

## BIO-DATA

1. Name : **Dr. Dipak Konwar**
2. Designation : HoD & Associate Professor
3. Father's name : Late Kanakeswar Konwar
4. Permanent address : 2C Upamanyu Enclave  
Lankeswar, Pachim Jalukbari  
Dist. Kamrup (M), Assam  
PIN. 781014, India.
5. Present address : Department of Botany  
Pub Kamrup College  
Baihata Chariali  
Kamrup, Assam, India  
PIN: 781381
6. e-mail address : dipak.pkc@gmail.com
7. Mobile No. 9854933995
8. Date of birth : 23-09-1972
9. Educational qualifications: \*MSc in Botany  
(Specialization: Microbiology) from Gauhati University  
\*PhD from Gauhati University  
Topic: Studies on the effect of Bongaigaon Refinery  
Petrochemicals Effluents on the Rhizospheric  
Microorganisms of Rice (*Oryza sativa* L.) growing on the  
bank of River Tunia and their impact on rice yield  
Guide's Name: Prof. D KJha  
Year of award: 2007

### 10. List of Published papers in Journal:

\*Narayan Sarkar, Namita Deka, Suresh Bharali, Bidyut Bikash Deka, **Dipak Konwar**, Gunajit Kalita, 2024. In silico study of antituberculosis potential of phytocompounds of *Andrographis paniculata* and their admet analysis. Cahiers Magellanes-NS, Vol. 6, Issue: 2, pp. 39-52

\*Suresh Bharali, Narayan Sarkar, **Dipak Konwar**, Gunajit Kalita, 2022. Effect of Salicylic Acid (SA) on dormant Coleus tuber and its biochemical analysis before and after the tuber germination. International Journal of Food and Nutritional Science, Vol.11, Issue: 13

\* Suresh Bharali, Narayan Sarkar, **Dipak Konwar** and Gunajit Kalita, 2021. Anti-gibberellin effect of synthetic growth retardant Chlormequat chloride/Cycocel (CCC) on dormant Coleus tuber and its impact on biochemical values. NeuroQuantology, Vol.19, Issue 12, 2021, ISSN: 1303-5150

\* Chayanika Devi, Pankaj Kalita, Himashri Deka, Himjyoti Dutta, Ajit K Tamuli,

**Dipak Konwar**, Chadipiralla Kiranmai, Pichili Vijaya Bhaskar Reddy. 2021. Functional characterization of traditional rice based alcoholic beverages of Assam, North East India. *Annals of R.S.C.B.*, ISSN: 1583-6258, Vol 25, Issue 6, 2021, pp 14228-14240

\* Pankaj Kalita, Chayanika Devi, **Dipak Konwar**, Chadipiralla Kiranmai, Ajit K. Tamuli, Uday Sankar Allam, Kota Neela Manikanta, Pichili Vijaya Bhaskar Reddy 2021. Traditional rice beer of Assam, North East India: Traditionalism, Ethnobiology and its pharmacomedicinal trends. *Annals of RSCB*, Vol. 25, Issue: 6, 2021, ISSN: 1583-6258, Pp 14276-14293

\*Himashri Deka, Chintu Mani Saikia, Biswajit Barman, Pankaj Kalita, **Dipak Konwar** 2021. An exploration of Aromatic and Spice yielding plants of Darrang district, Assam, India. *Journal of Intellectuals*, Vol. 1, Issue: 1, pp. 33-50

\*Gupta L, Saikia CM, Sharma A, Ahluwalia SK, Vermani M, **Konwar D**, Vijayraghavan P. **2019**. *Myristica fragrans* extract inhibits melanin biosynthesis, hyphal growth and appressorium formation in *Magnaporthe oryzae*. *Current Research in Environmental & Applied Mycology (Jr. of Fungal Biology)* 9(1), 255-270, Doi 10.5943/cream/9/1/22

