ADITI MUNMUN SENGUPTA

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**Education**

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| CCCS (Certificate Course in Cardiovascular Diseases and Stroke) 2020-2021 | Public Health Foundation of India , endorsed by Royal College of Physicians, London.  Score 45/50 ( State Rank 1st) |

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| Masters In Chemistry 2005-2007 | Eastern Michigan University,Ypsilanti, MI-48197  GPA-3.39/4.00 |
| Advanced Diploma in Psychological Counselling(ADPC) | Institute of Health Care Administration, Chennai-600061, India  Percentage-67%, ranked first in class |
| Diploma in Cardiology and Electrocardigraphic technique(DECT) | Institute of Medical and Technological research, Kolkata-700012, India  Percentage-83%, ranked first in class with honors |
| Bachelor of Medicine and Surgery | Calcutta National Medical College and Hospital, Kolkata-700014  Percentage-67% , within top 10% of the state. |

**Work History**

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| Medical Officer in Critical Care Unit 2015-present | The Calcutta Medical Research Institute, (CMRI), Kolkata-700027 |
| Guest Lecturer  2007-2009 | Eastern Michigan University,  Dept. of Chemistry |

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| Graduate Assistant 2005-2007 | Eastern Michigan University, Ypsilanti, MI-48197  Duties: Teaching and Research |
| Coursework in ADME (Absorpion,Distribution, Metabolism andExcretion)of Drugs- Summer, 2003  Summer Internship May 2004-August 2004 | School of Pharmacy, Univ., of Georgia Athens, Georgia.  Abeome Corporation, Research  lab , Athens, Georgia- 30605 Duties- Research in Immunology |
| Residency in Dept. of Ophthalmology 2001-2003  (ranked first in the Central Government Job for Eastern Railways) | B.R. Singh Hospital and Research Institute, Kolkata- 700032, India  Duties – Attending patients in the Inpatient & Outpatient Departments  Attended lecture series : All India Ophthalmological Conference, sponsored by Arvind Eye Hospital, India,2002 |
| Residency in Dept. of Gastroenterology 2000-2001 | Peerless Hospital and BK Roy Research Institute, Kolkata- 700094  Duties- Attending patients in the Inpatient and Outpatient Departments and also attending to Emergency cases  Attended lecture series : All India Gastrointestinal Conference, Calcutta, 2001 |
| (a )Residency in the Dept. of Plastic Surgery-1999-2000  (b) Residency in the Dept. of General surgery 1998-1999 | Calcutta National Medical College and Hospital, Kolkata- 700014, India  Duties- Attending patients in the Outpatient and Inpatient clinics along with assistance in  Emergency cases |

**Notable Awards**

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| Research Excellence Award from InSc(Institute of Scholars, registered under Ministry of MSME, Govt.of India) | 2021 |

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| West Bengal Science and Technology Congress Regional Meet, Section – Zoology.Merit award in Research Presentation. | 2018 |
| Certificate of Recognition, Bruce K. Nelson Faculty Development Center, Eastern Michigan University, Ypsilanti, MI | 2009-2010 |
| Professional Acknowledgement for Continuing Education , American Society for Clinical Laboratory Science | 2008 |

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| American Society for Biochemistry Travel Fellow Award | April-May 2007 |
| American Chemical Society Graduate  Student Award- Huron Valley Section- |  |
| Outstanding Accomplishment in Chemistry | 2006 |
| Graduate Research Support Fund Award, Eastern MI University | 2005-2006 |
| Graduate Travel Fund Award, Eastern MI  University | 2005-2006 |
| Graduate Assistantship Award, Eastern Michigan University, Dept. of Chemistry | 2005-2007 |
| Medical Scholarship laureate- chosen by  the Dean’s list of the American College Association | 2006 |
| Women’s history month poster award,  Eastern MI University | 2007 |
| Women of Excellence for service to the University Community, Eastern MI University | 2006 |
| Certificate of Appreciation from the  American Red Cross | 2005-2006 |
| Honors in Cardiology | 2001 |
| Medical School Scholarships | 1993-1998 |

**Other Awards**

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| Certificate as a presenter demonstrating outstanding scholarship | 2007. |
| Outstanding Scholarship as a presenter-  Graduate studies & Research-Eastern Michigan University | 2006 |
| Recognition Certificate for teaching efforts and pursuit of academic excellence at Eastern Michigan University, Sponsored by the Bruce K. Nelson Faculty Dev. Cen | 2006 |
| Top College Student Award, sponsoror- Dean’s List of the American College  Association | 2005-2006 |

**Publications In India**

**2 recent publications.**

**2 journal article in press.**

**3 journal articles in process**

Experimental Work:

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| Public Health | Emeli Paul Choudhury1, Aditi Munmun Sengupta2, Bidisa Sarkar3, Dharmendra Singh4, Kamalesh Sarkar1\*  Intra-familial transmission pattern of COVID-19 infection among the rural residents in Ahmedabad, Gujrat during an epidemic of SARS-CoV2 in India  Japanese Journal of Infectious Diseases, Published online on November 30, 2021. DOI:10.7883/yoken.JJID.2021.267 |

Review Papers

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| --- | --- |
| Physiology and Medicine | Sengupta Aditi Munmun;Chatterjee Diptendu;Ghosh Rima;Nakhro Khriesivonuo;Chakravarti Ipsita;Bhattacharya Salil.The Role of nutrients in severe acute respiratory syndrome corona virus 2 infection.Asian Journal of Medical Sciences, May 2022, Vol 13: Issue 5(in press). |

