

Curriculum Vitae

Dr. Prasanjit Mukherjee, D.Sc. PGDEE, FBS, FES, FEHST, FAPT, FMSET

Head Department of Botany,

K.O.College, Gumla

Sectional Recorder

Environmental Sciences, Indian Science Congress Association

For 2010-11& 2011-12

Council Member

Indian Botanical Society (2017-2020)& (2023-2026)

Member Jharkhand Biodiversity Board

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Basant Bhawan

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Twenty four years of professional teaching experience in various levels with active participation in Environmental Education and conservation. Researches related to it. 5 Years experience with NGOs as expertise in imparting training on SWM and environmental issues, consultancy on SWM, IEC plan.

EXPERTISE

Strong, communication and instruction skills with special expertise in organizing events, team management and imparting training on environment education. Excellent leadership and organizational capabilities with emphatic oratory and public speaking skills.

QUALIFICATION

Examination Passed	Board or University	Year of passing
D.Sc.	Ranchi University	2019***
Ph.D	Ranchi University	2001**
PG diploma in Ecology & Environment	IIEE., New Delhi	1995
Master of Science (Botany)	Ranchi University	1994
B.Sc. Botany Hons	Ranchi University	1991
MBA(HR & Finance)	SVSU, Meerut	2022

**Ph.D.Topic –The Floristic and Ecological Studies of Aquatic Angiosperms of Lohardaga in the year 2001.

***D.Sc.Topic - The Floristic Studies of Aquatic and Semi aquatic Angiosperms of Major water Bodies of Jharkhand with Special Reference to their Economic importance.

Paper Published and Presented: 76 Research paper Published, 93 National and 11 International academic paper presented in various Seminar.

Participation in Workshop and Seminar: Participation in more than 200 workshop and Seminars.

Training imparted Imparted more than 150 trainings on Ethnobotany, Solid Waste Management, Sanitation, Environment Education, and Water conservation. Delivered more than 300 lectures on environmental awareness issue in 17 districts of Jharkhand.

SUMMARY OF WORK:

- Worked as Plant Taxonomist and environmentalist in an active NGO known as Environment Protection Group.

- Worked as a state coordinator in an NGO Jharkhand Vigyan Manch, Ranchi.
- Worked in Nav Bharat Jagriti Kendra in India Canada Environment facility supported community based solid waste management project as a trainer, and consultant,
- Worked as a counselor of Environmental sciences in IGNOU(St. Xavier College, Ranchi centre)
- Worked as HOD botany and Environmental Science in K.K.M. College, Pakur.(A constituent Unit of S.K.M. University, Dumka, Jharkhand) 1st March ,2008 to 2nd November , 2022.
- Worked as HOD botany in K.O. College, Gumla .(A constituent Unit of Ranchi . University, Ranchi , Jharkhand)from 3rd November 2022 till date
- President Centre for social and Environmental Research.
- Assistant co-coordinator Nalanda Open University,(KKM College, Pakur centre).
- Discharge the duty of Bursar of KKM College Pakur from 2014 – 2017.
- NSS program officer of the college (Unit -3) since 2014, Organised two special camps.
- Discharge the Duty of the Observer at B.S.K. College Barharwa appointed by SKMU Dumka.(For Degree Part –III Annual Exam 2014 ,18.5.2015 to 9-6-2015.
- Discharge the duty of Observer at Sahibganj College Sahibganj in the PG Final Year Exam of 2015.
- Discharge the duty of Coordinator NAAC of the College, under my coordinator ship the college was awarded Grade –B. .(24th July 2014 to 6th February 2020)
- Discharge the duty of Internal Quality Assurance Cell (IQAC) of the college.(24th July 2014 to 6th February 2020)

EXTRA CURRICULAR ACTIVITIES:

- Organized and Managed various scientific seminars, Training, Exhibition and evaluated the same.

- Lead students to numerous National level science exhibition, Seminars, and congress.
- Actively participated in the awareness program on pollution eradication and conservation..
- Involved in organizing events, Training, and technical workshop on Environmental conservation.

LIST OF PRESENTATION IN INDIAN SCIENCE CONGRESS

2009-3rd to 7th January, 2009. NEHU, Shilong (Poster Presentation)

2010- 3rd to 7th January, 2010, Kerala University & ISRO, Thiruanatpuram.

2011- 3rd to 7th January, 2011, SRM Chennai (Sectional Recorder)

2012- 3rd to 7th January, 2012, KIITS Bhubaneshwar (Sectional Recorder)

2013 – 3rd to 7th January, 2013, Kolkata University.

2014- 3rd to 7th February, 2014 University of Jammu.

2015-3rd to 7th January, 2015, University of Mumbai.

2016-3rd to 7th January, 2016, University of Mysore.

2017 -3rd to 7th January, 2017, Tirupati

2018-3rd to 7th March, 2018, Manipur

2019 – 3rd to 7th January, LPU, Fugwara, Jalandhar

2020– 3rd to 7th January, Agricultural University Banagluru

2023- 3rd to 7th January, R.T.M.Nagpur University, Nagpur

ACADEMIC ACHIEVEMENTS:

Councilor Indian Botanical Society (2017-2020)

Councilor Indian Botanical Society (2023-2026)

Felicitated as best teacher for promotion of science and Environment on 5th September, 2005. By Directorate DAV Public Schools, Ranchi Zone.

Elected as Sectional recorder of, Environmental Science Section in 97th National Science Congress held at Thiruanantpuram from January 3rd to January 7th 2010.(for two terms 2010-11and 2011-12)

Awarded Senior Scientist by Madahvi Shayam Educational Trust on December,2015.

Felicitation during SKM Universities Establishment day on 10thJanuary 2016,for the better work as a programme officer of NSS

Empanelled Consultant (as a member of team NBJK) on Solid Waste Management under Ministry of Urban Development , Govt. of Jharkhand for preparing DPR on SWM.

World Environmental Excellence Award 2017 at Mumbai by world achievers foundation.