\*Hatibaruah D.K. and **Dipak Konwar**, 2015. Seasonal diversity of arbuscular mycorrhizal fungi associated with the rhizosphere of *Persea bombycina* in Sivsagar District of Assam (India). *Indian Journal of Applied Research*, Vol. 5, Issue: 7; pp. 25-27

\*Kalita PC and **Dipak Konwar**, **2012**. Study on wild edible fruits of Brahmaputra valley, Central Assam, India. *Advances in Plant Science* 2012 vol.25 no.2, ISSN 0970-3586 pp 585-589

\*Kalita PC and **Dipak Konwar**, **2012**. Indigenous and Herbal Medicines in prevention and treatment among the different communities of Madankamdev Hill Region, central Assam. *Adv. Plant Sci.*, Vol. 5, Issue: 1; ISSN: 0971-9350; pp. 71-77

\*Paresh Ch Kalita and **Dipak Konwar** **2010**. Indigenous and herbal medicines in prevention and treatment among the different communities of Madankamdev hill region, central Assam. *Journal of Advanced Plant Science*, Vol 5(1&2), Botanical Society of Assam ISSN 0971-9350

\***Dipak Konwar** and D.K.Jha **2010**. Response of rice (*Oryza sativa*) to contamination of soil with refinery effluents under natural conditions. *Assam University Journal of Science and Technology: Biological and Environmental Sciences*, Vol. 5(1), Assam University, Silchar, India

\***Dipak Konwar** and D. K. Jha **2009**. Effect of abiotic stress caused by refinery effluents on the vesicular-arbuscular mycorrhiza of rice (*Oryza sativa*) rhizosphere. *Journal of Advanced Plant Science*, Vol. 4(3&4), ISSN 0971-9350, Botanical Society of Assam, India

\***D.Konwar** and D.K. Jha **2007**. Fungal species diversity in the refinery effluent polluted rice rhizosphere. *Journal of Applied Bioscience and Biotechnology*, Vol. 3(1), North East Biotechnological Association, India

#### 11. List of book chapters/research articles published in books:

\*Benjin Sultana and **Dipak Konwar**, 2026. Folk remedies from Medicinal Plants: A study of selected tribes in Assam, India. *In: Journey into folk Medicine: Traditional Healing*

Practices in North East India. Published by: EBH Publishers, Guwahati-01, ISBN; 978-93-48106-06-3, pp102-113

\*Tina Kalita and **Dipak Konwar** 2025. Application of AMF as Biofertilizer for sustainable agriculture with particular reference to *Glomus* sp. In: Bio-Res: A Peer-reviewed edited research book, Vol. I, ISBN 978-93-93843-85-2, pp. 265-275

\***Dipak Konwar** 2025. Application of Arbuscular Mycorrhizal-fungi (AMF) in Agriculture with Particular Reference to Rice (*Oryza sativa* L.). In: Emerging Trends in Research in Science (Vol – II); Published By: Research and Development Cell, Nalbari College, Nalbari ISBN: 978-81-966816-8-5, pp 220-228

\***Dipak Konwar** 2024. Application of microorganisms for sustainable agriculture: with particular reference to VA-mycorrhiza and PGPR. In: Multifaceted Interfaces of Sustainable Development, ISBN: 978-93-93843-46-3, pp. 139-146

\***Dipak Konwar** 2024. An introduction to biodiversity of Assam. In: 69th ILA International conference on Building the future: Transforming Libraries for sustainability through capacity building, ISBN: 978-81-956082-7-0, pp. 49-52

\*Benjin Sultana and **Dipak Konwar** 2024. The exotic plant species of Assam: with special reference to their uses. In: A review of multidisciplinary innovation and research, pp. 150-156

\***Dipak Konwar** 2023. National Education Policy (NEP):2020 and Gauhati University-Four Year Under-Graduate Programme (FYUGP). In: Unconventional Career Options through Conventional Subjects; Publisher: Pub Kamrup College, pp. 1-6

