

Personal Profile

Name	DR. PRITHVIRAJ KARAK	
Designation	Assistant Professor	
Date of birth	04/10/1975	
Educational qualification	M.Sc., Ph.D.	
Permanent address	Khudiram Sarani, Milan Palli, Kenduadihi, Bankura-722102	
Contact number	+91-9830009422 (WhatsApp); +91-8637085791	
E-mail	drpkarak@gmail.com prithviraj@bankurachristiancollege.in	
Date of joining this institution	05th November 2011	
Past services	From August 2005 to October 2010; worked as Assistant Professor, Department of Physiology, Konaseema Institute of Medical Sciences and Research Foundation, Amalapuram, E.G.Dist., Andhra Pradesh	
Areas of teaching	<ul style="list-style-type: none"> • Cellular Basis of Physiology, • Biophysical Aspects of Cellular Functions and Enzymes • Physiology of Nerve and Muscle Cells • Chemistry of Biomolecules • Circulating Body Fluids • Circulation • Functions of the Nervous System • Energy Balance, Metabolism, and Nutrition • Gastrointestinal Physiology • Respiratory Physiology • Special Senses • Endocrinology • Reproduction • Excretion, Skin and Body Temperature Regulation • Microbiology and Immunology • Sports and Exercise Physiology • Environmental Physiology and Toxicology • Biostatistics 	
Vidwan Portal ID	240954	
ORCID ID	0000-0001-5825-8950	
Google Scholar ID	https://scholar.google.com/citations?user=LBp52GIA	

	AAAJ&hl=en	
Research Gate ID	https://www.researchgate.net/profile/Prithviraj-Karak	

FACULTY DEVELOPMENT PROGRAMME

Name of the Course/ Summer School	Place	Duration	Sponsoring agency
Orientation Programme	ASC, The University of Burdwan	90 th Orientation Programme (4.06.2013-to-01.07.2013.)	UGC
Refresher Course	ASC, The University of Burdwan	1 st Refresher course in Biological Sciences (10.10.2014 to 30.10.2014)	UGC
Refresher Course	Human Resource Development Centre, The University of Burdwan, Burdwan.	Environment & Sustainability from 03/01/2020 to 16/01/2020	UGC
Short Term Course	Human Resource Development Centre (HRDC) University of Calcutta, Calcutta	07-days (09th February 2021 to 15th February 2021)	UGC
Faculty Development Programme	Vidyasagar University	10/02/2022 to 16/02/2022	Computer Centre and IQAC, Vidyasagar University
Refresher Course in Synthetic Biology	Human Resource Development Centre, The University of Burdwan, Burdwan.	14days (16 th June 2022 to 29 th June 2022)	UGC

RESEARCH JOURNAL PUBLICATION (NATIONAL AND INTERNATIONAL)

International:

1. Pasupati Nath Tiwari, Ayesha Rehman, C. Sreedhar, Zinnat Akhtar Jahan, Raju Kundavaram, Indrani Bhattacharyya, Radheshyam Pal, Sumel Ashique, Rimpa Jana, Shubneesh Kumar, Krishnendu Adhikary, Rajkumar Maiti and **Prithviraj Karak**. Development and Validation of an RP-HPLC Method for the Determination of Rifapentine in Bulk and Pharmaceutical Dosage Form. *Eur. Chem. Bull.* **2023**; 12(7):4114-4128. [Indexed in Scopus]