Name and CV appeared in A to Z of Ethno botany (A book Published by
With ISBN)

REVIEWER IN THE JOURNALS

Journal of Indian botanical Society (Official Journal of Indian Botanical Society)

Rheedia (Official Journal of India Association of Angiospermic Taxonomy)

The Biobrio (The oficial Journal of Centre for social and Environmental Research)

Biospectra

Publication of Journal

The Biobrio (The oficial Journal of Centre for social and Environmental Research)

As Editor in Chief.

PATENTS AND PATENT PUBLISHED

1. Compost based on Eichhornia crassipes and Preparation Methods thereof
2. A system unit for prodction of conglomerates with bituminous and non bituminous binders
3. Urine pot to create fertilizer

AWARDS

Young Scientist by Madahvi Shayam Educational Trust on July, 2007.

Young Scientist award during an International Seminar at S.K.M. University on September, 2007.

Senior Scientist Award by Madahvi Shayam Educational Trust on December, 2014.

World Environmental Excellence Award 2017 on 25th June 2017 at Mumbai by World Achievers Foundation.

Indo Global Excellence Award on 22nd February, 2018 at Ranchi By Indo Global Chamber of Commerce, Industries and Agriculture(IGCCIA)

ISAR Excellence Award 2019 at International Research Conference on “ Recent Trends in Life Sciences “ on November 28, 2019 at Sido Kanho Birsa University, Purulia ,West Bengal.

Excellence in Research Award in Recognition of outstanding Research Work done in the field of Botany/ Plant Taxonomy during National E-Symposium on Challenges for Immunity Booster Foods and Herbal Remedies Against Covid-19 and its Vaccine Development 2020 on Dated 28th -29th June Organised by Kalp Laboratories ,Mathura and Plant Research and Educational Promotion Society.

International Education Award for Contribution to Student Development in Recognition in Recognition of continuing excellence in teaching. Awarded at International Excellence Award Conference -2020.Held virtually on 19th December,2020.

PROJECTS

Project coordinator Social Impact assessment of Kajladaha –Pakuria Road, a project under Pakur District, Jharkhand.(4.98 Lacs)in the year 2017.

MAJOR RESPONSIBILITIES HANDLED

Coordinator NAAC- KKM College graded “B” under my co-ordinatorship

Coordinator IQAC (September, 2014 – March, 2020)

Served as bursar at KM College,Pakur, 2014-2017

Act as University Representative of Pathargama College Godda in the academic year 2015-2016

Observer at Sahibganj College, Sahibganj in the PG Exam, 2015

Observer at B.S.K College, Barharwa in The UG Exam 2016.

NSS Program officer of the college from the year 2012- .2020.

MEMBERS/FELLOWSHIP

1. Life Member and Fellow, Journal of Biospectra, Ranchi (Madavi Shayam Educational Trust)
2. Life Member Journal of Haematology and Ecotoxicology, Dumka
3. Life Member Indian science Congress Association, Kolkata
3. Life Member and Fellow of Indian Botanical Society, University Of Rajsthan
4. Life member world Science congress Association, Kolkata
5. Life member and Fellow (Pleione), Society of Spermatophytes(North Bengal University, Silligurhi) (Fellow of Society of Spermatophytic taxonomy)
6. Life member for Society of Phytotaxonomist, Dehradun
7. President Centre for Social and Environmental Research, Ranchi(Registered under SRA -1960)
8. Life member Indian Association of Angiospermic Taxonomy, kalicut
9. International Academy of Science and Research, Kolkata
10. Executive Editor of a quarterly International Journal of Life Sciences, The Biobrio an official Organ of Centre for social and Environmental Research, Ranchi, Jharkhand.ISSN-2393-9508.
11. Life member and fellow , Society of Ethnobotanist , Lucknow
12. Annual Member National Journal of Life Sciences (NJLS).
13. State Academic Coordinator, National Children Science Congress Network ,Govt. of India.
14. University representative in the Governing body of Pathergama College, Godda.

15. Member District Environmental Appraisal Committee, Pakur
16. Member District Tourism Promotion Committee ,Pakur
17. Member District sanitation committee, Pakur
18. Member District Tribal Advisory Committee, Pakur
19. Member District Environment committee,Pakur
20. Member District Environment Committee, Dumka

LIST OF PAPERS AND SEMINARS

LIST OF PAPERS PUBLISHED

1. Kumar P, J Kumar and **Mukherjee P.** Comparison of Stomatal studies of Three Species of Passiflora, *Bulletin of Pure and Applied Sciences. Vol.22B (No. 1)2003; P.25-27*
2. **Mukherjee P.** and Paul D.K. 2006. A preliminary Study of Physicochemical Characteristics of a perennial fish Pond J. *Haematol & Ecotoxicol 1 (1) P.49-56. 2*
3. Gupta Shashi Kumar and Mukherjee P.2007.Seasonal variation in physico-chemical parameters of water of Raju Babu talab ,Lohardaga. *Biospectra, Vol.2(2), pp363-366.*
4. Gupta shashi Kumar and Mukherjee P.2008.Studies on physico-chemical parameters of Choudhary pond ,Lohardaga. *Biospectra, Vol.3(2), pp359-362.*
5. Chakraborty A, Jha R.K., and **Mukherjee P.**2010 . An Ecological Study of the BC College Pond at Asansol (West Bengal).Published in *Biospectra ,An International Biannual Journal of Life Sciences, Vol.5(1), pp61-64.*
6. **Mukherjee P.** 2009. Aquatic Biodiversity of Victoria Lake of Lohardaga (Jharkhand) India, Published in *Biospectra ,An International Biannual Journal of Life Sciences, Vol.4(2),.(Spl. Issue),pp417-420.*
7. **Mukherjee P** ,Chakraborty A. and Jha R.K. Studies on Aquatic and Semi Aquatic Angiosperm Plants known to cure several diseases in and around

