



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



Department of Biotechnology

Faculty Publications			
Academic Year	Journal Publication	Books/Book chapters Publication	Total Publication
2022-23 (Till Date)	3	0	3
2021-22	8	4	12
2020-21	8	4	12
2019-20	10	1	11
2018-19	6	0	6
2017-18	3	0	3

Student Publications			
Academic Year	Journal Publication	Books/Book chapters Publication	Total Publication
2022-23 (Till Date)	1	0	1
2021-22	2	2	4
2020-21	0	0	0
2019-20	1	0	1
2018-19	3	0	3
2017-18	1	0	1

Journals Publication Details – Academic Year 2022-23

S. No.	Academic Year	Title of the paper	Name of the Authors	Name of the Journal	Year of Publication	Scopus Indexed? (Y/N)	Web of Science Indexed? (Y/N)	Journal Ranking	DOI
1	2022-23 (Till Date)	Biologia Futura: treatment of wastewater and water using tannin-based coagulants.	Das, N., Shende, A.P., Mandal, S.K	BIOLOGIA FUTURA	2022	Yes	Yes	Q2	https://doi.org/10.1007/s42977-022-00128-1
2	2022-23 (Till Date)	Gut–Brain Axis, Neurodegeneration and Mental Health: A Personalized Medicine Perspective	Alisha Chunduri · S. Deepak Mohan Reddy · M. Jahanavi · C. Nagendranatha Reddy	Indian J Microbiol	2022	Yes	Yes	Q3	https://doi.org/10.1007/s12088-022-01033-w
3	2022-23 (Till Date)	Investigating ground water contamination due to land-fill leachate	M. Venkateswaralu, Kurapati Rajagopal, Y. S. Reddy, Chittepu Obula Reddy.	Indian Journal of Environmental Protection	2022	Yes	No	Q4	--

In the academic year 2022-23, the faculty of Biotechnology Department has published 03 research/review articles in peer reviewed International journals in the fields of Environmental Biotechnology, Medical Biotechnology

Journals Publication Details – Academic Year 2021-22

S. No.	Academic Year	Title of the paper	Name of the Authors	Name of the Journal	Year of Publication	Scopus Indexed? (Y/N)	Web of Science Indexed? (Y/N)	Journal Ranking	DOI
1	2021-22	Application of bioelectrochemical systems to regulate and accelerate the anaerobic digestion processes	C. Nagendranatha Reddy, Sanath Kondaveeti, Gunda Mohanakrishna, and Booki Min	Chemosphere	2021	Yes	Yes	Q1	https://doi.org/10.1016/j.chemosphere.2021.132299
2	2021-22	A critical review on valorization of food processing wastes and by-products for pullulan production	Bishwambhar Mishra, Yugal Kishore Mohanta, Sunita Varjani, Sanjeeb Kumar Mandal, Lakshmayya NSV, Preeti Chaturvedi, Mukesh Kumar Awasthi, Zengqiang Zhang, Raveendran Sindhu, Parameswaran Binod, Reeta Rani Singhanian, Vinod Kumar	Journal of Food Science and Technology	2022	Yes	Yes	Q2	https://doi.org/10.1007/s13197-022-05490-5
3	2021-22	Data visualization using marker-based augmented reality techniques	Chittepu Obula Reddy	Journal of Positive School Psychology	2022	Yes	Yes	Q2	--
4	2021-22	Antifungal Metabolites as Food Bio-Preservative:	Bishwambhar Mishra, Awdhesh Kumar Mishra, Sanjay Kumar,	Metabolites	2021	Yes	Yes	Q2	https://doi.org/10.3390/metabo12010012

