

**Dr. Thoudam Bhaigyabati**

**Assistant Professor**

**Department of Botany, Pravabati College, Mayang Imphal, Imphal West, Manipur**

**BOOK CHAPTER PUBLICATION (Co-author): 1 Nos.**

Advances in Carbon Capture and Utilization, Energy, Environment, and Sustainability, Book series, Springer Journals, 27th July, 2021, pp 195- 234. ISBN: 978-981-16-0638-0 publisher Springer Singapore <https://doi.org/10.1007/978-981-16-0638-0>.

**MONOGRAPH: 1 Nos.**

Adsorption and degradation of heavy metals from textile effluent, LAP LAMBERT Academic Publishing, Saarbrucken, Germany (2011) ISBN: 978-3-8443-8503-8.

**SCIENTIFIC PUBLICATION(S) IN JOURNAL : 16 Nos.**

Year of publication	Sl.No.	Details of Research papers
2020	1	<b>Bhaigyabati, T.</b> , Sanasam, S., Jessia, G., Bag ,G.C., Singh, L.R. and Devi, P.G. (2020). Phytochemical profiling, antioxidant activity, antimicrobial activity and GC-MS analysis of <i>Ipomoea Aquatica</i> Forsk collected from Ema Market, Manipur, Journal of Pharmacognosy and Phytochemistry, 9(1): 2335-2342. UGC approved journal. (e-ISSN: 2278-4136, p-ISSN: 2349-8234, Impact Factor: RJIF 5.52).
	2	Sanasam ,S., <b>Bhaigyabati, T.</b> , Jessia ,G, Bag ,G.C, Singh, L.R. and Devi, P.G.( 2020). Phytochemical profiling, antimicrobial activity and Gas Chromatography Mass Spectrometry analysis of <i>Allium odorum</i> L. collected from Ema market, Manipur, International Journal of Pharmacognosy and Phytochemical Research, 12(3): 153-161. UGC approved journal. (ISSN:0975-4873, SJR H-INDEX 19).
	3	Chanu , A.K., Thokchom, R., <b>Bhaigyabati, T.</b> Devi, N.S. and Meitei, T.R.( 2020). Effect of gamma irradiation on the chlorophyll content of tree tomato ( <i>Solanum betaceum</i> Cav.) in M1 generation, The Pharma Innovation Journal, 9(11): 33-35. UGC approved journal. (e-ISSN Number: 2277-7695, p-ISSN Number: 2349-8242, NAAS rating: 5.23, Impact Factor: RJIF 5.98).
	4	Meitei, T.R., Thokchom, R., <b>Bhaigyabati, T.</b> , and Chanu, A.K. (2020). Response of radioactive cobalt ( <sup>60</sup> Co) teletherapy on M1 plants of <i>Capsicum chinense</i> Jacq., The Pharma Innovation Journal, 9(11): 87-91. UGC approved journal. (e-ISSN Number: 2277-7695, p-ISSN Number: 2349-8242, NAAS rating: 5.23, Impact Factor: RJIF 5.98, (DOI: <a href="https://doi.org/10.22271/tpi.2020.v9.i11b.5320">https://doi.org/10.22271/tpi.2020.v9.i11b.5320</a> ).