- Asansol(W.B.),Published in Biospectra ,An International Biannual Journal of Life Sciences,V0l.5(1),March.2010,pp493-96.
8. **Mukherjee P.** Sinha S. and Sinha A. Quantity and composition of Waste generated In Hazaribag Municipal area (Jharkhand) : An Analytical study Published In Journal of Hematology and Ecotoxicology, A Journal of Life Sciences, in Dcember,09
 9. **Mukherjee P.** and Chakraborty A. 2009. Studies on Cyanophycean Diversity of Batasia Loop, Darjiling ,West Bengal, Published In Journal of Hematology and Ecotoxicology, A Journal of Life Sciences, in Dcember,09
 10. **Mukherjee, P.,** Das, A. and Kumar, J. 2014.Jute Retting – serious threat to aquatic bodies & phytodiversity in Berhampore Block (W.B.) *The Biobrio* .1(1): 22-38.
 11. Das, A. and **Mukherjee, P.**2013. *Aeschynomene aspera* : a plant of diverse use. *National Journal of Life Sciences*. 10 (2): 243-246.
 12. **Mukherjee, P.,** Das, A.and R.L.S. Sikarwar. 2013. Use of gemstones and their plant substitutes in Berhampore subdivision of Murshidabad district, West Bengal. *Ethnobotany*. 25: 169-171.
 13. Das, A. and **Mukherjee, P.** 2012. The conservators, of the natural resources & Traditional farming knowledge, helpful in combating climate change- Tribal communities, of Dumka district (under SanthalParaganas). *Journal of Recent Advances in Science*.Vol. II(2): 17-23.
 14. **Mukherjee P.**2011. *Alternanthera philexoroides* : altering the aquatic vegetation in the ponds of Jahrkhand, Published In Journal of Hematology and Ecotoxicology, A Journal of Life Sciences, in December. 6 (2).PP 100-105.
 15. **Mukherjee P** and Kisku S, 2011.Solid Waste : Being treated as Resource By Various Composting Option In Ranchi(Jharkhand). Published In Journal of Hematology and Ecotoxicology, A Journal of Life Sciences, in December. PP 48-52.

16. Verma SK, Pandey PK, **Mukherjee P** and Paul D. 2007. Ethno medicinal Use of Some Aquatic Plants in Jharkhand . Published In Journal of Hematology and Ecotoxicology, A Journal of Life Sciences, in December.2(1) PP 34-37.
17. Verma S K , Pandey P, **Mukherjee P** and Kumar S. 2017. Some water Loving Plants sold as pot herb (SAG) in the village Markets of Ranchi District. Published in Biospectra, An International Biannual Journal of Life Sciences, Vol. 2(1), March.2007,pp139 -141.
18. Dutta S. and **Mukherjee P. 2015**. Invasive alien plant species in some hilly region of Dumka district and their effects on biodiversity. Published in Biospectra, An International Biannual Journal of Life Sciences, Vol.5 (1&2),pp83-89.
19. **Mukherjee P**, Topno S. and Sudhansu Kumar.2007.Some less known edible fruits recommended as minor forest products of village of Khunti and surrounding forest. Published in Biospectra, An International Biannual Journal of Life Sciences,Vol.2(2).
20. **Mukherjee P** and Ghosh T.K. 2015.Aquatic and semi aquatic angiospermic flora of Lohardaga(Jharkhand)Published in Phytotaxonomy Vol.15.2015.pp134-145.
21. Kisku S and **Mukherjee P. 2016**.Scenario of Bio-Medical waste in ULBs of Santhal Pargana, Published in The Biobrio An International quality journal of Life Science.Vol.3(1&2)2016.
22. **Mukherjee P**, Pathak S and Kumar J. 2019. Studies on Morpho - Taxonomy and Anatomy and Palynology of *Ipomoea carnea* Jacq. Growing in Jharkhand, India. Annals of Plant Science 8 ;.3 (2019) pp.3505-3509.
23. **Mukherjee P. and Kumar J. 2019** Aquatic Angiosperms: Boon for Water Gardeners, International Journal of Current Research in Life Sciences. Vol. 08, No. 01, pp.3023-3026, January, 2019
24. **Mukherjee P. Kumar J and Jha H.K. 2018**. Biodiversity of Aquatic Flora in Jamtara District of Jharkhand with reference to Asteraceae family .The Biobrio.5(1&2): 304-307.

25. **Mukherjee P.** and Kumar J. 2016. Cultivation of Aquatic plants for Sustainable Development .The Biobrio. 3(3&4) : 194-200.
26. **Mukherjee P.** and Kumar J. 2017. Survey of Alien Invasive Aquatic and Semi – aquatic Plants species of Santhal Pargana, Jharkhand The Biobrio. 4(1&2): 221-224.
27. **Mukherjee P.** and Kumar J. 2019. Studies on the aquatic and semi- aquatic Angiosperms of Kanke Dam,Ranchi, Jharkhand. PHYTOTAXONOMY Vol. 18,
28. **Mukherjee P.,** Kumar J. and Jha H.K. 2018. Aquatic weeds: Nutritional supplement with high therapeutic value .The Biobrio. 5(3&4).pp331-333.
29. **Mukherjee P.** and Mishra S.N. 2018. Distribution and spread of Alien Invasive species in the state of Jharkhand.Genius ,6(II)pp39-48.
30. Dutta S and **Mukherjee P.** 2018 . Exploration and cultivation of wild Alien invasive plant species for Ornamental Purposes in Jharkhand (India). Genius ,6(II)pp 63-68.
31. Pathak S.K., Choudhary S, and **Mukherjee P.** 2019. Studies on morpho - taxonomy and anatomy of *Ipomoea quamoclit* L. growing in Ranchi, Jharkhand, India. The Biobrio..Vol.7(3&4):403-405.
32. Sutanu S. and **Mukherjee P.**2019. Ethnomedicinal uses of Pteridophytes of Chotanagpur Plateau, Jharkhand.Thebiobrio. 6 (1&2) : 396-399.
33. Khess M, Kandir K .and **Mukherjee P.** 2019. Folk Herbal Remedies Used By Tribals Of Chotanagpur Against Anaemia. Thebiobrio. 6 (1&2) : 396-399.
34. **Mukherjee P.**and Kumar J. 2020. Floristic Studies on Aquatic And Semi Aquatic Angiosperms of Major Water Bodies Of Jharkhand, J. Indian bot. Soc. Vol. 100 (3&4) 2020:119-133
35. Pathak S.K., Kumar J and **Mukherjee P.**2020,. Studies on Morphotaxonomy and Anatomical features of *Eichhornia crassipes* with regards to its spread and distribution in Jharkhand . Sodh Drishti,Vol.11.No.3.
36. Mishra D.N. and **Mukherjee P.** 2020. Studies on distribution and morphotaxonomy of *Ludwigia adscendens* L. growing in Jharkhand, India .The Biobrio 7(3 & 4), pp540-543.