		Innovation, Outlook, and Challenges	Sanjeeb Kumar Mandal, Lakshmayya NSV, Vijay Kumar, Kwang-Hyun Baek, Yugal Kishore Mohanta						
5	2021-22	Applications of microbial biofloculants for environmental remediation: An overview	Nilanjana Das, Ashwini Prabhakar Shende, Keerthana G, Sanjeeb Kumar Mandal	Research Journal of Pharmacy and Technology	2022	Yes	Yes	Q3	https://doi.org/10.52711/0974-360X.2022.00315
6	2021-22	Impact of various factors on the stability of biodiesel – a review	Kurapati Rajagopal, Y. S. Reddy, Chittepu Obula Reddy.	Journal of Biotech Research	2022	Yes	Yes	Q4	--
7	2021-22	Effect of semi batch and fed batch addition of glucose on alkaline protease production: A Multi-objective optimization approach.	Anitha Mogilicharla, V. Swapna, Rajasri Yadavalli	International Journal of Engineering Systems Modelling and Simulation	2022	Yes	Yes	Q4	--
8	2021-22	Interaction and Nanotoxic effect of metallic nanoparticles on bacterial strains.	Aruna, V.	Journal of Shanghai Jiaotong University	2022	No	No	--	--

Books/Book Chapters Publication Details – Academic Year 2021-22

Sl. No.	Name of the Authors	Title of the chapter	Title of the book	Name of the publisher	ISBN/ISSN Number	Year of publication	Academic Year	DOI
1	Varimadugu Aruna, A. Sneha, D. Sai Harshitha	Hepatocellular carcinoma—An updated review	Theranostics and Precision Medicine for the Management of Hepatocellular Carcinoma	Academic Press	9780323988063	2022	2021-22	https://doi.org/10.1016/B978-0-323-98806-3.00022-2
2	Arvind Bangaru, Kamasani Aarya Sree, Chandana Kruthiventi, Meenakshi Banala, Vadapalli Shreya, Y. Vineetha, A. Shalini, Bishwambhar Mishra, Rajasri Yadavalli, K. Chandrasekhar & C. Nagendranatha Reddy	Role of Enzymes in Biofuel Production: Recent Developments and Challenges	Bio-Clean Energy Technologies: Volume 1. Clean Energy Production Technologies.	Springer	9789811680892	2022	2021-22	https://doi.org/10.1007/978-981-16-8090-8_4
3	C. Nagendranatha Reddy, Y. Vineetha, A. Priyanka, A. Shalini, Bishwambhar Mishra, Y. Rajasri, V. Swapna	Techno-economic and environmental impact analysis of biofuels produced from microalgal biomass	Biofuels and Bioenergy	Elsevier	9780323900409	2022	2021-22	https://doi.org/10.1016/B978-0-323-90040-9.00006-0
4	C. Nagendranatha Reddy, B Mishra, SK Mandal, DC Agarwal, Chandana K.	An Insight into Pullulan and Its Potential Applications	Polysaccharides of Microbial Origin	Springer	9783030357344	2022	2021-22	https://doi.org/10.1007/978-3-030-42215-8_15

In the academic year 2021-22, the faculty of Biotechnology Department has published 08 research/review articles and 04 book chapter in peer reviewed International journals/publisher in the fields of Environmental Biotechnology, Food Biotechnology, Bioinformatics, Renewable energy, Microbiology, fermentation technology, Nanobiotechnology, Cancerbiology, Enzyme technology, etc. The faculty have collaborated with various National and International institutes for the research related works

Journals Publication Details – Academic Year 2020-21

S. No.	Academic Year	Title of the paper	Name of the Authors	Name of the Journal	Year of Publication	Scopus Indexed ? (Y/N)	Web of Science Indexed ? (Y/N)	Journal Ranking	DOI
1	2020-21	Engineering biocatalytic material for the remediation of pollutants: A comprehensive review	Bishwambhar Mishra, Sunita Varjani, Dinesh Chand Agrawal, Sanjeeb Kumar Mandal, Huu Hao Ngo, Mohammad J. Taherzadeh, Jo-Shu Chang, Siming You, Wenshan Guo	Environmental Technology & Innovation	2020	Yes	Yes	Q1	https://doi.org/10.1016/j.eti.2020.10.1063
2	2020-21	Influence of Trace Metals concentration on Methane generation using Microbial Electrochemical Systems	C. Nagendranatha Reddy, Sanath Kondaveeti, Booki Min	Process Biochemistry	2021	Yes	Yes	Q2	https://doi.org/10.1016/j.procbio.2020.12.021
3	2020-21	Simultaneous Production of Astaxanthin and Lipids from Chlorella Sorokiniana in the presence of Reactive Oxygen Species: A Biorefinery Approach.	Rajasri Y, Hariprasad R, John Reddy P, C. Nagendranatha Reddy, Chandrasekhar K	Biomass Conversion and Biorefinery	2021	Yes	Yes	Q2	https://doi.org/10.1007/s13399-021-01276-5
4	2020-21	Simultaneous production of flavonoids and lipids from the Chlorella Vulgaris and Chlorella Pyrenoidosa	Y. Rajasri, R. Hariprasad, M. Snehasri, C. Nagendranatha Reddy, V. Ashok Kumar, K. Chandrasekhar	Biomass Conversion and Biorefinery	2020	Yes	Yes	Q2	https://doi.org/10.1007/s13399-020-01044-x
5	2020-21	Effect of long-term storage on the fatty-acid profile of biodiesel and its impact on key ultrasonic properties of biodiesels and blends	C Obula Reddy, YS Reddy, M Subhadra, K Rajagopal	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2020	Yes	Yes	Q2	https://doi.org/10.1080/15567036.2020.1817193

