

CURRICULUM VITAE



Name: DR. SUNITA BANDOPADHYAY (MUKHOPADHYAY)

e-mail: sunitabm2012@gmail.com

Address: M.U.C. Women's College, Burdwan, W.B.

Education: Academic qualificatio:	M.Sc., M.Tech., Ph.D.
M. Sc. (Botany) [Spl. Paper – Mycology & Pl. Pathology]	University of Burdwan
M. Tech (Applied Botany)	IIT., Kharagpur
Ph.D.	University of Burdwan

Research experience: Project work on tissue culture during M.Tech (1992–1994).
From 1994 – 1999 as J.R.F. and S.R.F (U.G.C).

Post Doctorate : 2007 – 2010.
Worked as Principal Investigator in a major project entitled **"Recycling of water hyacinth through mushroom cultivation"** under **"Women Scientist scholarship scheme** for societal programme" funded by Dept. of Sc. & Tech., Govt. of India, New Delhi.

Scholarship / fellowship: National scholarship (1990 – 1992)
U.G.C. Fellowship (1992 – 1994 & 1994 – 1999)
Women Scientist Scholarship (2007 – 2010)

Teaching Experience: **Assistant Professor in Botany (UG)**
29/4/2010 – 18/3/2020 Sonamukhi College, Sonamukhi, Bankura.
19/3/2020 – onwards M.U.C. Women's College, Burdwan, W.B.

Awards : Best paper award in State Science & Technology Congress – 2009 and 2014

Publications : Research paper – 11 in peer reviewed National & International journals.

Book Chapters : Nine (09)

Conference / Symposium: 17 papers presented in National and International Conference and Symposium.

WORK-SHOP ATTENDED:

- Work-shop on "Scanning Electron Microscopy" organized by USIC, Burdwan University, 1998.
- Workshop on "Vermicomposting" Organised by B.K.C.R.T.C and Dept. of Biotechnology, Burdwan University, 2008
- Workshop on preservation method along with practical techniques in Botany, 2014.

LIFE MEMBERSHIP OF LEARNED SOCIETY:

- Mushroom Society of India, Natl. Res. Center for Mushroom, Solan, India.
- Probir Chatterjee Research Foundation, University of Calcutta.

OTHER ACTIVITIES:

- Acted as Resource Person in "Work-shop cum Training Programme on Mushroom Cultivation" (2006, 2007, 2008, 2009, 2010) Organised by B.K.C.R.T.C, Burdwan University and Department of Botany, B.U.
- Resource person in 'Workshop on Vermicomposting' organised by B.K.C.R.T.C. and Department of Biotechnology, B.U, 2009,2010.
- Given hands on training on Mushroom Cultivation in villages and supplied 'mushroom spawn inoculated bags' to the villagers for promotion of mushroom cultivation among them,2009.
- Resource person in UGC sponsored career orientation course on "Mushroom Cultivation and Production" during 2010, 2011, 2012.
- Orientation Programme (OP) (04/6/2013 -01/7/2013)
- Resource person in one-day seminar on Mushroom cultivation, Bankura Christian College, 2014.
- Refresher Course (RC)on Biological Sciences (10 -30/10/14), UGC-HRDC, B.U.
- Organizing Secretary in UGC-sponsored Natl. Seminar, 4-5th October,2016.
- Winter School on "Environmental Planning and Management" 04-24 December,2018, UGC-HRDC, B.U.
- Online Training Program on "Educational Video Creation: E-Content Development", 11-13 May, 2020.
- Three day online FDP on "Hybrid Classroom: ICT Tools for Teaching and Learning", 29-31 May, 2020
- National Level Online Faculty Development Programme (FDP) Entitled "Paradigm Shift in Teaching-Learning Pedagogy & Scope of Research Methods in Post COVID Era", 9th June to 15th June, 2020. Department of Education & IQAC, East Calcutta Girls' College, Kolkata
- Convener in International Webinar on "Nurturing Nature for Sustainable New Normal beyond Pandemic" 4th July, 2020 organized by Deptt. Of Botany, M.U.C. Women's College.
- Short Term Course (STC) in 'MOOCs and E-Content Development (Online Mode)', from 24th August to 29th August 2020, UGC-HRDC, JNU, New Delhi.
- 25th Refresher Course on "Life Sciences and Biotechnology (Online Mode)", UGC-HRDC, JNU, New Delhi.
- Online FDP on "How to Use ICT in Teaching, Learning and Administrative Practices in Higher Education Institutions". Surrendranath College, Kolkata.
- 130th Online Short-Term Course (STC) On E-Content Development. UGC-HRDC, Gujarat University.