37. Jha A. K. and **Mukherjee P.**2020. Plant species found in and around Sidpahari black stone mining area and its impact on plants. The Biobrio 7(3 & 4), pp 552-559.
38. **Mukherjee P.** and Kumar J. 2021.Floriistic Studies on Aquatic and Semi Aquatic Angiosperms of Major Water Bodies of Jharkhand. J. Indian. Bot. Soc. Vol. 100 (3&4) 2020.119- 133.
39. **Mukherjee P.**, Peeyush K. and Gupta S.K.2021.Physico- Chemical Analysis of water of a few ponds of Lohardaga. RUJOST, January and July,2021-2021.vol.5 & 6.pp61-66.
40. **Mukherjee P**, Kumar P. Gupta S.K., Kumari s., Kisku s, and Paul D.K. Studies on macrophytic diversity of Victoria Lake Lohardaga(Jharkhand) with special reference to its water quality. .Biospectra.Vol.16(2),September, 2021,pp.63-68.
41. Jha A.K. and **Mukherjee P.** 2021. Land degradation due to black stone mining in Pakur: Need Eco- restoration.Biospectra.Vol.16(1),March 2021,pp.63-68.
42. **Mukherjee P.** and Mithilesh Kumar .2021. Studies on Aquatic Macrophytic Diversity in Ponds of Pakur. Biospectra.Vol.16(1),March 2021,pp.73-78.
43. **Mukherjee P.**, Pathak S. and Kumar J. 2019.Studies on morpho-taxonomy, anatomy and palynology of *Ipomoea carnea* Jacq. growing in Jharkhand,India.Published in Anals of Plant Science 8.3(2019) pp3505-3509.
44. Marandi J,Bondya S.L. and **Mukherjee P** 2023. Ecological Studies of sacred grove (Jaher) of Baskanali Village of Dumka , Jharkhand . The Biobrio 7(3 & 4), pp 552-559.
45. Kumar Mithilesh ,Singha Manshi and **Mukherjee P.** 2022. An Experimental Investigation on growth rate of water lettuce (*Pistia stratiotes* L.) Biospectra.Vol.17(1),March 2022,pp.187-190.
46. Marandi J, **Mukherjee P** and Bondya. Ecological Studies of sacred grove (Jaher) of Golpur Village of Dumka district and its ethnobotanical significance . Biospectra Vol. 18(1), pp 35-38.,
47. Elkish Mohammad S,Ali Mohammad A, Al-Hamed F, Kim Yong Soo, Meena Elangham, Arun Bahadur Gurung , **Prasanjit Mukherjee**, Mohamed el-Zaaidy, Joonkgu Lee.2021. Insights into Plastome of *Fagonia indica* Burm. F. (Zygophyllaceae)Organisation, annotation and phylogeny.Saudi Journal of biological sciences.

48. Mukherjee P, Kumar P, Gupta S.K. and Rahul K,2022. Seasonal variation in Physico-Chemical parameters and suitability for various uses of Bauli pond water, Jharkhand. *Water Science*. Vol.36(1)pp125-135.
49. Singh J, Gupta S , Kumar v,Kotia A, Singh G P and Mujherjee P.2022. *Habenaria gibsonii* Var. Foetida Blatt. And Mc Cann.(Orchidaceae); new distribution recordrd from Sita Mata ild Life sanctuary, Rajsthan , India. *Biospectra*.Vol.17(1),March 2022,pp.5-8.
50. Kumar Mithilesh and **Mukherjee P.** 2023. Biodiversity of Aquatic and Semi aquatic flora in Pakur District with reference to Fabaceae family.. *The Biobrio* 10(1 & 2), pp 945-949.
51. Paul D. K. Kumari N, Kumari M, Jaisawal J, Jha A.k. **Mukherjee P,** 2022. Efficacy of aqueous extract of some common medicinal plants for Ganges water.. *Biospectra* Vol. 17(2), pp 37-78.,
52. Kumar Mithilesh, Singha M and **Mukherjee P,**2023 Economic importance of Hydrophytes a review. *Biospectra* Vol. 17(2), pp 37-78.,
53. Mukherjee P. Mishra S.N. Peyush K, Gupta S.K. and Rahul Kumar .2023. Water quality: An ecological indicator for aquatic biodiversity survival and eco restoration. *Indian Forester* .149(5):533-542.DOI10,36808/if/2023/v149i5/168052

BOOK CHAPTERS

54. Bondya, S.L., **Mukherjee, P.**, and Das, A. 2015.Traditional Knowledge: Best medicine mines, A way forward. *Recent Advances in Ethnobotany*. Ed. Sanjeev Kumar, Deep Publications, New Delhi. pp. 191-196.
55. **Mukherjee, P.** and Das, A. 2012. Floristic studies of ponds of Berhampur subdivision of Murshidabad district, Paschimbanga. *Recent studies in biodiversity and traditional knowledge in India*. pp. 181-185.ISBN: 978-81-920386.1-2.
56. **Mukherjee P.**2012.Studies on Weed Diversity of Pakur District of Jharkhand . *Recent studies in biodiversity and traditional knowledge in India*. pp. 181-185.ISBN: 978-81-920386.1-2.
57. Dutta S. and **Mukherjee P.** 2015. Exclusive medicinal uses of Alien Invasive Plant Species in Dumka ,Jharkhand. *Conservation of Medicinal Plants*