6	2020-21	Insights into Interdisciplinary Approaches for Bioremediation of Organic Pollutants: Innovations, Challenges and Perspectives	Bishwambhar Mishra, Sunita Varjani, Ipshita Pradhan, Nakkeeran Ekambaram, Jose A. Teixeira, Huu Hao Ngo, Wenshan Guo	Proc. Natl. Acad. Sci., India, Sect.B Biol. Sci	2020	Yes	Yes	Q2	https://doi.org/10.1007/s40011-020-01187-x
7	2020-21	Micellar effects on the kinetics and mechanism of ceric ammonium nitrate oxidation of bicyclic monoterpenes under acid free conditions	Rajitha Nampally , Shylaja Somannagari, Chinna Rajanna Kamatala, *, Yadagiri Bhongiri , Umesh Kumar Utkoor	Chemical Data Collections	2021	Yes	Yes	Q3	https://doi.org/10.1016/j.cdc.2020.100645
8	2020-21	Geochemical studies on the ground water of kistapur village, Medchal district, Telangana state, India	Venkateshwarlu, M., K Rajagopal and Y.S. Reddy	Indian Journal of Environmental Protection	2020	Yes	No	Q4	--

Books/Book Chapters Publication Details – Academic Year 2020-21

Sl. No.	Name of the Authors	Title of the chapter	Title of the book	Name of the publisher	ISBN/ISSN Number	Year of publication	Academic Year	DOI
1	B Mishra, Sunita V, M Parida, Gayathri PI, M Awasthi, SK Awasthi, Z Zhang	Film Based Packaging for Food Safety and Preservation: Issues and Perspectives	Environmental Microbiology and Biotechnology	Springer Nature	9789811574924	2021	2020-21	https://doi.org/10.1007/978-981-15-7493-1_15
2	Sunita V, B Mishra, R Yadavalli, XT Bui, MJ Taherzadeh, DC Agrawal, S You, JS Chang	Petroleum waste biorefinery: A way towards circular economy	Waste Biorefinery-Value Addition Through Resource Utilization	Elsevier	9780128218792	2021	2020-21	https://doi.org/10.1016/B978-0-12-821879-2.00013-2
3	C. Nagendranatha Reddy, Y Vineetha, R Yadavalli, B Mishra	Recent advancements and challenges in nanomaterial applications in biofuel production	Nanomaterials-Application in Biofuels and Bioenergy Production Systems	Elsevier	9780128224014	2021	2020-21	https://doi.org/10.1016/B978-0-12-822401-4.00014-3
4	C. Nagendranatha Reddy, S Mehariya, S. Kavitha, RY Kannah, K Jayaprakash, R Yadavalli, JR Banu, PK Obulisamy	Electro-Fermentation of High value organic acids	Biorefineries-A step towards renewable and clean energy	Springer	9789811595929	2021	2020-21	https://doi.org/10.1007/978-981-15-9593-6_16