Publications of Dr. Sunita Bandopadhyay (Mukhopadhyay)

A. Papers Published in peer-reviewed National and International Journals :

- 1) Bandopadhyay, S. (2014). Essential mineral and toxic elements in oyster mushroom (*Pleurotus florida*) cultivated on water hyacinth and rice straw. *Asian J. Agri. Biol.*, 2(3) 208-214.
- 2) Bandopadhyay, S. (2013). Effect of supplementing rice straw with water hyacinth on yield and nutritional qualities of oyster mushroom (*Pleurotus* spp.). *Micologica Applicada International*, 25(2), 15-21.
- 3) Bandopadhyay (Mukhopadhyay), Sunita and P.S. Mukherjee (2011). Recycling of spent mushroom substrate through vermicomposting. *Wesleyan J. of Research*, 4(2) special issue, 41-45.
- 4) Mukhopadhyay, Sunita and N.C. Chatterjee (2010). Bioconversion of water hyacinth hydrolysate into ethanol. *Bioresources*, 5(2), 1301-1310.
- 5) Bandopadhyay (Mukhopadhyay), Sunita and Chatterjee, N.C. (2009) Water hyacinth, a lost-cost supplement for oyster mushroom (*Pleurotus florida*) cultivation. *Mushroom Research*, 18(1): 5-9.
- 6) Mukhopadhyay, Sunita, Mukherjee, P.S., Nandi, B. and Chatterjee, N.C. (2008) Optimization of enzymatic hydrolysis of water hyacinth by *Trichoderma reesei* vis-a-vis production of fermentable sugars *ACTA ALIMENTARIA*, 37(3): 367-377.
- 7) Mukherjee, P.S. and Mukhopadhyay, Sunita, (2008) Microbiol production of ethanol from water hyacinth, *J. Mycopathol. Res.* 46(2): 136-139.
- 8) Mukherjee, P.S. and Mukhopadhyay, Sunita (2006) Study of morphological and cultural characteristics of some storage fungi. *J. Mycopathol, Res.*
- 9) Mukhopadhyay, S. and Nandi, B. (2001) Cellulase production by *Trichoderma reesei* on pretreated water hyacinth: effect of nutrients. *J. Mycopathol. Res.* 39(1): 57-60.
- 10) Mukhopadhyay, S. and Nandi, B. (1999) Optimization of cellulase production by *Trichoderma reesei* ATCC 26921 using a simplified medium on water hyacinth biomass. *J. Sc. & Ind. Res.* 58: 107-111. (I.F. 0.557 -2016_
- 11) Mukhopadhyay, S. and Nandi, B. (1997) Cellulase production by strains of *Trichoderma* on water hyacinth biomass. *J. Mycopathol. Res.* 35 (1): 21-28.

B. Papers Published in Proceedings/as book chapter

- 1) Bandopadhyay (Mukhopadhyay), Sunita (2021). Boosting immunity against viral infection with the sun-exposed mushroom as vitamin D supplement – a review. In: Proceeding of the 1st International E-Conference on “Revisiting Strategies for Sustainable Development”. (Ed. Basu, A.) Red’s shine publication Pvt. Ltd. in association with Red’Mac International Press &