- Conventional and Modern approaches. Omega Publication N.Delhi.ISBN 978-81-388-2.
58. **Mukherjee P.** and Dutta S.2012.A Report on diseases and Pset of potato in and around in Dumka .Glimpses of Phyttopathology for sustainable development. A.B. Publication Delhi.ISBN 978-93-80444-71-0, pp329-339.
 59. Prasad B. Lochan K and **Mukherjee P.** 2011. Higher Education in Jharkhand, Higher Education in India Problems and Prospects,S.K. publishing Company, Ranchi.ISBN 978-81- 90350-8-1.
 60. Boyra S.Patralekh L.N., Dutta S. and **Mukherjee P.** 2012..Physico- chemical analysis analysis of some of the selected parameters of Sen Pokhar, Dumka(Jharkhand).Water Pollution and its recent challenges. Daya Publishing House, New Delhi. ISBN 978-81-7035-788-9. pp 92-103.
 - 61.. **Mukherjee P.** and Kumar J. 2019. Biodiversity changing pattern in Victoria lake, Lohardaga, Jharkhand. Biodiversity, Taxonomy and Conservation. ISBN 978-93-83583-24-9.pp.37-47.
 - 62.. **Mukherjee P.** and Kumar J. 2019. Economic importance of water and water Plants. Biodiversity, Taxonomy and Conservation. ISBN 978-93-83583-24-9.pp.146-149.
 - 63.. **Mukherjee P.**, Kumar J. and Jha H.K. 2019. Aquatic and Semi aquatic Plants pecies of Family Asteraceae in Ranchi Biodiversity, Taxonomy and Conservation. ISBN 978-93-83583-24-9.PP.150 -155.
 64. **Mukherjee P.**, Mishra D.N. and Kumar J.. 2019. Aquatic Flora of Sahibganj Jharkhand with special reference to River Gangaes. Biodiversity,Taxonomy and Conservation. ISBN 978-93-83583-24-9.PP.210 -214. .
 65. **Mukherjee P.** and Kumar J. 2019. Medicinal Plant Grown in KKM College, Campus, Pakur *Visa e Vis* Their *In situ* Conservation , Biodiversity,Taxonomy and Conservation. ISBN 978-93-83583-24-9.pp.156- 164.

66. **Mukherjee P.** and Kumar J. 2020. Studies on Medicinal and other uses of Aquatic and Semi aquatic Angiospermic Plants of Jharkhand .Ethnobotany, Cultivation and Utilization of Plants.Srijan Samiti Publication.Varanasi. PP 11-32.
67. Kisku S., Mishra D.N.,Kumari A and **Mukherjee P.** 2020. Ethnomedicinal and Culinary Uses of *Centella asiatica* (L.) Urban. By the Tribes of Jharkhand. Ethnobotany, Cultivation and Utilization of Plants. Srijan Samiti Publication. Varanasi. PP 205—218.
- 68 **Mukherjee P.** and Jha A. 2021. Exclusive medicinal uses of family Asteraceae of Amrapara Block of Pakur in Lesser Known Plants- Conservation, Management and Sustainable utilization. Editors Anita Tomar and Sanjay Singh .PP157-162.Walnut Publication. ISBN: 9789391522339.

C. PROCEEDINGS OF THE SEMINARS

69. **Mukherjee, P.** and Das, A. 2011.Ethnobotanical investigation of Berhampur Subdivision of Murshidabad (West Bengal)Proceedings of National Seminar on *Medicinal plants cultivation for promoting rural economy in Bihar. pp. 74-78.*
- 70 . Baitha, R., **Mukherjee, P.** and Das Mandal, A. 2011. Economics of Ginger (A se study of Samastipur) Proceedings of National Seminar on *Medicinal plants cultivation for promoting rural economy in Bihar. pp.50-55.*
71. Khesss M., Kandir K, and **Mukherjee P.** 2002.Folk herbal remedies used by tribal of Jharkhand against post partum disease (Prasuti fever and Sanpat).Proceeding of UGC sponsored national conference on Biodiversity,Taxonomy and Conservation Organised by M.S.P. mandal's Majalgaon College,Majalgaon, 27th and 28th July.
72. **Mukherjee P** and Pankaj P. 2002.Studies on the Angiospermic flora of Ponds of Ranchi(Jharkhand) Proceeding of UGC sponsored national conference on Biodiversity,Taxonomy and Conservation Organised by M.S.P. mandal's Majalgaon College,Majalgaon, 27th and 28th July.
- 73.. **Mukherjee P.** 2005. Aquatic plants of Jharkhand and their Economic Importance, Proceeding Seminar on Clean Technology for small scale industries on world environment day 5th June. Green cities: Plan for the planet. Pp 96 -103.

D. TRAINING COURSES

Orientation program at Training orientation & Research Centre (Sponsored by Dept. of Youth & Sports Affairs, Govt of India) Ramkrishna Mission Ashrama, Narendrapur, Kolkata from 28th July 2013 to 3rd August 2013.

Seminar Cum Training Course on Identification, Documentation, Conservation of Medicinal and threatened Plant species and related Ethnobiological aspects. Organised by Institute of Ethnobiology and School of Studies in Botany, Jiwaji University Gwalior.(MP). From December 20th to 24th, 2011.

Capacity Building training Course In Plant Taxonomy. Organised By TNB College Bhagalpuru Organised by BSI Kolkata, ENVIS Centre on Floral Diversity Howrah. MOEF, GOI. 20th to 27th .

Training program on Basics of Plant Nomenclature Organized by ENVIS Centre on sFloral Diversity Howrah in collaboration with Central National Herbarium, Botanical Survey of India, Howrah **on 14th & 15th January, 2017 .**

Refresher Course on Life Science at ASC Ranchi. From 6th September 2013 to 26th September 2013.

