu, shared experience in the mushroom cultivation methods used for the large-scale production at Nehru Arts and Science College, Coimbatore on 20.02.2023.