

(Self-Declared Document)

Name **RAKHI DEY SHARMA**

Designation **ASSISTANT PROFESSOR**

Name of the Department **PHYSIOLOGY**

Email ID rakhideysharma@beldacollege.ac.in; rakhidey70@gmail.com

Mobile No **9830299512**

Personal Website

Address **FD-273, Sector III, Salt Lake City;
Kolkata-700 106, West Bengal, INDIA**

Educational Qualification:

<u>Degree Name</u>	<u>Institute</u>	<u>Year of passing/awarded</u>
Matriculation	West Bengal Board of Secondary Education	1985
Higher Secondary	West Bengal Council of Higher Secondary Education	1987
Graduation	Vidyasagar University	1990
Post Graduation	University of Calcutta	1992
Ph.D.	Banaras Hindu University	1999

Career Profile/Teaching Experience

Assistant Professor, Department of Physiology, Belda College, Belda, 09.08.2019 to Present, Government of West Bengal.

Contractual Whole Time Teacher, Department of Food & Nutrition, Barrackpore Rastraguru Surendranath College, Barrackpore, 01.01.2011 to 08.08.2019, Government of West Bengal.

Assistant Professor (College Appointed), Department of Food & Nutrition, Barrackpore Rastraguru Surendranath College, Barrackpore, August, 2010 to Dec, 2010

Guest Lecturer, Department of Microbiology, APC College, New Barrackpore, Kolkata

CSIR SRA Position, National Institute of Cholera & Enteric Diseases, Kolkata, INDIA.

Scientist II, National Institute of Cholera & Enteric Diseases, Kolkata, INDIA.

Research Associate, 2003-2005, Saha Institute of Nuclear Physics, Kolkata, INDIA

Post doctoral fellow, 2000-2002, UCLA school of Medicine, Los Angeles, USA

Research Associate, 1998-2000, Indian Institute of Chemical Biology, Calcutta, INDIA

Specialization/Research Area

Molecular Virology- Bacteriophage and viruses like Polio Virus, Hepatitis C Virus, Influenza Virus and Adeno Virus

Phytochemicals: its role in health & Diseases

Public health & Community Nutrition

Course/ Subject Taught

Physiology: Human Physiological Systems

Biochemistry, Molecular Biology, Microbiology

Publications in Journal / Book / Book Chapter

Papers

<u>Title of the Paper</u>	<u>Journal Name with ISSN, Vol. etc.</u>	<u>Year of Publication</u>
An association study of severity of intellectual disability with peripheral biomarkers of disabled children in a rehabilitation home, Kolkata, India.	Scientific Reports, 9(1), ISSN # 2045-2322	2019
Ferulic acid enhances the radiation sensitivity of lung and liver carcinoma cells by collapsing redox homeostasis:mechanistic	Free Radical Research, 53 (9-10), ISSN #10715762	2019

involvement of Akt/p38 MAPK signalling pathway		
Alteration of murine duodenal morphology and redox signalling events by reactive oxygen species generated after whole body γ -irradiation and its prevention by ferulic acid	Free Radical Research, 51(11-12), ISSN #10715762	2017
Radiosensitizing effect of ellagic acid on growth of Hepatocellular carcinoma cells: an in vitro study	Scientific Reports, 7(1), ISSN # 2045-2322	2017
Smokeless tobacco induces toxicity and apoptosis in neuronal cells: a mechanistic evaluation	Free Radical Research, 54(7), ISSN #10715762	
Seabuckthron (Hippophae rhamnoides L.) leaf extract ameliorates the gamma radiation mediated DNA damage and hepatic alterations	Indian J Exp Biol. 2014 Oct;52(10):952-64. ISSN #0019-5189	2014
Protective effect of coconut water concentrate and its active component shikimic acid against hydroperoxide mediated oxidative stress through suppression of NF- κ B and activation of Nrf2 pathway,	Journal of Ethnopharmacology, 155(1) ISSN #0378-8741	2014
Circulation of a novel pattern of infections by enteric adenovirus serotype 41 among children below 5 years of age in Kolkata, India".	Journal of Clinical Microbiology 49 (2), 500-505 ISSN #0095-1137	2011

