

# Faculty Profile

1. Name: Dr. Amit Karmakar

2. Date of Birth: 07/01/1985

3. Designation: Assistant Professor

4. Date of Joining: 01/08/2019

5. Name of the Department: Physiology

6. Address

- Permanent Address: Barabazar, Midnapore. P.O: Midnapore. Dist: Paschim Medinipur. West Bengal. Pin:721101.
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7. Educational Qualifications (Graduation onwards):

Examination	Name of the University/Institution	Year of Passing	Subject
B.Sc.	Vidyasagar University	2005	Physiology (H), Chemistry (Gen), Zoology (Gen)
M.Sc.	Vidyasagar University	2007	Human Physiology

8. Research Degree(s):

Degree	Name of the Degree Awarding Institution	Date of Award	Title
Ph.D.	Vidyasagar University	29/08/2018	"Detection and Molecular Characterization of Certain Virulence Factors and Quorum Sensing Regulator of Clinical Isolates of <i>S. aureus</i> "

9. Teaching Experience (in Years): 12

10. Specialization/Expertise/Teaching Area: Microbiology and Immunology, Biophysics.

11. Courses Taught: B.Sc. (Hons) and general.

12. Present Research Activities, if any: Virulence and drug resistance mechanisms of *Staphylococcus aureus* in molecular approach.

13. Major/Minor Research Project(s) Undertaken/Completed (during last 5 years):  
Nil

## 14. Publications and Others:

### A] Books Published:

#### 1. Nil

### B] Research Papers in International/National Journals:

1. K. Dutta, **A. Karmakar**, D. Jana, S. Ballav, S. Shityakov, A. K. Panda, C. Ghosh, Benzyl isocyanate isolated from the leaves of *Psidium guajava* inhibits *S. aureus* biofilm formation. *Biofouling* 36(8), 2020, 1000-1017. <http://doi: 10.1080/08927014.2020.1842877>.
2. P. Dua, **A. Karmakar** and C. Ghosh, Virulence gene profiles, biofilm formation, and antimicrobial resistance of *Vibrio cholera* non-O1/non-O139 bacteria isolated from West Bengal, India, *Heliyon*, 2018, 4 e01040. doi: 10.1016/j.heliyon. 2018, e01040.
3. S. Biswas, P. Mukherjee, T. Manna, K. Dutta, K. C. Guchhait, **A. Karmakar**, M. Karmakar, P. Dua, A. K. Panda, and C. Ghosh, Quorum Sensing Autoinducer(s) and Flagellum Independently Mediate EPS Signaling in *Vibrio cholerae* Through LuxO-independent Mechanism, *Microb Ecol*, 2018, <https://doi.org/10.1007/s00248-018-1262-5>.
4. **A. Karmakar**, D. Jana, K. Dutta, P. Dua, and C. Ghosh, Prevalence of Pantone-Valentine Leukocidin Gene among Community Acquired *S. aureus*: A Real-Time PCR Study, *Journal of Pathogens*, vol. 2018, Article ID 4518541, 8 pages, <https://doi.org/10.1155/2018/4518541>.
5. P. Dua, **A. Karmakar**, K. Dutta and C. Ghosh. A simple procedure for isolation, identification and characterization of *Vibrio cholera* from clinical samples. *International Journal of Pharma and Bioscience*, 8(4), 2017, 57-64.
6. **A. Karmakar**, P. Dua, and C. Ghosh, Biochemical and Molecular Analysis of *S. aureus* Clinical Isolates from Hospitalized Patients, Hindawi Publishing Corporation *Canadian Journal of Infectious Diseases and Medical Microbiology* Volume 2016, Article ID 9041636, <http://dx.doi.org/10.1155/2016/9041636>.
7. S. Biswas, **A. Karmakar**, C. Ghosh. Multidrug Resistant Pathogenic *S. aureus* in the Pimples. *Medical Science*, 16(66), 2015, 41-50.
8. P. Mukherjee, **A. Karmakar**, S. Biswas, S. De, S. De, C. Ghosh, Analysis of Virulence Potentials of Community Acquired *S. aureus*, Isolated from a Slum Population of West Bengal, India. *IOSR Journal of Pharmacy*, 2(5), 2012, 05-12.
9. P. Dua, S. K. Misra, **A. Karmakar**, K. Dutta, C. Ghosh, Coronary artery disease (CAD) Risk Factors and Cardio-Respiratory Fitness In Pre and Post-Menopausal Women, *J.Bio.Innov*, 5(2), 2016, 245-261.

