

FACULTY MEMBERS' ACADEMIC PROFILE



1. **Name of the Faculty member:** Dr KRISHNENDU SARKAR
2. **Designation:** Assistant Professor in Physiology (W.B.E.S.)
3. **Qualification:** M.Sc (University of Calcutta), Ph.D (University of Calcutta)
4. **Specialization:** Ergonomics and Work Physiology
5. **E-mail address:** krishnendu4776@gmail.com
6. **Date of Joining in W.B.E.S.:** 23/12/2019
7. **Date of Joining in this College:** 23/12/2019
8. **Total Teaching experience in College level:** 3+ years
9. **Research interests:** Ergonomic intervention, working with informal sector workers, workspace ergonomics, Cognitive ergonomics
10. **Title of thesis (Ph.D.) with year:** “Ergonomics Study on Occupational Health Problems of Porters of Central Market Area in Calcutta and Probable Intervention Strategies for the Improvement of Productivity” (2017)
11. **Research guidance:** NIL
12. **Research Projects (Completed and ongoing):** NIL
13. **List of publications:**

A) Published papers in Journals:

Sarkar K, Mukherjee M B. *Human Milk Oligosaccharides: the secret weapon for neonates and infants*. European Journal of Pharmaceutical and Medical Research. **2022**, 9 (9), 117-123. ISSN Number 2394-3211

Gangopadhyay S, **Sarkar K**, Chongdar S. *Rolling mills of West Bengal, India: Present scenario and scope for improvement*. Ergonomics SA, **2017**, 29 (2) , 14-26. ISSN Number : 1010-2728 doi:10.4314/esa.v29i2.3

Gangopadhyay S, Das S, Sarkar I, **Sarkar K**. *Psychosocial factors in the development of musculoskeletal disorders among manual material handling workers of organised and unorganised sectors of West Bengal*. Journal of Human Ergology, **2017**, 46 (1) ISSN 1884-3964

Sarkar K, Dev S, Das T, Chakrabarty S, Gangopadhyay S. *Examination of postures and frequency of musculoskeletal disorders among manual workers in Calcutta, India*. International Journal of Occupational and Environmental Health. **2016**. 22 (2); 151-158doi: 10.1080/10773525.2016.1189682 ISSN -2049-3967

Sarkar K, Dev S, Das T, Gangopadhyay S. *Prevalence of Musculoskeletal Disorder among the Manual Material Handling Workers of Central Market Area Kolkata, India*. International Journal of Current Research and Academic Review. **2016**. 4(3): 16-24doi: 10.20546/ijcrar.2016.403.002

Chakrabarty S, **Sarkar K**, Dev S, Das T, Mitra K, Sahu S, Gangopadhyay S. *Impact of rest breaks on musculoskeletal discomfort of Chikan embroiderers of West Bengal, India- a follow up field study.*Journal of Occupational Health. **2016**. 58; 365-372 doi: 10.1539/joh.14-0209-OA

Gangopadhyay S, Chakrabarty S, **Sarkar K**, Dev S, Das T, Banerjee S. *An Ergonomics Study on the evaluation of Carpal Tunnel Syndrome among Chikan Embroidery Workers of West Bengal, India.* International Journal of Occupational and Environmental Health, **2015**. 21 (3); 199-206doi: 10.1179/2049396714Y.0000000065 ISSN 2049-3967

Durlav S, Chakrabarty S, Chatterjee A, Das T, Dev S, Gangopadhyay S, Haldar P, Maity SG, **Sarkar K**, Sahu S. *Prevalence of low back pain among handloom weavers in West Bengal, India.* International Journal of Occupational and Environmental Health. **2014**. 20 (4); 333-339.Doi: 10.1179/2049396714Y.0000000082 ISSN 2049-3967

Gangopadhyay S, Chakrabarty S, **Sarkar K**, Dev S, Das T. *Evaluation of Low Back Pain among Chikan Embroidery Workers of West Bengal.* Journal of Industrial Engineering and Management Innovation. **2014**. 1 (1); 2-12.Doi: 10.2991/jiemi.2014.1.1.1 ISSN 2013-0953

Dev S, Sarkar K, Chakrabarty S, Das T, Gangopadhyay S. *Prevalence of Work related Musculoskeletal Disorders (MSD) in Distal Upper Extremity (DUE) among the Workers of a Fan Manufacturing Unit of West Bengal.* Indian Journal of Physiology and Allied Sciences. **2013**. 67 (3);126-135 ISSN 0367-8350