- Media. Pp. 86-97. ISBN: 978-93-90937-61-5
- 2) Bandopadhyay (Mukhopadhyay), Sunita (2020). An Introduction to Mushroom Ed. A. K. Passari, S. Sanches. IntechOpen.86908. Pp.1-13. July 1st,2020. **ISBN: 978-1-78985-956-0**
<https://www.intechopen.com/books/an-introduction-to-mushroom/oyster-mushroom-cultivation-on-water-hyacinth-biomass-assessment-of-yield-performances-nutrient-and->
 - 3) Bandopadhyay (Mukhopadhyay), Sunita (2020). Macrofungal diversity in the Sal forest of Bankura district: a review. Local Biodiversity (**ISBN:978-93-84487-24-9**) ((ed.P. Mallick & P.S.Mukherjee, Pub. Shilpa Nagari)) Pp. 36-44.
 - 4) Bandopadhyay (Mukhopadhyay), Sunita and D.K.Hens (2017). Recycling of kitchen waste through vermicomposting. (Book chapter: Chapter-2, New Delhi Publishers, Pp.23-25. (**ISBN: 978-93-86453-07-5**))
 - 5) Bandopadhyay (Mukhopadhyay), Sunita (2017). Cultivation of Mushroom, a protein rich Food on Aquatic Weed. Proc. UGC sponsored Natl. Workshop on “Food Security: A Challenge to Agriculture” Pp. 189-200. (**ISBN: 978-93-5300-427-9**)
 - 6) Bandopadhyay (Mukhopadhyay), Sunita (2015). Spent mushroom substrate of Pleurotus spp.- an organic manure for foliage crop. Proc. UGC sponsored Natl. Workshop on “Biofertilizer and biomanure”. Pp. 58-65. (**ISBN: 978-81-88391-32-5**)
 - 7) Bandopadhyay (Mukhopadhyay), Sunita (2014). Jaibo borjer paribesbandhab byabohar Manual of UGC sponsored Natl. Workshop on “Aspects and Prospects of Biofertilizer and biomanure” Pp. 45-48. (**ISBN: 978-81-925800-7-4**)
 - 8) Bandopadhyay (Mukhopadhyay), Sunita (2011). Vermicomposting – a component of organic farming to enhance soil microbial biodiversity. Proc. Of the UGC sponsored National Seminar on ‘Biodiversity the natural wonder, Issues and concern’. pp. 143-147. (**ISBN: 978-93-80663-61-6**)
 - 9) Bandopadhyay, Sunita (2009). Mushroom Cultivation – an alternative approach towards empowerment of rural women. Proc. of State level seminar on ‘Role of Science in Rural Development’. Pp.76-79. **ISBN : 978-81-930138-0-9**

C. Papers Presented in National/International Conference, Symposium :

- 1) Bandopadhyay (Mukhopadhyay), Sunita (2020). “Boosting immunity against viral infection with sun-dried mushroom, a source of vitamin D” paper presented in the “International e-Conference on “Revisiting strategies for sustainable development”, E-ConSus 2020 By Asansole B.B. College. 13-14 June, 2020.
- 2) Bandopadhyay (Mukhopadhyay), Sunita (2019). ”Biodiversity Values:Poetic Approaches.Paper presented in the International Seminar on “ Envirenment & Literature: Depicting the Co-existance of Civilization and Sustainabiity. Galsi Mahavidyalaya & Intl.

association for the study of Australia. 06/12/2019.

- 3) Bandopadhyay (Mukhopadhyay), Sunita (2019). "Natural UV irradiated wild mushroom-the source of vitamin D" Paper presented in the International Research Conference on "Recent Trends in Life Sciences" organized by SKBU and Intl. Academy of Science and Research. 29th Nov.,2019.
- 4) Bandopadhyay (Mukhopadhyay), Sunita (2015). Vermicompost from spent mushroom substrate with aquatic weed- an organic manure for leafy vegetable. Natl. Seminar on "Contemporary Progress in Plant Sciences". March, 2015.
- 5) Bandopadhyay (Mukhopadhyay), Sunita (2014). Eco-friendly utilization of aquatic nuisance – water hyacinth. 21st W.B. State Sc. and Tech. Congress (Best poster award).
- 6) "Recycling of spent mushroom substrate through vermicomposting." (2011). UGC sponsored Nat. Seminar on "Exploitation of Biofertilizers and Biopesticides for Sustainable Development of Mordern Agriculture". Bankura Christian College.
- 7) Bandopadhyay, Sunita, De, P.S., and D. Hens (2011) 'Oyster mushroom – a herbal medicine'. National Seminar on 'Recent Trend in Herbal Research'.
- 8) Bandopadhyay (Mukhopadhyay), Sunita (2009) Low cost cultivation of oyster mushroom (Paper presented in XVIth West Bengal State Science and Technology Congress) [Best paper award].
- 9) Bandopadhyay Sunita (2008) Water hyacinth - an eco-friendly supplement for oyster mushroom cultivation. (National Seminar on Medicinal Plants : Aspects and Prospects).
- 10) Mukohpadhyay Sunita (2007) Single-batch bioconversion of Water Hyacinth (National Seminar on Environment & Sustainable Development - The Indian Context.) B.B. College, Asansol, West Bengal.
- 11) Mukherjee, P.S. and Mukhopadhyay, Sunita (2006) Seed deterioration by insect-fungus interaction, 45 (Abstr. of paper presented in Intl. Symp. in Ind. Mycological Soc.).
- 12) Mukhopadhyay, Sunita (2005) Bioconversion of water hyacinth into fuel, food and feed 99-100 (Abstr of paper, presented in Natl. Conf. on Cur. Res. in PI. & Microbiol. Sc.)
- 13) Mukherjee, PS and Mukhopadhyay, Sunita (2005) Seed protection in natural storage A-1 (Abstr of paper, presented in XIIth W.B. Sc. & Tech. Congress).
- 14) Mukherjee, P.S., Mukhopadhyay, Sunita and Nandi, B (2003) Changes in the physico-chemical properties of the oil from deteriorated seeds by storage fungi, 53 (Abstr. of paper, presented in Vth Natl. Symp on Cur Tr. In Res. on Microorganisms)
- 15) Mukherjee, P.S., Mukhopadhyay, Sunita and Nandi, B. (2002) Spoilage of Seeds in storage by Ag. Sc.-46 (paper, presented in IXth West Bengal State Science and Technology Congress).
- 16) Mukhopadhyay, sunita (2000) Cellulase prodction and protein enrichment by *Trichoderma reesei* on water hyacinth, 52-53. (Abstr. of paper presented in Natl. Conf. on Plants, Microbes & Environment)