2019	5	Jessia, G., <b>Bhaigvabati, T.</b> , Sanasam ,S., Bag, G..C,C Singh LR, Devi PG (2019). Chlorophyll content of some selected Edible plants sourced from Ima market, Manipur, India, International Journal of Pharmacy and Biological Sciences, 9 (2): 1251-1259. UGC approved journal. (e-ISSN:2230-7605, p-ISSN: 2321-3272, Impact factor: 0.8888 DOI: <a href="https://doi.org/10.21276/ijpbs.2019.9.2.151">https://doi.org/10.21276/ijpbs.2019.9.2.151</a> ).
2017	6	<b>Bhaigvabati, T.</b> , Devi, G.P., Devi, N.R. and Bag, G.C., (2017). Antioxidant activity, total phenolic and total flavonoid content of <i>Oenanthe javanica</i> Blume (DC) collected from Imphal West District, International Research Journal of Pharmacy, 8(6): 63-68. [Scopus CiteScore : 0.27 (2017), ISSN (Online): 2230-8407, DOI: 10.7897/2230-8407.08698].
2016	7	Bag, G.C., Devi, G.P and <b>Bhaigvabati, T.</b> ,(2016). Phytochemical screening and antioxidant activity of <i>Meyna laxiflora</i> species found in Imphal West District of Manipur, International Journal of Pharmaceutical Sciences Review and Research, 36(1): 137-143. (Elsevier-Scopus SCImago Impact factor 2016= 0.65, ISSN: 0976-044X).
2015	8	G.C. Bag, Devi, G.P. and <b>Bhaigvabati, T.</b> ,(2015). Assessment of total flavonoid content and antioxidant activity of methanolic rhizome extract of three Hedychium species of Manipur valley, International Journal of Pharmaceutical Sciences Review and Research, 30(1): 154-159. Elsevier-Scopus SCImago Impact factor 2016= 0.65, ISSN: 0976-044X).
2014	9	<b>Bhaigvabati, T.</b> , Devi , G.P and Bag, G.C.,(2014). Total flavonoid content and antioxidant activity of aqueous rhizome extract of three Hedychium species of Manipur valley, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 5(5): 970-976. [H-INDEX=31, Impact factor 2020 = 0.35, SJR (2019)= 0.121, in Scopus as of 2016, ISSN:0975-8585, <a href="https://doi.org/10.33887/rjpbcs">https://doi.org/10.33887/rjpbcs</a> ].
2013	10	<b>Bhaigvabati, T.</b> , and Usha, K., (2013). Preliminary phytochemical screening and antioxidant activity of various extracts of <i>Sargassum Wightii</i> Greville, International Journal of Universal Pharmacy and Bio Sciences, 2(6): 60-69. [SJIF (2020): 6.409, Global Impact Factor (2015)= 0.765, ISSN: 2319-8142/ 2347-4785 (E)].
	11	Kirithika. T., <b>Bhaigvabati, T.</b> , Gomathi, R. and Usha, K.,(2013). Preliminary phytochemical screening and free radical scavenging activity on aerial plant of <i>Nelumbo Nucifera</i> Flowers, American Journal of Pharmtech Research, 3(2). [H-INDEX (2016)=17, Global Impact Factor (2015)= 1.123, ISSN: 2249-3387].
	12	Kirithika, T., <b>Bhaigvabati, T.</b> , Gomathi, R. and Usha, K.,(2013). Preliminary phytochemical screening and antioxidant property of various extracts of <i>Albizia saman</i> leaves, International Journal of

		Pharmaceutical Research and Bio-Science, 2(1):325-323. [ SJR (2019)= 0.123, ISSN: 2277-8713].
2012	13	Smrithi, A., <b>Bhaigvyabati, T.</b> and Usha, K., (2012). Bioremediation potential of <i>Brassica juncea</i> against textile disposal, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 3(2): 393-400. [H-INDEX=31, Impact factor 2020 = 0.35, SJR (2019)= 0.121, in Scopus as of 2016, ISSN:0975-8585, <a href="https://doi.org/10.33887/rjpbcs">https://doi.org/10.33887/rjpbcs</a> ].
	14	<b>Bhaigvyabati, T.</b> , Ramya, J. and Usha, K., (2012). Effect of methanolic extract of sweet corn silk on experimentally induced hyperthyroidism in Swiss albino rats, International Research Journal of Pharmacy, 3(3): 241-245. [Scopus CiteScore : 0.27 (2017), ISSN (Online): 2230-8407, DOI: 10.7897/2230-8407.08698].
2011	15	<b>Bhaigvyabati, T.</b> , Kirithika, T., Ramya, J. and Usha, K., (2011). Phytochemical constituents and antioxidant activity of various extracts of corn silk ( <i>Zea mays</i> . L), Research Journal of Pharmaceutical, Biological and Chemical Sciences, 2 (4) : 986- 993. [H-INDEX=31, Impact factor 2020 = 0.35, SJR (2019)= 0.121, in Scopus as of 2016, ISSN:0975-8585, <a href="https://doi.org/10.33887/rjpbcs">https://doi.org/10.33887/rjpbcs</a> ].
	16	<b>Bhaigvyabati, T.</b> , Kirithika, T., Shiny, K. and Usha, K., (2011) Phytochemical screening and antioxidant activity of various extracts of <i>Sargassum muticum</i> , International Journal of Pharmaceutical Research and Development, 3(10): 25-30. [Impact factor (2020)= 2.01, ISSN: 0974-9446].