Gangopadhyay S, Das T, Dev S, ChakrabartyS,**Sarkar K**. *Ergonomics in potters' hand.* Indoceram of AIPMA, **2012**. 1 (2); pp 35-37

Mandal BB, **Sarkar K**, Manwar V. *A study of vibration exposure and work practices of Loader and Dozer operators in opencast mines.* International Journal of Occupational Safety and Health. **2012**. 2(2); pp 3-7Doi:10.3126/ijosh.v2i2.6144 ISSN 2091-0878

B) Conference Proceedings:

Sarkar K, Das, T, Dev S and Gangopadhyay S. *Effect of psychosocial factors on the development of low back pain among the porters of central market area of Kolkata* in “User centered Design & Occupational Well-being.” Proceedings of International Ergonomics Conference, HWWE **2014**. ISBN 9789339219703; Section-C: ‘Physiological considerations for environmental and occupational health’. Edited by DebkumarCakrabarti, Published by McGraw Hill Education (India) Private Limited, New Delhi, pp 592- 595.

Mandal BB, **Sarkar K**, Chatterjee D. *Classification of Mining Equipment Used in India According to their Vibration Hazard Potential*in Proceedings of the 34th International Conference of Safety in Mines Research Institutes, 7-10 December,**2011**. ByAshisBhattacharjee,BiswajitSamanta and Aditya Kumar Patra published by Macmillan Publishers India. pp 723-730 ISBN 9789350590423

Sarkar K, Das T, Dev S, Gangopadhyay S. *Effects of low back pain and neck pain on the health status of the porter of central market area of Kolkata.* Chapter : Posture and Musculoskeletal Disorder in Ergonomics for Rural Development (ISBN 9789351749059) Edited by Prof. Praksh C. Dhara, Published by Department of Human Physiology with Community Health, Vidyasagar University, 2015, pp 421-426

Sarkar K, Das, T, Dev S and Gangopadhyay S.*Prevalence of musculoskeletal disorders among the manual material handling workers – a pilot study* in Humanizing Work and Work Environment Ergo safety for all (ISBN 9789351302704) Edited by Dr. DeepaVinay, Published by Daya Publishing House,India, **2014**, pp 244-249

14. Membership of Learned Societies/ Editorial Boards, etc.:

1. Indian Science Congress Association – Life Member
2. The Physiological Society of India – Life Member

15. Patents: NIL

16. Awards:

1. Joint CSIR UGC NET for Lecturership, **2014**
2. VIII Organising Committee (1996), PSI, Vidyasagar University, Midnapore Medal Award for best paper presentation among the young scientists at FIPSPHYSICON, **2015**
3. Young Scientist Award of The Physiological Society of India: Prof. Sacchidananda Banerjee Memorial Research Prize, **2016**
4. Design Registration of a “Passbook Printing Kiosk” [Design No. – 325557-001, Date –04/01/2020],**2020**

17. Other notable activities:

18. A) Participation in Seminars/Symposia/Conferences/Workshops:

1. Invited Talk in Two-Day National Conference on Sustainable Health Science for Future Generations, April 28-29, **2022** organized by Department of Physiology, Kalyani University, Kalyani, Nadia-741235, West Bengal, India in collaboration with Indian Science Congress Association (ISCA), Kolkata Chapter.
2. FIPSPHYSICON, University of Calcutta, **2015**
3. 22nd West Bengal State Science & Technology Congress, University of North Bengal, **2015**
4. 102nd Indian Science Congress, University of Mumbai, **2015**
5. International Ergonomics Conference, HWWE, IIT Guwahati, **2014**
6. 101st Indian Science Congress, University of Jammu, **2014**
7. International Ergonomics Conference, HWWE, Vidyasagar University, **2013**
8. 100th Indian Science Congress, University of Calcutta, **2013**
9. International Conference on Ergonomics and Human Factors, HWWE, GB Pant University of Agriculture & Technology, Pantnagar, **2012**
10. International Workshop on Current Trends in Researches on Biomedical Sciences for the South Asian Association of Physiologists (SAAP) young scientists, Kolkata, **2012**
11. 34th International Conference of Safety in Mines Research Institutes, New Delhi, **2011**
12. International Conference on Molecules to Systems Physiology: 100 years journey, University of Calcutta, **2011**
13. International Conference on Integrative Physiology: Modern Perspective & Platinum Jubilee Celebration of the Physiological Society of India, University of Calcutta, **2009**

B) Participation in OP/RC:

1. **2021 March – OP at HRDC, University of Hyderabad (online)**
2. **2022 July – RC at HRDC, Aligarh Muslim University (online)**