\***Dipak Konwar** 2021. Occurrence, distribution and role of VAM fungi in particular reference to Sericulture host plant *Persea bombycina* King. In: Recent Trends and Possibilities in Mycological Research, Publisher: Krishna Publication House, Gujrat-364002; pp 01-08

\***Dipak Konwar** and D K Jha 2017. Assessment of response of rice (*Oryza sativa* L.) to dual inoculation of VA-mycorrhiza and PGPR under stress caused by oil refineryeffluents. In: Alternative approaches in agriculture (proceeding of UGC sponsored seminar, SBMS College). ISBN: 978-81-92955-55-1

\*Himashri Deka, Pankaj Kalita, Kamal Sarma and **Dipak Konwar** 2017. Evaluation of nutritional composition, nutraceutical property and antioxidant activity of peel extract of two selected species belong to Cucurbitaceae family. In: Food and Bioprocess Research for Industrial Application. ISBN: 978-81-93152-50-9 pp 63-71

\*Chintu Mani Saikia, Pankaj Kalita, Kamal Sarma and **Dipak Konwar** 2017. Analysis of Nutritional value, Pharmacological importance and Antioxidant activity of peel extract of three selected species belong to Citraceae family grown in Assam, India. In: Food and Bioprocess Research for Industrial Application. ISBN: 978-81-93152-50-9 pp 104-113

\*Deka H, Saikia CM, Kalita P, Reddy PVB, **Konwar D**, Raju NL 2017. An Ethnobotanical Exploration in selected districts of Lower Assam, India. In: Proceedings of Prospects of Applied Ethnobotany in North Eastern Region of India. ISBN: 978-81- 202-8805, pp 158-168

\*DK Hatibaruah and **Dipak Konwar** 2015. Association of Arbuscular Mycorrhizal (AM)

fungi with the rhizosphere of 'som' seedlings (*Persea Bombycina* Kost) during nursery stages in Golaghat district of Assam. In: Molecular Biology and Biotechnology Research in NE India. ISBN: 978-81-931525-0-8 pp 245-253

\*Pankaj Kalita, Lipika Lahkar, Chintu Mani Saikia and **Dipak Konwar 2014**. Ethnobotanical studies in Traditional Knowledge system of Alcoholic Beverage produced by three different tribal groups of Assam, India. In: Livelihood promotion through non-timber forest products in India with special reference to North East India, ISBN 978-1-925433-7-6; pp111-119

\*Kalita PC and **Dipak Konwar 2013**. Threat to Biodiversity of Madankamdev Hill Region, central Assam, India. In: Environmental degradation and its impact on Biodiversity (Proceeding of UGC sponsored National Seminar), ISBN:978-93-80261- 84-3 pp 150-157

\*D.K. Hatibaruah and **Dipak Konwar 2013**. Diversity in VA-Mycorrhizal fungi in the rhizosphere of 'som' (*Persea bombycina* (King ex Hook.f.) Kost) A primary host plant of muga silk worm with particular reference to Kamrup district of Assam, India. In: Proceedings of 'Traditional Knowledge Systems for Biodiversity Conservation in North Eastern Region of India' organized by Dhing College, ISBN: 978-81-925433-1-4, Pp 111-119

\*Pankaj Kalita and **Dipak Konwar 2013**. Utilization of plant diversity in traditional knowledge of alcoholic beverage production by three different ethnic groups of Assam, India. In: Proceedings of 'Traditional Knowledge Systems for Biodiversity Conservation in North Eastern Region of India' organized by Dhing College, ISBN: 978-81-925433-1-4, Pp 148-158

\* D.K. Hatibaruah and **Dipak Konwar 2013**. A study on muga post cocoon activities and prospect of technology adaptation in Kamrup district of Assam. India. In: Proceedings of 'Traditional Knowledge Systems for Biodiversity Conservation in North Eastern Region of India' organized by Dhing College, ISBN: 978-81-925433-1-4, Pp 130-138