**PAPER PUBLISHED IN PROCEEDINGS/ SOUVENIR: 12 Nos.**

Year	Sl. No.	Details of paper published
2015	1	<b>Bhaigvyabati, T.</b> , Devi, P.G. and Singh, L.R. and Bag, G.C. Preliminary phytochemical screening and antioxidant activity of aqueous, hexane and methanolic extracts of <i>Meyna laxiflora</i> , National Conference on Frontiers of Research in Chemical Sciences- 2015 (March 13-14), pp: 29, organized by Department of Chemistry, D.M. College of Science in collaboration with Department of Chemistry, Manipur University, Canchipur, Manipur.
	2	Bag, G.C., Devi, P.G. and <b>Bhaigvyabati, T.</b> , (2015). Assessment of Total Flavonoid Content and Antioxidant Activity of Methanolic Rhizome Extract of Three Hedychium Species of Manipur Valley, 1st National Bioresources and Sustainable Development Summit -2015 (February 19-20), pp: 19, organized by Institute of Bioresources and Sustainable Development, Takyelpat, Imphal, Manipur.

2014	3	<b><u>Bhaigyabati, T.</u></b> , Devi P.G. and Bag, G.C., (2014). Antioxidant activity and total flavonoid content in the aqueous rhizome extract of three <i>Hedychium</i> species of Manipur valley, UGC sponsored National Level Workshop on Toxicity of Medicinal plants, 26-27 <sup>th</sup> Sept., pp:28, organized by Department of Chemistry, Modern College, Imphal in collaboration with Department of Chemistry, Manipur University, Canchipur.
2012	4	<b><u>Bhaigyabati, T.</u></b> and Usha, K., (2012). Effect of methanolic extract of <i>Sargassum muticum</i> on hypothyroidism induced albino rats, 4 <sup>th</sup> Indo-Korean Conference on Integrative Bioscience Research- opportunities and challenges. 10-11 <sup>th</sup> Feb, pp:134, organized by Faculty of Home Science and Science, Avinashilingam Institute for Home Science.
	5	<b><u>Bhaigyabati, T.</u></b> and Usha, K., (2012). Screening of phytochemical constituents and antioxidant activities of various extracts of sweet corn silk, National level conference on Biorevolution-a promising strategy (NCBPS-2012), Feb 8 <sup>th</sup> , pp: 5, organized by Department of Biosciences, Sri Krishna Arts and Science College, Coimbatore.
	6	<b><u>Bhaigyabati, T.</u></b> , Ramya, J. and Usha, K.,(2012). Effect of methanolic extracts of corn silk on experimentally induced hyperthyroidism in albino rats, 99 <sup>th</sup> Indian Science Congress, Section of New Biology, 3-7 January, pp: 124-125, KIIT University, Bhubaneswar.
2011	7	<b><u>Bhaigyabati, T.</u></b> and Usha, K., (2011), Efficiency of rice bran in the removal of heavy metals and degradation of heavy metals using isolated microorganism from selected textile effluent, National level conference on Biorevolution-a promising strategy (NCBPS-2011), Feb 11 <sup>th</sup> , pp: 9-10, organized by Department of Biosciences, Sri Krishna Arts and Science College, Coimbatore.
	8	<b><u>Bhaigyabati, T.</u></b> and Usha, K., (2011). A clinical study on biochemical changes in hypo and hyperthyroid patients, International Conference on 'Global competitiveness in biology, chemistry and environment: for a better tomorrow' (Proteofest 2011), 3 <sup>rd</sup> Feb, pp:20, organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai.
	9	Smrithi, A., <b><u>Bhaigyabati, T.</u></b> and Usha, K., (2011). The bioremediation potential of <i>Brassica juncea</i> against textile disposal, International Conference on 'Global competitiveness in biology, chemistry and environment: for a better tomorrow' (Proteofest 2011), 3 <sup>rd</sup> Feb, pp:21-22, organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai.
2011	10	<b><u>Bhaigyabati, T.</u></b> , Usha, K. and Divya, T.S., (2011). Antioxidant effect of selected Indian pulses, International conference on 'Natural products and