In the academic year 2020-21, the faculty of Biotechnology Department has published 08 research/review articles and 04 book chapter in peer reviewed International journals/publisher in the fields of Environmental Biotechnology, Renewable energy, Value added products from microalgae, Nanobiotechnology, Food Biotechnology, etc. The faculty have collaborated with various National and International institutes for the research related works

Journals Publication Details – Academic Year 2019-20

S. No.	Academic Year	Title of the paper	Name of the Authors	Name of the Journal	Year of Publication	Scopus Indexed ? (Y/N)	Web of Science Indexed ? (Y/N)	Journal Ranking	DOI
1	2019-20	Potential applications of algae in the cathode of microbial fuel cells for enhanced electricity generation with simultaneous nutrient removal and algae biorefinery: Current status and future perspectives	C. Nagendranatha Reddy, H.T.H. Nguyen, M.T. Noori, B. Min	Bioresource Technology	2019	Yes	Yes	Q1	https://doi.org/10.1016/j.biortech.2019.122010
2	2019-20	Mycobacterium tuberculosis DosR regulon gene Rv2004c contributes to streptomycin resistance and intracellular survival	Doddam SN, Peddireddy V, Yerra P, Arun PP, Qaria MA, Baddam R, Sarker N, Ahmed N	International Journal of Medical Microbiology	2019	Yes	Yes	Q1	https://doi.org/10.1016/j.ijmm.2019.151353
3	2019-20	Computational analysis of the hypothetical protein P9303_05031 from marine Cyanobacterium Prochlorococcus marinus MIT 9303	PV Parvati Sai Arun, Vineetha Yarlagadda, Govindugari Vijaya Laxmi, Sumithra Salla	Journal of integrative bioinformatics	2020	Yes	Yes	Q1	https://doi.org/10.1515/jib-2018-0087
4	2019-20	Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges	Bishwambhar Mishra, Sunita Varjani, Gopalakrishnan Kumar, Mukesh Kumar Awasthi, Sanjeev	Energy & Environment	2020	Yes	Yes	Q2	https://doi.org/10.1177%2F0958305X19896781

			Kumar Awasthi, Raveendran Sindhu, Parameswaran Binod, Eldon R Rene and Zengqiang Zhang						
5	2019-20	“Long – term storage effect on molecular interactions of biodiesels and blends”.,	Y. sreenivasa Reddy, Chittepu Obula Reddy, Subhadra, Rajagopal Kurapati, (2020	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2020	Yes	Yes	Q2	https://doi.org/10.1080/15567036.2020.1776798
6	2019-20	Evaluation of Random mutations in Streptomyces peuciticus and their impact on the of Daunorubicin	Obula Reddy Chittepu, Nuthan Vikas Bathula, Krishna Prasad Kata, Nikhila Gopalun	Journal of Biotech Research	2019	Yes	No	Q4	--
7	2019-20	Effect of Bacillus subtilis on concrete with steel fibers and fly ash"	Vijaya Laxmi Govindugari, Srinivas Reddy P. Madhavi Latha D and Sandeep Reddy A .	International Journal of Engineering Trends and Technology	2019	Yes	No	Q4	--
8	2019-20	Distortion of ultrasonic waves in long-term stored biodiesels and blends	Kurapati Rajagopal, Y.S.Reddy and Chittepu Obula Reddy	European Journal of Molecular and Clinical medicine	2020	Yes	No	--	--
9	2019-20	Food and Nutrition as natural immune-boosters: An Elaborative Review	Areeba Fatima, Harshitha Chennupati, Priyanka Aduri*	international journal of innovative science, Engineering and technology	2020	No	No	--	--

10	2019-20	In-silico docking studies of phytometabolites from traditional plant rujamari (rosmarinus officinalis) against human topoisomerases i & ii.	M.V.N.L. CHAITANYA , P. NARENDRA KUMAR, C. OBULA REDDY , K. MADHURI , K. SHANTHI , S JUBIE	International Journal of Pharmaceutical Research	2019	Yes	No	--	--
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Books/Book Chapters Publication Details – Academic Year 2019-20

Sl. No.	Name of the Authors	Title of the chapter	Title of the book	Name of the publisher	ISBN/ISSN Number	Year of publication	Academic Year	DOI
1	Chittepu Obula Reddy	Phytochemistry of Calotropis gigantea	Phytochemistry of Calotropis gigantea	Lap Lambert Academic publishing	9786200295224	2019	2019-20	

In the academic year 2019-20, the faculty of Biotechnology Department has published 10 research/review articles and 01 book chapter in peer reviewed International journals/publisher in the fields of Environmental Biotechnology, Medical Biotechnology, Bioinformatics, Computational biology, Renewable energy, Food Biotechnology, Material sciences, Plant Biotechnology, etc.