Molecular characterization and comparative analysis of pandemic H1N1/2009 strains with co-circulating seasonal H1N1/2009 strains from eastern India”	Archives of Virology 156 (2), 207- 217.	2011
Recent advancements for the evaluation of anti-viral activities of natural products”	New Biotechnology 25 (5), 347-368	2009
Heat stress upregulates chaperone heat shock protein 70 and antioxidant manganese superoxide dismutase through reactive oxygen species (ROS), p38MAPK, and Akt”	Cell Stress and Chaperones 14 (6), 579-589	2009
Involvement of Leishmania donovani major surface glycoprotein gp63 in promastigote multiplication”	Journal of Biosciences 29 (1), 15-22	2004
Cell cycle regulation of hepatitis C and encephalomyocarditis virus internal ribosome entry site-mediated translation in human embryonic kidney 293 cells	Virus Research 94 (2), 85-95	2003
The interaction of cytoplasmic RNA viruses with the nucleus	Virus research 95 (1-2), 75	2003
Identification of a Strong Promoter of Bacteriophage MB78 that Lacks Consensus Sequence Around Minus 35 Region and Interacts with Phage specific factor	Virus Genes 14 (2), 137-146	1997

Emergence of novel strain of <i>Vibrio cholerae</i> with epidemic potential in southern and eastern India	The Lancet, 341, 703-704	2003
Nuclear entry of poliovirus protease- polymerase precursor 3CD: implications for host cell transcription shut-off	Virology 320 (2), 195	2004
Expression of four genes of MB78 from contiguous open reading frames: the genomic organization as deduced by sequence analysis	Virus Genes 20 (1), 87-97	2000
Multiple Copies of the Upstream Regulatory Region of the Major Capsid Protein Gene of Bacteriophage MB78 Inhibit Phage Morphogenesis	Virus Genes 22 (2), 151-158.	2001
Book/Book Chapter		
Title of the Book	Publication Name with ISSN , Vol etc.	Year of Publication
A comparative study of antioxidant capacity of selected vegetables and fruit from West Bengal”, a full length research article for book chapter in Recent trends in research of Nutrition Science, , 170-176	ISBN number 978-81-921808-5-4 Published by Barrackpore Rastraguru Surendranath College, Barrackpore, Kolkata, India	2012
Book chapter of “Anticancer Activities of Fruits and Vegetables: A Scientific Review”	World Scientific Publishing Co., Inc. 2014.	2014
The phytochemicals as anti-		

inflammatory agent and cardiovascular medicine” E-book series of Bentham Science by Frontiers of Cardiovascular Diseases.

Conference /Seminar/Workshop Attended/Organised

Invited Lectures

1. The NS1 protein of Influenza A virus blocks nuclear dot formation through In Lung epithelial cells, National Conference PHYSICON-2019 on “Recent Trends in Physiology and Healthcare Research for Salubrious Society” Physiological Society of India (PSI) on 15-17 November, 2019.
2. Are women better protected in Covid-19 and other respiratory virus infection , One Day National Level Webinar on “Covid-19 Pandemic: Nature’s Teaching to the Mankind, Dept. of Zoology & Botany, Belda College, Belda on 27/06/2020.
3. “Nonenteric Adenoviruses Associated with Gastroenteritis in Hospitalized Children in Eastern India”, National Conference PHYSICON-2021 on “Women’s health in India: Issues and Concerns” & XXXIInd Annual Conference of PSI on 14-16th March, 2022
4. PHAGE THERAPY: A NEW APPROCH FOR GOOD HEALTH, National Conference, XXXIIIrd Annual Conference of The Physiological Society of India held on 3 to 5th March, 2023 at Vidyasagar University

Rakhi Dey Sharma