2. Madhumita Chowdhury, Sagarika Chowdhury, Ashmita Bhattacharjee, Chandrima Roy, Riya Sarkar, Krishnendu Adhikary, Rajkumar Maiti & **Prithviraj Karak**. Natural antioxidants and nutraceuticals to fight against common human diseases: an overview. *Eur.Chem.Bull.* **2023**; 12(Special Issue 9): 1505-1521. [[Indexed in Scopus](#)]
- 3.**Prithviraj Karak**. Effect of smoking on cardiorespiratory fitness among college students of Bankura. *Al Ameen Journal of Medical Sciences.* 2022;15(4): 270-77.[[UGC-CARE List Group-I, Sr.No. 20](#)]
4. Priya Das, Aresh Banerjee & **Prithviraj Karak**. Molecular interplay between vitamin D and immunity can aid antitubercular treatment. *Defence Life Science Journal.* 2022; 7(3): 209-220.[[UGC-CARE List Group-I, Sr.No. 95 & Indexed in Scopus](#)]
5. **Prithviraj Karak**, Abhinaba Gupta, Pranay Karmakar and Rajkumar Maiti. Comparative study of physical fitness among rural and urban school students of Bankura, West Bengal. *Al Ameen Journal of Medical Sciences.* 2022;15(3): 203-209.[[UGC-CARE List Group-I, Sr.No. 20](#)]
6. **Prithviraj Karak**, Rajkumar Maiti. Assessment of Pulmonary Function Test among Petrol Pump Workers in Bankura District. *Asian Pacific Journal of Health Science.* July-September 2022; 9(3):204-208.[[UGC care journal](#)]
- 7.**Prithviraj Karak**. Arsenic contamination and its impact on the human. *Current world environment.* April 2022; 17(1):58-73.[[UGC-CARE List Group-I, Sr.No. 92](#)]
8. Mousomi Roy, Arindom Banerjee, Satyanarayana P, Rajkumar Maiti, **Prithviraj Karak**, Fatik Baran Mandal. Study of BMI, Glucose Level and Lipid Profile in Type 2 Diabetes Mellitus. *International Journal of Pharmaceutical Research.* Jan-Mar 2021; 13(1): 28-35. [[UGC Reference No.63703 & Indexed in Scopus up to March 2021](#)]
- 9.Mousomi Roy, **Prithviraj Karak**. Health impact of Obesity: An Overview. *International Journal of Pharmaceutical Research.* Jan-Mar 2021; 13(1):622-629.[[UGC Reference No.63703&Indexed in Scopus up to March 2021](#)]
10. **Prithviraj Karak**, Anindya Modak & Fatik Baran Mandal. Medicinal properties of Pudina (Mentha) from India. *Wesleyan Journal of Research.* 2019;11(1):51-58.[[UGC Reference No.](#)]
11. **Prithviraj Karak**. Biological activities of flavonoids: an overview. *International Journal of Pharmaceutical Sciences and Research.* 2019; **10(4)**:1567-1574.[[UGC Reference No. 23330](#)]
12. Moumita Dutta, Tultul Chowdhury, Rajkumar Maiti, Fatik Baran Mandal, Abhijit Sinha, **Prithviraj Karak**. A preliminary report on “knowledge, attitude, and practice” on “human immunodeficiency virus” among the students of a college in Bankura. *International Journal of Green Pharmacy* • July-Sep 2018 (Suppl.) 12 (3) | S665-S669.[[UGC Reference No. 22851](#)]
13. **Prithviraj Karak**, Rajkumar Maiti, Priya Das and Anushree Karmakar. Assessment of nutritional status of school children in rural and urban areas of Bankura, West Bengal.

International Journal of Pharmaceutical Sciences and Research.2018; **9(1)**:338-345. [UGC Reference No. 23330]

14. Rajkumar Maiti, **Prithviraj Karak**, Debanka Sekhar Misra and Debidas Ghosh. Diabetes induced testicular dysfunction correction by hydro-methanolic extract of *Tamarindus indica* Linn seed in male albino rat. *International Journal of Green Pharmacy (IJGP)*. 2017: S789-796.[UGC Reference No. 22851]

15. **Prithviraj Karak**. Health effects of ground water fluoride contamination in Bankura district of West Bengal, India. *Int J Pharm Bio Sci*. 2017; 8(3): 2017; 195-203. <http://dx.doi.org/10.22376/ijpbs.2017.8.3.b195-203>. [UGC Reference No. 17357].