Journals Publication Details – Academic Year 2018-19

S. No.	Academic Year	Title of the paper	Name of the Authors	Name of the Journal	Year of Publication	Scopus Indexed? (Y/N)	Web of Science Indexed? (Y/N)	Journal Ranking	DOI
1	2018-19	“Polyethylene glycol Supported Metal Nitrates as Well-Organized Reagents for Hunsdiecker Conversion of α,β -Unsaturated Acids to β -Nitrostyrenes under Solvent and Acid-Free Conditions”,	K Ramesh, S Shylaja, S Ramgopal, A Sambasiva Rao and KC Rajanna	Asian Journal of Chemistry	2019	No	No	Q4	
2	2018-19	Implementation of bioremediation concept in the treatment of textile effluent.	Sumithra.S	International journal of advanced research	2019	No	Yes	--	http://dx.doi.org/10.14233/ajchem.2019.21975
3	2018-19	Aqueous stem extracts have more antibacterial and antifungal efficacy than its other parts: A Calatropis gigantea as a case study	Chittepu Obula Reddy , PV Parvati Sai Arun, Akhila Konda	Journal of Biotech Research	2019	Yes	No	Q4	--
4	2018-19	Amberlite IR-120 catalyzed synthesis of 6-aryl-5H-quinazolino [4,3-b]quinazolin8(6H)-one derivatives as anticancer agents.	Aruna, V., Sudhakar, H., Gangadhar T. and Naveen, M.	Indian Journal of Advances in Chemical Science	2018	No	Yes	--	--
5	2018-19	Catalyst Free Synthesis of N-(1,3-Dioxisoindolin-4-Yl) Acetamide Derivatives using Water and their Biological Evaluation.	Kumar, R.R., Kumar S.R., Sekhar, B.R., Raju, VVNKVP, Murthy, C., N Srinivasu, N., Aruna, V.,	Der Pharma Chemica	2018	Yes	No	--	--

			Chaitanya, M. and Naveen M.						
6	2018-19	Organogenesis of <i>Abelmoschus moschatus</i> Medik. Using aseptic seedling explants.	Aruna, V. and Pullaiah, T.	European Journal of Medicinal Plants	2018	No	Yes	--	--

In the academic year 2018-19, the faculty of Biotechnology Department has published 06 research articles in peer reviewed International journals in the fields of Chemical sciences, Environmental Biotechnology, Plant Biotechnology, Medical Biotechnology, Cancer biology, etc.

Journals Publication Details – Academic Year 2017-18

S. No.	Academic Year	Title of the paper	Name of the Authors	Name of the Journal	Year of Publication	Scopus Indexed? (Y/N)	Web of Science Indexed? (Y/N)	Journal Ranking	DOI
1	2017-18	Synthesis of Silver Nanoparticles using Plant extracts and their antimicrobial activity against Klebsiella Pneumoniae	Samiksha, Ayushi Sharma, C. Obula Reddy	International Journal of Emerging Technology and Advanced Engineering	2018	Yes	No	--	--
2	2017-18	Ultrasonic absorption of biodiesels and blends	K Rajagopal and Adeel Ahmad	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2018	Yes	Yes	Q2	https://doi.org/10.1080/15567036.2017.1405115
3	2017-18	Determination of blend level of biodiesel in petroleum diesel by 1H NMR spectroscopy	K Rajagopal and Adeel Ahmad	Journal of chemical, biological and physical sciences	2017	No	Yes	--	--

In the academic year 2017-18, the faculty of Biotechnology Department has published 03 research articles in peer reviewed International journals in the fields of Nanobiotechnology, Microbiology, Medical Biotechnology, Renewable Energy, etc.