2011		biomedical technology, 10-12 <sup>th</sup> January, pp:150-151, Dept. of Biochemistry and Biotechnology and Faculty of Marine Sciences, Annamalai University.
	11	Usha, K., <b><u>Bhaigvabati, T.</u></b> and Ramapriya, R., (2011). Antioxidant (non-enzymic) potential of the leaves and flowers of <i>Nyctanthes arbor-tristis</i> Linn., International conference on 'Natural products and biomedical technology, 10-12 <sup>th</sup> January, pp: 150, Dept. of Biochemistry and Biotechnology and Faculty of Marine Sciences, Annamalai University.
2009	12	Anitha, H., <b><u>Bhaigvabati, T.</u></b> and Usha, K., (2009). Antimicrobial activity of <i>Ocimum basilicum</i> , National level technical symposium on Emerging Innovation of Biotechnology (Bioblossom'09), 18 <sup>th</sup> March, pp: 52-53, Department of Biotechnology, Pavender Bharathidasan College of Engineering & Technology, Mathur, Tiruchirappalli-24.

#### INTERNATIONAL & NATIONAL WORKSHOP/CONFERENCE/SEMINAR

ATTENDED: 23 Nos.

Year	Sl.No.	Details of Workshop/Conference/Seminar
2022	1	Two (2) - Days online Workshop on "Basic Statistical Data Analysis, Essential Elements of Thesis Written and Paper Publication in Agricultural and Plant Sciences Research", 2 <sup>nd</sup> to 3 <sup>rd</sup> March, 2022, organized by e-loumee, Farming Alternatives and resilience management Schools (FARMS), Imphal.
2021	2	Faculty Development Program on "Digital Transformation & Innovation in Biological Sciences- Redefining the Role of 2K teachers", 26 <sup>th</sup> to 30 <sup>th</sup> July, 2021, organized by PG Department of Biochemistry, Holy Cross College (Autonomous), Tiruchirappalli, Tamil Nadu.
	3	Five Day Online Interactive Faculty Development Programme on " Web apps & e-Content Development for Digital Learning", 25 <sup>th</sup> to 29 <sup>th</sup> May, 2021, conducted by Institute of Advanced Studies in Education, Agartala in association with Dept. of Educational Technology, Bharathidasan University, Tamil Nadu.
	4	UGC STRIDE Sponsored Seven-Day Online Training Programme on Environment Sustainability and Research Ethics, 3 <sup>rd</sup> to 11 <sup>th</sup> February, 2021, organized by Department of Food Science and Nutrition, School of Home Science, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Tamil Nadu.
	5	2nd International Conference on Environmental, Agricultural, Chemical and Biological Sciences(ICEACBS2021) 24 <sup>th</sup> to 26 <sup>th</sup> January, 2021, organized by Voice of Indian Concern for the Environment (Voice) in association with CAFRE, University of Pisa, Italy, Murray State University, Murray, Kentucky, USA, Dept of Biotechnology, GLA