16. L. Basu, A. De, P Sarkar, **P Karak** and S.G.Dastidar. Possibilities of developing novel potent antitumor agents from the leaves of *Cryptomaria japonica*. *International Journal of Phytomedicine*. 8 (2016) 404-410.<https://www.arjournals.org/index.php/ijpm/article/viewFile/1860/975>

17. Sougata Ganguly, Rajkumar Maiti, Megha Gupta and **Prithviraj Karak**. Comparative study of effect of farming on anthropological parameters among farmers and non-farmers. *Saudi J. Med. Pharm. Sci.* Vol-2, Iss-6(Jun, 2016):129-133. <http://scholarsmepub.com/wp-content/uploads/2016/07/SJMPS-26129-133.pdf>

18. **Prithviraj Karak**, Shauroseni Pal Choudhuri, Debalina Sinha Roy, Musfiqua Mookerjee, Bidisha Ghosh, Sukhen Das and Sujata G. Dastidar. Experimentally potent synergism resulting from combination of the antibiotic streptomycin with the non-antibiotic dicyclominehydrochloride. *European Journal of Biomedical and Pharmaceutical Sciences*; Volume 3, Issue 8, July 2016. http://www.ejbps.com/ejbps/archive_show/2016/Volume%203,%20August%20Issue%208

19. A. Dasgupta, Aditi Saha, G.V. Banerjee and **P. Karak**. Role of serum nitrogen oxide in treated hypertensive and normotensive subjects. *International Journal of Biomedical and Advance Research*, 2015; 6(05): 406-412.

20. V. Subhashini Rani, Dasgupta Anirban, MVR Sharma and **Karak Prithviraj**. Function Modifies Structure: an Experimental Analysis of Talar Facets and Extension in East Godavari District of Andhra Pradesh. *International Journal of Contemporary Surgery*, January-June, **2015**, Vol.3, No. 1. 106-111.

21. Rajdeep Chowdhury, **Prithviraj Karak**, Asish K. Sen, Raghunath Chatterjee, Ashok K. Giri and Keya Chaudhuri. Arsenic Extrusion and Energy Derivation as Survival Mechanism in a Novel *Exiguobacterium* from Arsenic-contaminated Groundwater of West Bengal, India. *American International Journal of Research in Formal, Applied & Natural Sciences* 7(1), June-August, **2014**, pp. 19-27.

22. Santosh Kumar Mahapatra, Musfiqua Mookerjee, Debalina Sinha Roy, **Prithviraj Karak**, Sukhen Das and Sujata G Dastidar. Evaluation of antimicrobial potentiality of a flavonoid, isolated from the leaf of the plant *Colebrookea oppositifolia*. *International Journal of Biological & Pharmaceutical Research*, 4(4): **2013**; 225-230.

23. Dasgupta Anirban, Banerjee Arindam and **Karak Prithviraj**. Estimation of Stature of Eastern Indians from Measurements of Tibial Length. *AnatomPhysiol*, 3(1): **2013**; 1-4.

24. Dasgupta A., Neogi A. and **Karak P**. Short communication of Polyglandular Autoimmune Syndrome Type I. *Wesleyan Journal of Research*, 3(1): 2010; 28-32.

25. Rajdeep Chowdhury, Asish K. Sen, **Prithviraj Karak**, Raghunath Chatterjee, Ashok K. Giri and Keya Chaudhuri. Isolation and characterization of an arsenic-resistant bacterium from a bore-well in West Bengal, India. *Annals of Microbiology*, 59(2): 2009; 1-6. [**\[Impact Factor: 3.0\]**](#)

26. Dasgupta A., Jaya J., Dutta N.K. Mazumdar K., **Karak P**. and Dastidar S.G. Studies on antimicrobial potential of the cardiovascular drug lacidipine. *In vivo (Athens, Greece)* 2007; 21 (5):847-50. [**\[Impact Factor:2.406\]**](#)

27. Basu L.R, Mazumdar K., Dutta N.K., **Karak P**. and Dastidar S.G. Antibacterial Property of the Antipsychotic Agent Prochlorperazine, and its Synergism with Methdilazine. *Microbiological Research*. 160 (2005), 95-100. [**\[Impact Factor: 6.7\]**](#)

28. **Karak P.**, Asok Kumar K., Basu L.R., Dasgupta A., Ray R. and Dastidar S.G., Experimental analysis of antimicrobial action of dicyclomine hydrochloride. *Biol. Pharm. Bull.* 27(12) (2004), 2010-2013. [**\[Impact Factor:2.264\]**](#)

29. Asok Kumar K., Dutta N. K., Mazumdar K., **Karak P.**, Ray R. and Dastidar S.G. Evaluation of synergism between aminoglycoside antibiotic streptomycin and the cardiovascular agent amlodipine. *Biological and Pharmaceutical Bulletin.* 27 (7), (2004), 1116-1120. [**\[Impact Factor:2.264\]**](#)

National:

1. **Prithviraj Karak***, Anindya Modak. Curcumin and its Anti-Cancer Properties: Kitchen to the Laboratory. *Indian Journal of Physiology and Allied Sciences*, 2022; 74(2): 13-18.