Refresher course in Information Technology at UGC ASC Ranchi University, Ranchi from 1.8.2011 to 21-08-2011

Orientation Program: 57th Orientation Programme at UGC ASC Ranchi University, Ranchi from 03-03-2010 to 30-03-2010.

East Zone Inter University Two day Workshop on Considering NSS As Elective Subject & Skill Development with Vocational Training. 23rd & 24th May, 2014. Organised by RU, Ranchi Under the aegis of Association of Indian Universities, New Delhi .Sponsored by Ministry of Youth affairs.

Two days training program of Environmental Awareness on January 6th and 7th 2018 at Rajiv Gandhi Institute of National Youth Development (RGINYD), Sriperambur, Chennai

One day state Level Workshop on Green Science and Sustainable Development (GSSD-2018) 24th February, 2018. Organised by Department of Zoology ,Ranchi Women's College, Ranchi.

E. LIST OF PAPERS PRESENTED IN THE SEMINARS

Ethnomedicinal Use Of Some Aquatic Plants In Jharkhand,*National Symposium on advances in production Technology and use of Medicinal and Aromatic Plants* ,Dec.14-15,2001,Organized by :Birsa Agriculture University

Aquatic Plants: A Boon for Water Gardeners,*XIII Annual Conference Of Indian Association For Angiospermic Taxonomy And International Symposium on Plant Taxonomy: Advances And Relevance, November 14-15,2003*,Organized by: Plant Systematic research Centre (PSRC) University Deptt of Botany Bhagalpur University ,Bhagalpur ,812007,India

New Plant Adopted in Tribal Region as Medicinal SAG,*National Seminar on Sustainable Horticultural production In Tribal Regions*,July 25 -26,1999,Organized by :Horticultural Society of Chotanagpur,Ranchi and Central Horticultural Experiment Station (Indian association of Horticultural Research)

Some Aquatic Plants Used By the People of Lohardaga To Cure Various Ailments,*National Symposium on Medicinal Plants Diversity in Chotanagpur Plateau and Human Welfare* ,May.21-23,1999,Organized by :Department of Botany ,Marwari College Ranchi ,(A Constitute Unit of Ranchi University,Ranchi)

Some less Known Edibles fruits are Recommended for M.F.P. in villages of Khunti,*Three Days Seminar Cum Workshop On Augmentation Of Collection And Processing Of Minor Forest Produce At Ranchi* ,August 23,24 and 25,1999.Organized by :Gramya a Voluntary Organization ,Sponsored of Rural Development, Government of India

Blessing for Bee Keepers The Forest Plants Of Fabaceae,*Three Days Seminar Cum Workshop On Augmentation Of Collection And Processing Of Minor Forest Produce At Ranchi* ,August 23,24 and 25,1999.Organized by :Gramya a Voluntary Organization ,Sponsored of Rural Development, Government of India

Status of Economically important Aquatic Plants Of Lohardaga, XXIX Annual conference and Symposium on Emerging Trends in Plant Biology Environment Protection and Bio-Technology, October 9th -11th, 2006, Organised by: Department of Botany Mohan Lal Sukhadia University, Udaipur - 313002

Exclusive medicinal uses of Some plants in Khunti sub-division of Chottanagpur. National Seminar on "Socio-Economic Morbidity pattern, Demographical change and cultural heritage in Damodar Basin", November 26&27, 1999, Organized by : Giridih College Giridih, Sponsored By: UGC ERO., Kolkata)

Deforestation: A menace to tribals of Lohardaga, Conservation and Utilization of Bamboo plantation through Peoples Participation in Lohardaga, One Day Seminar on rehabilitation of degraded forest through peoples participation at Karaundi, Gumla, Organized by : GRAMYA a Voluntary Organization), Sponsored By: MOEF, Govt. Of India

Studies on the Angiospermic Flora of Ponds of Ranchi,

Folk Herbal Remedies Used By Tribals of Jharkhand against Post Partum Diseases

Floristic Studies of Orchids Of Ranchi, National Seminar on Plant Taxonomy and Biodiversity, Majal Gaon Maharashtra, Organized by : Majal Gaon College Majalgaon, Sponsored By: UGC

Cultivation of Medicinal Plants in the schools of Ranchi, National Seminar on importance of medicinal plants cultivation in promoting the rural economy and supporting rural health care system. Organized by: Society for Environment and social awareness (SESA), Jharkhand, Supported by : National Medicinal Plant Board (NMPB), Govt. of India

Study on Quantity and composition of waste generation in Ranchi Municipal area, National conference on Population growth, Pollution and Biodiversity loss : A Bio-Social approach, February 18th & 19th 2005, Organized by : SSM College, Ranchi, Sponsored By: UGC, ERO, Ranchi

National seminar on global warming and climate change, June 15-16th 2008. Organized by: Vinoba Bhave University at Ramgarh College, Ramgarh. Topic: Aquatic weeds: Silent agents for global warming.

2nd National conference of Zoology, Recent Trends in Ecological Researches in India with Focus on Jharkhand, Organized by: S.S. Memorial College, Ranchi, November 17-19, 2008.

Topics: i. Victoria Lake: Noticeable changes in succession.

ii. Ponds in Ranchi : Needs urgent Conservation.

iii. *Jatropha curcus* : The Green Fuel .

International Conference on Transdisciplinary Biological Research, Nov. 20-22, 08. Organized by: Madhawi Shayam educational Trust, at ILRI, Namkom, Ranchi.

Topic: Studies on Angiospermic diversity of Victoria Tank, Lohardaga, Jharkhand

xxi annual conference of Indian Botanical Society and International symposium of plant biology and Environment: Changing scenario. December. 17-19, 2008.

Organized by: Department of Botany, University of Allahabad, Allahabad

Topic: *Alternanthera philexorooides* : Altering the aquatic vegetation in the ponds of Jharkhand.