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| Physiology and Medicine | *Systematic Review(UGC approved Journal)*  Aditi Munmun Sengupta, Diptendu Chatterjee, Bibhuti Saha.  A cycle threshold value based epidemic prognostication to monitor long term epidemiologic trends of SARS-CoV-2 virus.Global Journal for Research  Analysis, December, 2021(in press). |

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| Physiology and Medicine | Aditi Munmun Sengupta. EFFECTIVENESS OF RISK MANAGEMENT STRATEGIES FOR PROTECTING FRONT-LINE WORKERS FROM THE DEVASTATING IMPACT OF COVID- 19 PANDEMIC WITH MAJOR FOCUS ON THEIR MENTAL HEALTH  CONDITIONS.Indian Journal of Applied Basic Medical Sciences, volume:23B, pg 174-178, July 2021 |
| Physiology and Medicine | (*Invited Peer Review Paper*)  Sengupta Aditi Munmun; Chatterjee Diptendu;Bhattacharya Salil Kumar, Ghosh Rima.An overview of the immune dysregulation in COVID-19 with immunization priority in the Indian context.Global Journal of Medical Research:K. 2020. Volume 20: Issue 4,  25-33. |
| Physiology and Medicine | Sengupta Aditi Munmun; Chatterjee Diptendu;Bhattacharya Salil Kumar;Ghosdh Rima. Role of epigenetics in etiology and prevention of human diseases: A review based on current evidences.Asian Journal of Research in Biological and Pharmaceutical Sciences.2020.8(3): 85-100 |
| Physiology and Medicine | Sengupta Aditi Munmun;Chatterjee Diptendu;Ghosh Rima. Role of probiotics |

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|  | in respiratory tract diseases with special reference to COVID-19: A review.Asian Journal of Medical Sciences, Jul-Aug 2020, Vol 11: Issue 4. |
| Cardiology | Aditi Munmun Sengupta, Diptendu Chatterjee & Rima Ghosh. A Study on Obesity and Cardiovascular Risk Assessment among the Bengali Hindu Caste Population and Tribal Population of Birbhum District, West Bengal, India.  Global Journal of Medical Research: F Diseases Volume 21 Issue 1 Version 1.0  Year 2021 |

# In United States

Experimental work:

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| --- | --- |
| Biotechnology | Zhang, Qing; Lao,Xuejun; Huang,Jianhua; Zhu, Zhongsang; Pang, Lei; Tang, Yong; Song, Qifang; Huang, Jiangfang; Deng, Jie; Deng, Ning; Yang, Qin; Sengupta, Aditi M; Xiong, Likuan. Soluble production and function of vascular endothelial growth factor/basic fibroblast growth factor complex peptide.Biotechnology Progress, Volume 30, Issue5.2014 |

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| *Biochemistry*: | Aditi M. Sengupta, Steven J. Pernecky,Hemendra N. Basu; A Novel Analytical Method of Identification and Characterization of Fatty acid Methyl Esters by GC-MS- Michigan Academician  vol 37, issue 4 published on August-2007 |
| *Biochemistry* | Sengupta, Aditi M.; Basu, Hemendra N.; Pernecky, Steven J. Characterization by GC-MS of prostanoid methyl esters produced in oxygenation reactions of Cyclooxygenase-1. Department of Chemistry, Eastern Michigan University,Ypsilanti, MI, USA. Abstracts  of Papers, 232nd ACS National Meeting, |

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|  | San Fransisco, CA, United States, Sept.10-14, 2006, Biol-095. Publisher: American Chemical Society, Washington,  D.C. |

***Thesis title***: Methyl Esterification Of Fatty Acids And Eicosanoids With A Novel Reagent Trimrethylsilyldiazomethane For Analysis By Gas chromatography- Mass Spectrometry

Review papers:

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| *Cardiology and Nutrition*: (*Peer Review Paper)* | Hemendra Basu, Steven Pernecky, Aditi Sengupta, GeorgeU. Liepa.; Coronary Heart Disease: How Do The Benefits Of Omega-3 fatty Acids Compare With Those Of Aspirin, Alcohol/ RedWine, And Statin drugs?;JAOCS, vol83; no12,  pg 985-997;(2006)-published |
| *Psychology* | Aditi Sengupta.;A brief report on  Attention Deficit Hyperkinetic Disorder-A New Therapeutic Approach(upublished) |
| *Women’s Health*  *(Invited Peer Review Paper)* | George U. Liepa.; Aditi Sengupta.; Danielle Karsies.; Polycystic Ovary Syndrome And Other Androgen Excess Related Conditions: Can Changes In Dietary Intake Make A Difference?;  Nutrition in Clinical Practice (2007) |

# Fellowships

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| Fellow of Medical Research Council of  United States (accredited by Open Association of Research Society, U.S.A (OARS). | 2020 |

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| Labanya Prabha Basu Memorial Fellowship in Medical Education & Research | 2008-2010 |
| Labanya Prabha Basu Memorial Fellowship in Medical Studies, Internal Medicine & Allied subspecialties | 2007-2008 |
| Travel Fellowship, Federation of American Societies for Experimental  Biology | 2007 |

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| Travel Fellowship, Department of Chemistry, Eastern Michigan University, Ypsilanti, MI | 2006 |

Professional affiliations:

1. Post Graduate Association of Harvard Medical School Continuing Medical Education
2. Indian Science Congress Association
3. Society of Biochemists, Kolkata Chapter
4. Association of Family Physicians of India, Kolkata Chapter
5. Royal Society of Biology