2. **Prithviraj Karak**, Arindom Banerjee and Aniraban Dasgupta. Holistic approach of yoga on blood pressure management. *Indian Journal of Medical Research & Pharmaceutical Sciences*, 1(5), 2014, 17-20.

3. Anirban Dasgupta, Arindom Banerjee, N Rammurthy, P Revati, Josna Jose, **P Karak** and Anil Kumar. Gestational age estimation using transcerebellar diameter with grading of fetal cerebellar growth. *National Journal of Clinical Anatomy*, 1(3): 2012; 115-120.

4. **Karak P.**, Asok Kumar K., Mazumdar Kaushiki, Chatterjee Moosifiqua and Dastidar S.G. Antibacterial potentiality of an antispasmodic drug dicyclomine hydrochloride. *Indian Journal of Medical Research*. 118; (2003), 192-196. [\[Impact Factor:1.503\]](#)

BOOKS / BOOK CHAPTERS / MONOGRAPHS

1. Krishnendu Adhikary, Riya Sarkar, Shaoli De, **Prithviraj Karak***, Prianka Mukhopadhyay. **2023**. An overview on post COVID complications: Long term effects of coronavirus after recovery. 'Recent Advances in Community Medicine and Public Health Volume 2'. Mahi Publication, ISBN: 978-81-19492-46-6. 34-75pp
2. **Prithviraj Karak**, Anindya Modak and Biswajit Mukherjee. **2022**. Healthcare Waste Management in Novel Coronavirus Disease 2019. Pathos of Pandemic: COVID-19. New Delhi Publishers, New Delhi, Kolkata. ISBN: 978-93-93878-00-7; 106-115p.
3. **Prithviraj Karak**. **2020**. Possible health effects of mobile phone radiation: an overview. "Organisms and Environment". Educreation Publishing; ISBN: 978-93-89808-99-5; 220-226p.
4. **Prithviraj Karak**. **2018**. "Health risk associated with fluoride contaminated ground water: some facts on Bankura district of West Bengal. Environmental Geography & Sustainable Society". Concept Publishing Company Pvt. Ltd., ISBN-13:978-93-86682-26-0; 325-341p.

POPULAR ARTICLES

Dr Prithviraj Karak. Obesity and its management. *Nutrimagics*. 2019.

PAPER PRESENTATION/ PARTICIPATION: CONFERENCES/SEMINARS /SYMPOSIA /WORKSHOPS

Title of the Seminar/Conference/Workshop	Title of the Paper	Sponsoring Agency	Name of the Host Institution	Date(s)
National Conference on Scientific Advancement for Sustainable Environment, Herbal Medicines and Impact on Health: An Earth day Celebration (SASE)	Arsenic contamination ground water and its impact on human health.	National Environmental Science Academy, New Delhi	Department of Dravyaguna, Faculty of Ayurveda, Institute of Medical Sciences, BHU, Varanasi	22-23 April, 2023
4 th Annual National Conference "MCCCON-2023" on "Food informatics: Opportunities and Challenges". Resource Person to deliver a Lecture on "Oral Presentation	Nutrigenomic Approaches for Obesity Management		Midnapore City College	4 th - 6 th February, 2023.