National Science Congress , 2009

Organized by: The Indian Science Congress Association at North Eastern Hill University, Sillong (Meghalaya) from January 3rd -7th 2009. in the section - Environmental sciences.

Topics: i. Quantity and quality of waste generated in Hazaribag Municipal area, Jharkhand : An analytical study.

ii. Waste: a resource at Ranchi, Jharkhand

National seminar on awareness and application of Biotechnological development in Agriculture and allied resources and its impact on environment, March 24th -25th 2009.

Organized by: Department of Botany, Patna science college, Patna.

Topic : Seasonal fluctuation of physiochemical characteristics of a temple pond at Lohardaga.

International conference on Recent Trends in Life Sciences Researches vis - a vis Natural Resource Management, Sustainable development and human welfare, June 27th -29th 2009.

Organized By: Vinoba Bhawe University, Hazaribag, Jharkhand.

Topic : Ecological impacts on potential cultivation of Aquatic Angiosperms for its economic uses in the state of Jharkhand .

18th APSI Scientists Meet 2009 and National Conference on Plant Sciences: Diversity, Products & Environmental Planning, October 11th &12th ,2009.

Organized by: Department of Botany, Marwari College Ranchi and Academy of Plant Sciences India, Muzaffarnagar(UP).

Topic:1. Invasion of Exotic weed Species : Threat to Native Flora

11. Assessment of Biochemical and profile changes during Differentiation in *Desmodium gangeticum* weight & Earn.

National Conference on Recent Trends in Biotechnology and Environment Management 10 and 11th April,2010.

Organized by: Department of Zoology, women's College Hydrabad,

Topic: Solid Waste Management in Ranchi (Jharkhand): Success through GO- NGO Collaboration

XXXII Annual Meeting of Indian Botanical Society, and International Symposium of diversity of Plants and Microbes, December 28th to 30th 2009.

Organized by: Indian Botanical Society and Kuvempu University, Shankargatha Shimoga, Karnataka.

Topic: Studies on Aquatic and Semi Aquatic Angiospermic Biodiversity of Pakur,

XXXIII Conference of Indian Botanical Society, and International Symposium on The New horizons of Botany,, 10-12th November 2010.

Organized by: Indian Botanical Society and Department of Botany, Shivaji University, Gwalior..

Topic: Aquatic Weeds : Control is Must.

96th Indian National Science Congress, Section Environmental Sciences

3rd-7th January,2009.Organized By: Indian Science Congress Association, National Hill University, Shillong. Topic Quantity and quality of Waste generated in Ranchi Municipal Corporation

97th Indian National Science Congress, Section Environmental Sciences

3rd-7th January,2010Organized By: Indian Science Congress Association, University of Kerala and ISRO at University of Kerala. Topic: Environment Education in Schools of Ranchi : Success through GO: NGO Collaboration.

98th Indian National Science Congress, Section Environmental Sciences

3rd-7th January,2011Organized By: Indian Science Congress Association, S.R.M. University, Chennai. Topic: Aquatic Weed In Jharkhand

99th Indian National Science Congress, Section Environmental Sciences

3rd-7th January,2012,Organized By: Indian Science Congress Association, Kalinga Institute of Technology, BhubaneswarTopic:

100th Indian National Science Congress, Section Environmental Sciences

3rd-7th January, 2013, Organized By: Indian Science Congress Association, University of , Kolkata ,Topic: Go- NGO collaboration on Solid Waste Management in Jharkhand .

101st Indian National Science Congress, Section Environmental Sciences

3rd-7th January, 2013, Organized By: Indian Science Congress Association, University of , Kolakata ,Topic:

102nd Indian National Science Congress, Section Environmental Sciences,3rd-7th February , 2014, Organized By: Indian Science Congress Association, University of , Jammu ,Topic:

103rd Indian National Science Congress, Section Environmental Sciences, 3rd-7th January , 2015, Organized By: Indian Science Congress Association, University of , Mumbai ,Topic:

104th Indian National Science Congress, Section Environmental Sciences, 3rd-7th January , 2015, Organized By: Indian Science Congress Association, University of , Mysore ,Topic:

105th Indian National Science Congress, Section Environmental Sciences, 3rd-7th January , 2015, Organized By: Indian Science Congress Association, Venkateshwara University Tirupati ,Topic Alien invasive plant species in Santhal Pargana : Pros and Cons

UGC Sponsored National Seminar on Water Pollution and its recent challenges. April 29-30, 2011.(NSWPRC 2011).Organised by: Department of chemistry, Sido – Kanhu Murmu University, Dumka-814101, Jharkhand.

Topic: Contamination of ground water due to solid waste *Vis a vis* need of effective waste management in Jharkhand.

Topic: invasive Aquatic weeds causing serious problem in in the water bodies of Santhal Parganas(Jharkhand)

Topic: Awareness among school children for water conservation and environmental issues in Jharkhand.

UGC Sponsored National Seminar on Medicinal Plants Cultivation For Promoting Rural Economy In Bihar. Organised by: Department of Botany, Gopeshwar College, Hatua, Gopalganj(A constituent of jai Prakash University, Chapra, Bihar).

Topic: Studies on Herbal Medicine (Jadi-Booti) sold in the rural markets of Pakur(Jharkhand).

Topic;Etnobotanical wisdom and Management of aboriginal in Dumka District of Santhal Pargana.

Topic: Biodiversity and distribution of medicinal Plants in Dumka of Jharkhand.

Topic: Ethnobotanical Investigation of Behrampur Subdivision of Murshidabad (West Bengal)

Topic : Etnomedicinal plants used in Human Therapy by Tribes of Santha; Pargana, Jharkhand.

3rd International Conference on Bio-Resources Development & Natural Resource Management For Community Upliftment (ICBRD & NRMCU-10) From 13th -15th December, 2010.

Venue: Krishi Gram Vikash Kendra (KGVK) TMV Gurukul Campus, Rukka, Ranchi (Jharkhand).