### C] Conference Papers:

#### a) International Conference:

1. **A. Karmakar**, P. Dua, and C. Ghosh. "Screening for Staphylokinase Production by *S. aureus* Clinical isolates" Paper presented in two-day international conference on Contemporary innovations issues and future challenges in Physiology and allied sciences (ICCIIFCPAS-2020) held at Vidyasagar University, Midnapore, during 21st -22nd January, 2020.
2. **A. Karmakar**, D. Jana, S. Senapati, P. Dua, K. Dutta, P. P. Das and C. Ghosh. A Comparative Study of Prevalence of *pvl* gene between Community Acquired and Hospital Acquired *S. aureus*. Paper presented and abstract published in 104th Indian Science Congress (Section of Medical sciences including Physiology) held at Tirupati University, Tirupati during 3-7 January, 2017.
3. **A. Karmakar**, P. Dua and C. Ghosh. "Virulence Potential of Clinical Strains of Methicillin Resistant *S. aureus* (MRSA)- A Study on Murine Intravenous Sepsis Model". Paper presented and abstract published in 103th Indian Science Congress (Section of Medical sciences including Physiology) held at Mysore University, Mysore during 3-7th Jan, 2016.
4. **A. Karmakar**, P. Dua and C. Ghosh. Prevalence of *mecA* genes among multi-drug resistant *S. aureus* isolates from Midnapore Medical College and Hospital, West Bengal, India. Paper presented and abstract published in 102th Indian Science Congress (Section of Medical sciences including Physiology) held at University of Mumbai, Mumbai during 3-7th Jan, 2015.
5. **A. Karmakar**, P. Dua and C. Ghosh. Identification and Detection of biofilm formation ability among the orthopaedic wound isolates of *S. aureus*. Paper presented and abstract published in 101th Indian Science

Congress (Section of Medical sciences including Physiology) held at University of Jammu, Jammu during 3-7th Jan, 2014.

6. **A. Karmakar**, P. Dua and C. Ghosh. Prevalence of genes encoding extracellular virulence factors among *S. aureus* isolates from the Midnapore Medical College and Hospital, West Bengal, India. Paper Presented and abstract published in International Seminar On “Recent Advances In Clinical Research With Special Emphasis On Ba/Ba Study” held in Jadavpur University, Kolkata during 11-15th Sep, 2014.

7. **A. Karmakar**, K. Dutta, P. Mukherjee and C. Ghosh. *S. aureus* Isolates from Postoperative Wounds of Orthopedic Patients. Paper presented and abstract published in 100th Indian Science Congress (Section of Medical sciences including Physiology) held at University of Calcutta, Kolkata during 3-7th Jan, 2013.

8. **A. Karmakar**, P. Dua, K. Dutta and C. Ghosh. Biofilm formation by Community Associated *S. aureus*. International Conference on Ergonomics and Human Factors held at Vidyasagar University, Midnapore during 4-6th Dec, 2013.

9. P. Mukherjee, **A. Karmakar**, S. Biswas, S. Bhunia, C Ghosh. Molecular analysis of virulence factors of community associated *S. aureus* isolated from children with scalded skin syndrome. Paper presented and abstract published in International Conference on Frontiers in Biological Researches, February 26-27, 2012.

#### **b) National Conference**

1. **A. Karmakar**, P. Dua, and C. Ghosh. “Revealing of Biofilm formation By the Orthopedic Wound isolates of *S. aureus*”. Paper presented in national level seminar on Sustainable Development: Its impact on Marginalised held at Tamralipta Mahavidyalaya, Tamluk, during 27th January, 2020.

2. **A. Karmakar**, P. Dua, and C. Ghosh. “Prevalence of NorA and NorB mediated multidrug- resistant efflux pump system in clinical isolates of *S. aureus*”. Paper presented in XXXIth annual conference of the Physiological Society of India (PHYSIOCON-2019) held at Bankura Christian College, Bankura, during 15-17th November, 2019.