- 17) Mukhopadhyay, S. and Nandi, B. (1997) Enzymatically saccharified water hyacinth cellulose – a source of ethanol production. Proc. Rec. Tr. Res. Microbiol. Pl. Physiol. Ind. 28-32.

D. Participated in National/International Webinar, FDP, Training (Online)

- 1) National webinar on **Plant Science: Some Contemporary Issues and Challenges**" organised by the Department of Botany, The University of Burdwan on 26th of June 2021
- 2) Natl. Webinar on "Integration of Ecosystem and Biodiversity values ..." SKBU, purulia. 22nd May, 2021
- 3) Multi-Disciplinary Annual Seminar Series, S.N.College, Kollam, Kerala. 6-19th May, 2021
- 4) Guest Lecture on Global Ethnobotany... by M. Fadiman, Florida. 20th May, 2021.
- 5) National webinar on "Issues related to Promotion & protection of Intellectual Property Rights", 11th Nov., 2020.
- 6) International Webinar on "Applied Aspects of Plant Science", 8-9 September, 2020.
- 7) Natl. Webinar on "Human Virus Interaction..." , Sonamukhi College, 26th August, 20220
- 8) International Conference on "Engineering Biotic Interactions in the Light of Social Applicability", 7-10 August, 2020.
- 9) "International Webinar on the Eve of World Nature Conservation Day", 28th July, 2020.
- 10) National Level Webinar on "Yoga in Pandemic Situation: Theory & Practice. 6th July, 2020.
- 11) International Webinar on "Nurturing Nature for Sustainable New Normal beyond Pandemic". 4th July, 2020.
- 12) Online Special Lecture Series on "Current Trends in Basic Sciences and Career Opportunities", 25-26 June, 2020.
- 13) International Online Faculty Enrichment Programme on "Tips & Tricks for Publishing in International Scientific Journals", 20th June, 2020.
- 14) National Webinar on "Struggle for coexistence: Affect of Anthropocene non-human life forms", 20 June, 2020.
- 15) International Webinar on "Trajectory of COVID-19 Pandemic: Awareness, Treatment and Genomic Insight for Future Development", 14-15 June, 2020.
- 16) National Level Online Faculty Development Programme (FDP) Entitled "Paradigm Shift in Teaching-Learning Pedagogy & Scope of Research Methods in Post COVID Era", 9th June to 15th June, 2020. Department of Education & IQAC, East Calcutta Girls' College, Kolkata
- 17) Three day online FDP on "Hybrid Classroom: ICT Tools for Teaching and Learning", 29-31 May, 2020
- 18) Online Training Program on "Educational Video Creation: E-Content Development", 11-13 May, 2020.
- 19) National Level Online Faculty Development Programme (FDP) Entitled "Paradigm Shift in Teaching-Learning Pedagogy & Scope of Research Methods in Post COVID Era", 9th June to 15th June, 2020. Department of Education & IQAC, East Calcutta Girls' College, Kolkata.