Organised by: International Consortium of Contemporary Biologists(ICCB), MadhaWI Shayam Educational Trust) Ranchi and Silk Society of India (SSI) Nagpur

Sponsoerd by: Legendry Life Scientist Memorial / Foundation chairs & NABARD, Ranchi.

Topic: Uncontrolled growth of Eichhhornia crasspes : Threat to the Ponds in Jharkhand.

UGC Sponsored National Seminar on Biodiversity Conservation,18th -19th September, 2010.

Organized by: L.P.Sahi College, Patna & S.G.G.S. College, Patna City, Magadh University, Bodh Gaya.

National Seminar on Threats to Biodiversity Conservation in India, September, 13th- 14th ,2010.

Organized by : T.N.B. College Bhagalpur under the collaboration with P.G. Department of Biotechnology, T.M. Bhagalpur University, Bhagalpur.

Topic: The Floristic Studies of Aquatic and Semi Aquatic Angiosperms of Ranchi(Jharkhand).

UGC Sponsored National Seminar on The Exploration, Protection and Conservation of Biodiversity and Traditional knowledge, February 4th-5th ,2011.

Organised by: Department of Botany, Gaur Mahavidyalaya, Malda and Paschim Banga Vigyan Mancha, Malda District Committee, West Bengal.

Topic: Cultivation of Millets: an attempt to conserve local Biodiversity

Topic: Floristic studies of Ponds of Behrampur subdivision of Murshidabad district of West Bengal

Topic: Study of biodiversity of Phytoplankton in Sen Pokhar of Dumka District, Jharkhand.

Topic: Aquatic Biodiversity in Ponds around IISCO Steel Plant, Burnpur, Asansol, West Bengal..

Studies on weed biodiversity of Pakur, Jharkhand.

State level Seminar on Higher Education In Jharkhand : Scope and Challenges 19- 20 September, 2010.

Sponsored by: Swarn Rekha Institute of Technical Education and Jharkhand Viswavidyalaya Samaj.

Aquatic Weed Biodiversity visa-e –Vis Conservation of Waterbodies in Jharkhand, National Seminar on Environment and Development in Eastern India (Status, Issue and challenges). Organised by Yugantar Bharti in Collaboration with Nature foundation RU, VBU, SKMU, KOLhan University and NPU. December 17&18, 2016.

Problems and diseases associated with aquarium and water garden plant ,Advances in Phytopathology in Globalised era with reference to Eastern India. Organised by Indian Phytopathological Society , Eastern Zone. January 29&30, 2015.

Exploration and Conservation of Nutritionally important Aquatic Plants Of Jharkhand, 6th Internatinal Conference for Nutritional Security, Environmental Conservation & Human Health in Rural India. Organised by International Consortium of Contemporary Biologists. 22-24th December , 2014.

Aquatic plants, UGC Sponsored national Seminar on Prospects of Cultivation and Marketing of Medicinal plants in Jharkhand. Organized By Chas College, Bokaro .April 11th and 12th, 2015.

Plants as substitute of Gem Stone. XXXV All India Botanical Conference and National Symposium on Role of Plants and Microbes in The betterment of man Kind in the changing Climate .Organized by IBS and Shayajirao University Badodra Gujarat.

The Floristic studies of Aquatic and Semi aquatic Angiosperms of Pakur Jharkhand. All India botanical Confernece and National Symposium on Diversity of Plants and Microbes: Present Scenario. XXXII All India Botanical Conference.

ORGANIZING SEMINAR/CONFERENCE/WORKSHOP

National seminar on biodiversity, Taxonomy and conservation at KKM College, Pakur on 6th and 7th May as Organising secretary, 2016, Sponsored by UGC,ERO Kolkata.

IQAC Supported National Seminar On Problems and Prospects of Higher Education in India with special Reference to Jharkhand 18th July , 2017 as organizing secretary .

Workshop on Herbarium Technique, 2017. organized by department of Botany, KKM College, Pakur, as organizing secretary.

Books

1. Alien Invasive Flora of Santhal Pargana, Jharkhand(India) by Mukherjee and Dutta Published by National Publishers and Distributors,Saket Nagar Varanashi (U.P.) ISBN 978-93-83583-38-6.
2. Biodiversity, Taxonomy and Conservation By Mukherjee and Bondya Published by Srijan Samiti Publication Varanashi-221004.ISBN 978-93-83583-24-9.
3. dsUnz (Edited)
4. Ethnobotany, Cultivation and Utilization of Plants,2020. Jyoti Kumar and Prasanjit Mukherjee by Srijan Samiti Publication Varanashi-221004.ISBN 978-93-83583-44-7.

PH.D. SUPERVISION

1. **Topic** - The Floristic Studies of Alien Invasive from Religious and Tourist spots of Santhal Pargana by Saurabh Dutta –Year of completion 2016 -

2. **Topic** – Management of Municipal Solid Waste in Urban Local Bodies of Santhal Pargana : Problems and Prospects By Samuel Kisku-Year of completion 2016
3. **Topic-** The Floristic, Morpho- taxonomy and anatomical studies of some hydrophytes in Pakur by Mithilesh Kumar - year of Completion 2013.
4. Topic- The Angiospermic Diversity In And Around Black Stone Mines Of Pakur With Special Reference To Their Impact On Plants And Environment.by Archana Kumari Jha .Y.era of Completion 2022

PH.D . EVALUATED

1. Studies on Fossils Flora of East Godavari District –St. Gadge Baba Amrawati University –By V.M.Sendge under the Supervision Of Sr. S.R.Manik
2. Assessing the Impact of Varying Climatic Conditions in the Distribution of *Buchnania coachinchinensis* (Lour.) M. R.Almeidain Jharkhand Using Geo-statistical Modeling Technique by Shambhu Nath Mishra under the Supervision of Dr. Sharad Tiwari, Institute of Forest Productivity, Lalgutwa, Ranchi Under Forest Research Institute (Deemed)University ,Dehradun.

Dr. Prasanjit Mukherjee