3. **A. Karmakar**, P. Dua and C. Ghosh. Biochemical and molecular characteristics of *S. aureus* clinical isolates from hospitalized patients. Paper Presented (Poster) and abstract published in UGC Sponsored national Seminar on “Trends of Physiological researches from Laboratory to Community”, Department of Human Physiology with Community Health, Vidyasagar University, West Bengal. March 30-31, 2016.

4. K. Dutta, **A. Karmakar**, and C. Ghosh. Effects of different leaf extract on Methicillin resistant *S. aureus* (MRSA) clinical isolates. Paper Presented (Poster) and Abstract Published in National Symposium on “Bioresource Management”, Faculty of Science, Vidyasagar University, West Bengal. 26-27th April, 2016.

5. **A. Karmakar**, D. Jana, S. Senapati, P. Dua, K. Dutta, P. P. Das and C. Ghosh. “Prevalence of pvl gene in community acquired methicillin resistance *S. aureus* (CA-MRSA)”. Paper presented in annual conference of the Physiological Society of India on XXVIIIth PHYSICON-2016, held at Midnapore College (Autonomous), Midnapore, during 16-18th November, 2016.

#### **D] Conference / Symposium Attended (during last 5 years)**

##### **• International Level**

Name of The Conference	Organizer, Date, Venue	Financially Supported by
“Modern Trends in Biological Sciences”	P.G. Department of Zoology, Raja Narendralal Khan Women’s College, 24.09.2009.	

##### **• National Level**

Name of The Conference	Organizer, Date, Venue	Financially Supported by
“Dalit Rajniti O Manab Adhikar”	Equal Opportunity Centre (UGC Approved), 28.01.2015, Midnapore College (Autonomous)	UGC
“National Science Day- 2015”	Vidyasagar University, 08.10.2015, Vidyasagar University, Midnapore	West Bengal State Council of

		Science & Technology
One Day Seminar on "Environmental Awareness"	Internal Quality Assurance Cell (IQAC), Midnapore College, 30.09.2015	IQAC
"Women in Science & development of transgenics against plant viruses, flow cytometry and statistical software".	Dept. of Zoology, Physiology, Botany and Mathematics, Raja Narendralal Khan Women's College, 04.08.2015, Raja Narendralal Khan Women's College, Midnapore.	D.B.T
National Seminar on "Research Methodology in Higher Education"	Vidyasagar University Research Scholars' Association (VURSA), Vidyasagar University, 19.03.2013, Vidyasagar University, Midnapore.	
National Seminar on "Insights in Cardiac Problems and its Management"	Dept. of Physiology & Nutrition, Ramananda College, 11.02.2009, Ramananda College, Bishnupur.	
Two-day NAAC sponsored National Seminar on "Role of IQAC on Quality Enhancement & Quality Sustenance in Higher Education"	Midnapore College, 07.03.2009-08.03.2009, Midnapore College, Midnapore.	NAAC
XVI Annual Conference of The Physiological Society of India	Dept. of Physiology, Raja Narendralal Khan Women's College, 16.12.2004 Midnapore.	UGC& DRDO

**E] Invited Lectures Delivered in Seminars/Webinars: (Title, Name of Seminar, Organizer Date and Venue):**

1. "Prevalence of NorA and NorB mediated multidrug- resistant efflux pump system in clinical isolates of S. aureus". Paper presented in XXXIth annual conference of the Physiological Society of India (PHYSIOCON-2019) held at Bankura Christian College, Bankura, during 15-17th November, 2019.

**F] Orientation Programme/Refresher Course/Short Term Course Completed:**

1. University Grand Commission Human Resources Development Centre- University of Calcutta (UGC-HRDC-CU) Faculty Induction Programme-04, Conducted by Calcutta University 03-30 March, 2021.  
2. University Grand Commission Human Resources Development Centre- University of Calcutta (UGC-HRDC-CU) Refresher Course in Research Methodology in Science and Technology. From 07<sup>th</sup> February to 22<sup>nd</sup> February 2022.

**G] Articles Published in Magazines:**

1. Nil

**15. Awards and Recognitions, if any:**

Nil

**16. Membership of Reputed Bodies/Organizations including Professional Associations:**

Life member of Indian Science Congress Association. Membership No. L23372.

**17. Significant Information, if any:**

Qualified State Eligibility Test (SET) Dec, 2018 for the post of Assistant Professor in West Bengal, Conducted by West Bengal College Service Commission (WBCSC).