		University, Mathura, Uttar Pradesh, India, Dept of Zoology, Mercy College, Palakkad, Kerala, India, Dept of Environmental Science, DM College of Science, Dhanamanjuri University, Imphal, Manipur, India and Dept of Biochemistry, Vels University, Chennai, Tamil Nadu, India.
2018	6	One month Skill Development Training Program in Biotechnology for Students of North-East India on "Post-Harvest Technology and Processing of Fruits" , 13 <sup>th</sup> to 12 <sup>th</sup> December 2018, jointly organized by Biotech Park, Lucknow & Institutional Advanced Level Biotech Hub, Imphal College, Imphal, Sponsored by Institute of Bioresources and Sustainable Development, Imphal (Department of Biotechnology, GoI).
	7	UGC sponsored Two day National Seminar on " An Autonomous College- Problems and Prospects", 29-30 <sup>th</sup> June, 2018, organized by Imphal College, Imphal in collaboration with Directorate of University and Higher Education, Govt. of Manipur.
	8	105 <sup>th</sup> Indian Science Congress and 7 <sup>th</sup> Women's Science Congress, 16 <sup>th</sup> -20 <sup>th</sup> March, 2018.
2017	9	International Conference on" Sustainable Development and North East India in the Globalized Era" , 29-30 December, 2017, organized by Federation of Government College Teacher's Associations, Manipur (FEGOCTA) in partnership with D.M. College of Arts, Imphal, G.P. Women's College, Imphal and Institute of Bioresources and Sustainable Development (IBSD), Imphal.
	10	Capacity building in grant writing skills and effective management of Intellectual Property Rights (IPR) in Biotechnology by Universities and Research Institutions in the North East Region, 20-22 March, 2017 organized by Biotech Consortium India Limited (BCIL), New Delhi and State Level Biotech Hub, MU.
2015	11	National Conference on Frontiers of Research in Chemical Sciences-2015 (March 13-14) organized by Department of Chemistry, D.M. College of Science in collaboration with Department of Chemistry, Manipur University, Canchipur, Manipur.
	12	1st National Bioresources and Sustainable Development Summit -2015 (February 19-20) organized by Institute of Bioresources and Sustainable Development, Takyelpat, Imphal, Manipur.
2014	13	UGC sponsored National Level Workshop on Toxicity of Medicinal plants, 26-27 <sup>th</sup> Sept, 2014, conducted by Department of Chemistry, Modern College, Imphal in collaboration with Department of Chemistry, Manipur University, Canchipur.
2012	14	DST-CURIE sponsored Workshop on Immunohistochemical and Immunocytochemical Analysis, 13-18 <sup>th</sup> Feb, 2012, organized Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.

2012	15	4 <sup>th</sup> Indo-Korean Conference on Integrative Bioscience Research-opportunities and challenges. 10-11 <sup>th</sup> Feb, 2012, organized by Faculty of Home Science and Science, Avinashilingam Institute for Home Science.
2011	16	Glimpse, Research Convention “Research ethics and Post research perspectives”, 10 <sup>th</sup> -11 <sup>th</sup> Aug. 2011, conducted by Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.
	17	UGC sponsored National Workshop on “Entrepreneurial Stimulation for Youth”, 29 <sup>th</sup> -30 <sup>th</sup> March, 2011, organized by Avinashilingam Deemed University for Women, Coimbatore.
	18	Two day “ Science Academics” Lecture Workshops on prospects and future challenges in Plant biotechnology, 18 <sup>th</sup> -19 <sup>th</sup> March, 2011, conducted by Dr. G. R. Damodaran College of Science, Coimbatore.
	19	Proteofest 2011-International Conference, 3 <sup>rd</sup> Feb, 2011, organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai.
	20	International conference on ‘Natural products and biomedical technology, 10 <sup>th</sup> -12 <sup>th</sup> Jan, 2011, organized by Department of Biochemistry and Biotechnology and Faculty of Marine Sciences, Annamalai University.
2010	21	Workshop on “Path finder-Explore, Experiment, Elucidate research: A Colloquium, 22 <sup>nd</sup> - 23 <sup>rd</sup> Dec. 2010, organized by Avinashilingam Deemed University for Women, Coimbatore.
	22	DST-CURIE sponsored National Workshop on Basics in Animal Tissue Culture and Phytochemical Analysis, 22 <sup>nd</sup> - 27 <sup>th</sup> Nov, 2010 organized by Avinashilingam Deemed University for Women, Coimbatore.
2008	23	Indo-Korean joint Seminar on BioSciences in the Era of Globalization 14 <sup>th</sup> Oct, 2008, organized by Avinashilingam University for Women.