\*D.K.Hatibaruah and **D. Konwar 2011**. A study on muga silk trade in Kamrup district of Assam, India. In: Proceeding of National Seminar on 'Seri biodiversity of NE India: its conservation and prospects', Jan.28&29, 2011, Dhing College, Assam, India. ISBN 81-202-8827-0978-0

\* **D. Konwar** and D.K.Jha **2005**. Population numbers and activities of rhizospheric micro organisms in soils polluted by effluents coming out from Bongaigaon Refinery and Petrochemicals. In: Stress Biology, Narosa Publishing House, New Delhi, India

## 12. List of Books written:

\*Nabajyoti Deka, Pinaki Kr Rabha and **Dipak Konwar**, 2025. *Praktik Sampad Babosthaponu aru Bahankhyam Unnayan* (A text book on Natural Resource Management and Sustainable Development written in Assamese for the Third Semester students of FYUGP-VAC Course). Published by: Binit Books, Guwahati. ISBN: 978-93-6990-553-9

\***Dipak Konwar**, 2025. *Udbhid Bijnanot Parikhyagar aru Khyatra Kaushalsamuh* (A text book on Laboratory and Field Techniques in Plant Science written in Assamese for the GU-FYGP 3<sup>rd</sup> Semester students). Published by: Ashok Publication, Guwahati-1, ISBN: 978-93-6078-211-5

\*Suresh Bharali and **Dipak Konwar**, 2024. *Kosh Jibabijnan aru Joibikanu* (A text book on Cell Biology and Biomolecules written in Assamese for the 2<sup>nd</sup> Semester

students). Published by: Surya Prakash, Guwahati-1; ISBN: 978-93-95051-51-4

\*Suresh Bharali, **Dipak Konwar**, Babajyoti Deka and Pinaki Kr Rabha, 2024. *Paribeshik Mulyayan aru Siksha* (A text book on Environmental Assessment and Education written in Assamese for the 2<sup>nd</sup> Semester students of FYUGP-Value Added Course). Published by: Surya Prakash, Guwahati-1; ISBN: 978-93-95051-26-2

\*Suresh Bharali, Ajit Kumar Oja, Rontumoni Deka, **Dipak Konwar**, 2023. *Moulik Jibobijnan* (A text book on Basics in Life Science written in Assamese; GU-FYUGP, MDC-I). ISBN: 978-93-95051-77-4; Published by: Surya Prakash, Guwahati-1

\*Nirmal Ranjan Mazumdar, Montu Saikia and **Dipak Konwar**, 2023. *Prasnottarat Panchash Bosoriya Pub Kamrup College* (A compilation of information related to Pub Kamrup College, published on the occasion of the Golden Jubilee of the College). Publisher: Pub Kamrup College, Baihata Chariali; ISBN: 978-81-964219-4-6

\*Suresh Bharali, **Dipak Konwar**, Nabajyoti Deka and Pinaki Kumar Rabha 2023. *Parevesh Adhayan* (A Textbook of Environmental Studies written in Assamese for GU-FYUGP First semester VAC Course). Published by: Surya Prakash, Guwahati-01; ISBN: 978-93-95051-07-1

\*Suresh Bharali and **Dipak Konwar**, 2022. *Kathphula Karshan Paryukti* (A text book on Mushroom Culture Technology written in Assamese for the CBCS 5<sup>th</sup> semester SEC students). Published by: Surys Prakash, Guwahit-1; ISBN: 978-93-91338-11-4

\*Suresh Bharali and **Dipak Konwar**, 2021. Nursery and Gardening (A textbook of SEC for 4<sup>th</sup> Semester CBCS Course). Published by: Surys Prakash, Guwahit-1; ISBN: 978-93-91338-71-8

\*Suresh Bharali and **Dipak Konwar**, 2021 & 2022. *Arthanaitik Udbhid Bijnan aru Jibaprajuktibijnan* (A Textbook on Economic Botany and Biotechnology written in Assamese). Published by: Surya Prakash, Guwahati-1; ISBN: 978-93-91338-38-1