by Young Scientist Session'				
5 th Regional Science & Technology Congress, 2022-23.	Docetaxel-Loaded Nanoliposomes Delivered Drug Across The Blood-Brain Barrier In Rats: A Hope For The Successful Therapeutic Management Of Brain Cancer	Department of Science of Technology and Biotechnology, Government of West Bengal.	Bankura University	9-10 th January 2023
Workshop on “Conservation of Flora, Fauna, Nature scape & Human scape of Bankura Municipality”. Resource Person & Speaker	Conservation of Human scape of Bankura Municipality	West Bengal Biodiversity Board, West Bengal.	Bankura Christian College, Bankura.	23 rd September 2022
National level seminar on “National Nutrition Month-2022”. Resource Person & Speaker	Traditional food with a special reference to curcumin & its implication in woman & child health in tribal areas.	Paramedical College, Durgapur.	Paramedical College, Durgapur.	3rd September 2022
“HIV/AIDS awareness programe”, organized by Red Ribbon Club. Resource Person & Organizing committee member	Basics of HIV and AIDS	Red Ribbon Club, Bankura.	Bankura Christian College&NSS units.	2 nd April 2022
Online Workshop on High Performance Computing and AI for Computational Biology	-	National Supercomputing Mission.	Indian Institute of Technology Kharagpur and Tezpur University	Oct 29-30, 2021
One Day National Seminar on “Traditional Knowledge and Practice in Eastern India”	Ethno-medicinal study of pudina: A Review	Dept. of Higher Edu. Gov. of West Bengal	Bankura Christian College	15 th March 2018

RESEARCH PROJECTS

NIL

- Name of the Research Project:
- Funded by:
- Amount sanctioned:
- Memo No. and Date:
- Date of Completion:

RESEARCH GUIDANCE

- Name of the candidate:
- Registration No:
- Date of Registration: dd/mm/yy
- Area of Research: Title
- Awarded/Ongoing:

AWARD/RECOGNITION/MEMBER OF BOARD OF STUDIES/ACADEMIC ACTIVITIES

1. **Environmentalist of the Year Award SASE 2023@BHU by the NES A Award Committee;** National Conference on Scientific Advancement for Sustainable Environment, Herbal Medicines and Impact on Health: An Earth day Celebration (SASE); **22-23 April, 2023;** jointly organized by Department of Dravyaguna, Faculty of Ayurveda, Institute of Medical Sciences, BHU, Varanasi and National Environmental Science Academy, New Delhi at K.N. Udupa Auditorium, Institute of Medical Sciences, BHU, Varanasi, Uttar Pradesh.

2. **Outstanding Paper award in 5th Regional Science & Technology Congress, 2022-23; 9-10th January 2023;** organized by Bankura University and Department of Science of Technology and Biotechnology, Government of West Bengal.

3. **Oration Award (“Sm. Subha Mukherjee Memorial Oration”)** at the XXXIInd Annual Conference of The Physiological Society of India (PHYSICON-2021) organized by Berhampore Girls’ College; **14-16th March, 2022.**

4. **Outstanding Paper award in 27th West Bengal State Science & Technology Congress, 2020; 29th February 2020;** organized by Department of Science of Technology, Government of West Bengal.

5. **Outstanding Paper award in 4th Regional Science & Technology Congress (Western Region), 2019; 9-10 December 2019;** organized by Department of Science of Technology, Government of West Bengal and Burdwan University, Burdwan.

6. **Outstanding Paper award in 1st Regional Science and Technology Congress-2016,** Bardhaman Division, West Bengal; organized by Department of Science of Technology, Government of West Bengal and Bankura Christian College, Bankura.

COMMUNITY WORK/SOCIAL ACTIVITY

1. **Organized Thalassemia camp, Psychological camp and health check camp for college students of Bankura, Students Observance week (2-7)th January 2023.**

2. **Member of Bankura district book fair (28th December 2022 to 3rd January 2023) committee 2022.**

3. **Delivered Popular lecture and organizing committee member on AIDS awareness programme** organized by Red Ribbon Club on 2/04/2022 at 11am, Bankura Christian College NSS units

4. **Preparation of People Biodiversity Registrar (PBR) for Bankura Municipality 2019-2020.**

5. **Health check-up-camp** in collaboration with NSS, dated 29th September 2012 at Shyamdasnagar, Bankura.

6. **Resource person** in the N.S.S Special Health Check-up Camp dated on 19.12.2014 at Junbedia Gram Panchayat, Bankura in collaboration with N.SS Unit-I and Unit-II, Bankura Christian College.