\***Dipak Konwar** and Pinaki Kr. Rabha, 2021. *Snatok Moholar babe Parivesh Adhyan* (A text book written in Assamese on Environmental Studies for the Under Graduate students of CBCS Second Semester Ability Enhancement Compulsory Course). Published by: M L Publication, Guwahati-01

\*Paresh Ch. Kalita and **Dipak Konwar** 2020. Fern Flora of Madan Kamdev Hill Range (Kamrup Dist. of Assam, India). ISBN: 978 93 88884 42 5; Published by: EBH Publishers, Guwahati-1

\***Dipak Konwar**, 2011. *Jalabayu Paribarttan* (A book written in Assamese on Climate change-its causes, effects and prevention measures). Published by: Aaranyk, a society for Biodiversity conservation in NE India, Guwahati-28.

\*Ananta Borah, **Dipak Konwar** and R.K.Das, 2010. *Asamar Udbhid aru Sarai: Parisayatmak Biwaran* (A book written in Assamese on Indigenous Plants and Birds of Assam). Published by: Prof. Alak Kumar Buragohain, Registrar, Tezpur University, Tezpur-784028. (2<sup>nd</sup> Edition published in 2028 with ISBN 978-81-935387-1-5

\***Dipak Konwar**, 2007. *Ami Kon Dishe?* (A book written in Assamese on issues and problems of environment). Published by: Published by: Aaranyk, a society for Biodiversity conservation in NE India, Guwahati-28.

\***Dipak Konwar**, 2006. *Dhemalir Salare Parivesh Siksha* (A book written in Assamese on Environmental Education). Published by: Published by: Aaranyak, a society for Biodiversity conservation in NE India, Guwahati-28.

### 13. List of books edited:

\***Dipak Konwar** and Nayanmoni Baruah, 2023 (associate editor). *Sonalee Saurabh*, a souvenir published on the occasion of Golden Jubilee of Pub Kamrup College. Published by: Principal, Pub Kamrup College; ISBN: 978-81-964219-9-1

\***Dipak Konwar** and Pankaj Kalita, 2017. Food and Bioprocess Research for Industrial Application (A proceeding of UGC-NERO sponsored National Seminar on the same topic held on 15<sup>th</sup> and 16<sup>th</sup> September, 2017). Published by: Pub Kamrup College, ISBN: 978-81-93152-5009

\***Dipak Konwar** and Pankaj Kalita, 2016. A Glimpse of Biodiversity in India. Published by: S.K. Book Agency, New Delhi; ISBN: 978-93-8315-864-5

\***Dipak Konwar** and Pankaj Kalita, 2015. Molecular Biology and Biotechnology Research in NE India (A proceeding of UGC-NERO sponsored National Seminar on the same topic held on 19<sup>th</sup> and 21<sup>st</sup> August, 2015). Published by: Pub Kamrup College, ISBN: 978-81-93152-5009

\***Dipak Konwar** and Pankaj Kalita, 2014. Biotechnology and Bioinformatics: Tools, Techniques and Applications. Published by: Chintamani Prakashan, Guwahati-24, ISBN: 978-81-931525-0-8

### 14. No. of Research Projects: 03

i) UGC sponsored Minor Research Project: Evaluation of Vesicular- Arbuscular Mycorrhizal diversity of Muga Silkworm Food Plant 'Som' (*Persea bombycina*) of Assam (completed)

ii) DBT sponsored twinning project: Exploring the inhibitory effect of bio-pesticide on virulence And pathogenicity of *Magnaporthe oryzae*(completed)

iii) DST Sponsored major project: Role of Calcium binding protein parvalbumin extracted from natural sources of Assam on neural plasticity associated with epilepsy. 2023 (Co-PI)

15. **Research Guideship:** Research guide of Department of Botany, Gauhati University Present no. of Research Scholar-03.