MEMBER OF ACADEMIC / PROFESSIONAL ASSOCIATION

- National: Life Member of Physiological Society of India (PSI)
- Life member of National Environmental Science Academy (NESA)[**L/M No. 2534**]

ANY OTHER

INVITED LECTURES / RESOURCE PERSON: (Conferences/Seminars/Symposia/Workshops)

NATIONAL

- **Resource Person & Speaker** for National level Seminar on “National Nutrition Month-2023” on 26th September **2023** at 10:30A.M. Paramedical College, Durgapur.

- **Resource Person** in “HIV/AIDS awareness programe”, organized by Red Ribbon Club on 8th September **2023** at 03:00 P.M. NSS units, Bankura Christian College.

- **Resource Person to deliver a Lecture on "Oral Presentation by Young Scientist Session"** 4th Annual National Conference "MCCCON-2023" on "Food Informatics: Opportunities and Challenges" on and from 4th- 6th February, 2023 at Midnapore City College.

- **Resource Person & Speaker** for workshop on “Conservation of Flora, Fauna, Nature scape & Human scape of Bankura Municipality” on 23rd September **2022** at 10:30A.M. Bankura Christian College, Bankura.

- **Resource Person & Speaker** for National level seminar on “National Nutrition Month-2022” on 3rd September**2022** at 10:30A.M. Paramedical College, Durgapur.

- **Resource Person & Organizing committee member** in “HIV/AIDS awareness programe”, organized by Red Ribbon Club on 2nd April **2022** at 11:00A.M. Bankura Christian College NSS units.

- **Resource Person & Co-Chairman of Poster Session** in JU IAPST National Seminar, 2016 on “Drug and Diseases: Role of Pharmacists and Doctors” on **16th January, 2016** at Dr. H. L.

Roy Building, Jadavpur University, Kolkata-700 032.

- **Invited lectures-** dated 8th March 2018, **QIP short- term Refresher Course**, at Seminar Room of the Department of Pharmaceutical Technology, Jadavpur University; from **23rd February 2018- 9th March 2018** on “Bio-Technology and Pharmaceutical Technology and their Correlation to Drug Discovery and Drug Targeting”.
- **Invited lectures-** dated 22nd March 2018, **Two week Long short- term Refresher Course**, on “Recent trends in Pharmaceutical Research of Drug Development” at QIP Nodal Cell (Pharmacy), Department of Pharmaceutical Technology, Jadavpur University; from **13rd February 2018 to 26th March 2018** under the auspices of AITCE.
- **Resource Person** in the seminar on "**Environmental Change: Adaptation Challenges by Sustainable Development**" from **13th to 14th July, 2018**; at Midnapore City College, Kuturiya, Bhadutala. Paschim Medinipur-721 129, West Bengal. India.

INTERNATIONAL

- **Chair a digital poster evaluation session a one-day International Seminar on "Emerging fields of research in biotechnology and biomedicine"** at Dr. H.L Roy Auditorium, Jadavpur University Campus, Raja S.C. Mullick Road, Kolkata 32, on November 16, 2022.
 - **Resource Person & Chair a poster session at the up-coming 3rd Pharm. Tech IAPST International Conference 2019 (www.iapst.com)** on “Molecular Mechanism of Diseases And Novel Therapeutic Approaches” on **19th and 20th January 2019** at the Centurion University, Bhubaneswar-752050, India.
 - **Resource Person & Chairperson of Young Scientist Paper Presentation Session in the Annual Conference "MCCCON 2019"** on "Academia-Industry Meets on Opportunity' and Challenges on Foodomics in Functional Food Preparation Based Industrial Process" on **5th-6th February, 2019** at Midnapore City College, Kuturiya, Bhadutala. Paschim Medinipur-721 129, West Bengal. India.
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Other Academic/Administrative Assignments:

1. Internal Member of Undergraduate Board of Studies of Bankura University in Physiology from 21/09/2023 to till date.
 2. Member of Institutional Ethics Committee of Bankura Sammilani Medical College and Hospital, Bankura; from 24th December 2022 to till date.
 3. Joint Convener of the Admission Committee of Teachers' Council, Bankura Christian College since 2015 onwards.
 4. Convener of COVID-19 awareness committee.
 5. Member of IQAC, Bankura Christian College, Bankura.
 6. Member of Service book Committee, Bankura Christian College, Bankura.
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