16. **Teaching experience** :i)About ten years(from August 1998) experience as Subject Teacher (English Medium) in BRPL Vidyalaya, Dhaligaon, Assam.  
ii) Presently working as HoD & Associate Professor, Department of Botany, Pub Kamrup College, from Dec. 2009

17. **Award/Fellowship:** Fellow of Botanical Society of Assam

18. **Organizational Capability:**

\* Conducted workshop on 'Basic concepts and techniques of Histology, Microbiology and Biochemistry used in Biological Science', 25 & 26 October, 2013

\* Organized workshop on 'Application of allied sciences in life science study', 22-24 March, 2013

\* Conducted workshop on 'Hands on training on molecular biology with special emphasis on PAGE and PCR' on 21 & 22 March 2014 as coordinator

\* Organized DBT, Govt. of India sponsored 'Series of Popular Lecture Programme' on 20<sup>th</sup>, 31<sup>st</sup> Jan. and 10<sup>th</sup> Feb, 2015 as Co-coordinator

\* Organized Sensitization Programme on Biodiversity and Climate Change (sponsored by ASTEC, Govt. of Assam) on 30<sup>th</sup> Jan. 2015

\* Organized Lecture programme on "Urban and rural wildlife" on 29-06-2015

\* Organized the Advisory Committee Meeting of Star College Scheme where DBT, Govt. of India Joint Director Dr Sandhya Shenoy was present on 26-06-2015

\* Co-ordinator, Workshop on 'Hands on training on Molecular Biology with special reference to PAGE and PCR, dated: 21&22 March, 2014

\* Organized the 'summer research training programme for students' from 6<sup>th</sup> July, 2015

\* Co-cordinator, DBT sponsored 'Series of popular lecture programme' on 20<sup>th</sup>, 31<sup>st</sup> Jan. and 10<sup>th</sup> Feb. 2015

\* Organized (as Organizing Secretary) UGC Sponsored National Seminar on 'Molecular Biology and Biotechnology Research in NE India (MBBRNEI), 19-21 August, 2015

\* Co-coordinator, DBT Sponsored 'Brain Awareness Week', 26-31 March, 2016

\* Convenor, UGC sponsored National Seminar (FaBRIA), 15 & 16 September, 2017

\* Organized, "Summer Internship Programme", 1-6 July, 2019

\* Joint Convenor, CBCS Implementation Committee, 2019

\* Coordinator, ASTEC Funded Medicinal plant garden, 2019

\* Jt. Organizing Secretary, Assam Botanical Congress and International Conference on Plant Science, 3-5 Dec. 2021

\* Organizing Secretary, Symposium on Sericulture of Assam: the tradition and economics, 20<sup>th</sup> February, 2024

\* Convenor, ASTEC funded Workshop on Rare, Endangered and Threatened Plants, on 8 & 9 November, 2024

19. **Other activities and Experiences**

:

a) Served as Teacher Representative in the Governing Body, Pub Kamrup College (two terms)

b) Served as Assistant Coordinator, IQAC Pub Kamrup College (for more than 11 years)

c) Conducted Aaranyak-Rufford Small Grant Project

‘Environment Education for the School Students of Bongaigaon Dist.’

- d) Served as Secretary, Assam Science Society, Pub Kamrup branch.
- e) Associated with National Environment Awareness Campaign, Govt. of India.
- f) Delivered lectures on the topic like Biodiversity and its conservation, Issues and problems of our environment etc. at different schools and colleges of Kamrup, Bongaigaon and Chirang district of Assam.

**20. Life Membership:**

- i) Assam Science Society, Guwahati, Assam
- ii) Botanical Society of Assam, Guwahati, Assam
- iii) North East Biotechnological Association, Assam
- iv) Indian Science Congress
- v) International Mycological Society

**Declaration:**

I hereby declare that the above particulars are true to the best of my knowledge and belief.

(Dipak Konwar)

Date:

Place: