

Dr. Priyanka De

Department: Biotechnology

Designation: Assistant Professor

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Qualification:

M.Sc (Zoology, Specialization in Genetics), Calcutta University. CSIR-NET (Life Sciences) and SLET (West Bengal).

Ph.D: Indian Institute of Chemical Biology (CSIR), Kolkata (under the supervision of Dr Arun Bandyopadhyay, Cell Biology & Physiology Division, Indian Institute of Chemical Biology).

Teaching areas:

Physiology, Animal Biology, Metabolism, Genetics, Ecology, Evolution & Behavior.

Research Interest:

- Cardiology
- Neurobiology
- Ethology
- Environmental biology
- Trans-disciplinary Research

Book Publication:

- Book entitled 'The Ultimate Query', A translation work based on Sarat Chandra Chattopaddhya's Sesh Prasna (ISBN: 978-93-83548-89-7). January 2016.
- Book entitled 'Dodo Kothai Tui', a bengali story book for children (ISBN: 978-93-84184-41-4). December 2016.
- Motivational book entitled 'The Enigma of Human Existence: An Odyssey of Survival' (ISBN 978-81-940456-4-9). April 2019.
- Book entitled 'Bigyaaner Antoraale', a collection of scientific articles (ISBN: 978-93-84184-87-2). August 2021.
- Book entitled 'Enigma of life: An Odyssey of Poetry' (ISBN: 978-93-94035-83-6). January 2024.

Book chapters:

- De P. Translated Poem 'At the Bend of the path', published in the book 'Poetry World' (Volume IV), 2013, a collection of world poetry edited by Ashis Sanyal & Partha Raha,

- published on the eve of '7th World Poetry Festival 2013', convened by 'International Bengali Poetry Festival' 2013, held at Paschimbanga Bangla Academy, Kolkata, India.
- De P. Translated Poem 'Cognizance', published in the book 'Poetry World' (Volume V), 2014, a collection of world poetry edited by Ashis Sanyal & Partha Raha (page 200), published on the eve of '8th World Poetry Festival 2014', convened by 'International Bengali Poetry Festival' 2014, held at Paschimbanga Bangla Academy, Kolkata, India.
 - De P. Translated Poem 'Bonding', published in the book 'Poetry World' (Volume VI), 2015, a collection of world poetry edited by Ashis Sanyal & Partha Raha (page 199), published on the eve of '9th World Poetry Festival 2015', convened by 'International Bengali Poetry Festival' 2015, held at Paschimbanga Bangla Academy, Kolkata, India.
 - De P. "Diverse Facets of Physiological Ailments in the Light of Health Geography" as part of Book "Geography in the 21st Century: Emerging Issues and the Way Forward" [ISBN: 978-81-947715-9-3], published by Namya Press, India. 396-417; 2020.
 - De P. "Enigma of Indian Tradition of Healing: A Phytomedicinal Perspective" as part of Book "Handbook of Agriculture & Plant Sciences" [ISBN: 978-93-91002-25-1], published by ABS Books Publisher, India. 334-351; 2021.
 - De P. Poem entitled 'Protikhhya' as part of Book "Karonakaler Kobita" [ISBN: 9789354453618]. 57; 2021.
 - De P. "How Covid-19 Changed the Consumer Behaviour in India" [ISBN: 978-93-92978-00-5], published by MRI Publishers. 47-65; 2021. [Editorial Board Member for Book]
 - De P. "Post-Pandemic Health Communication: Significance and Emerging Prospects" as part of Book "Opportunities in Media Industry Post-COVID-19" (Vol 2) [ISBN: 978-93-91537-90-6], published by Clever Fox Publishing. 189-207; 2021.
 - De P. "Enigma of emotion-cognition interactions in the contemporary COVID-19 based educational arena" as part of Book 'COVID-19 & YEAR 2020 (Vol I)', [ISBN: 979-8885300049], published by Notion Press, India. 126-141; 1st edition. 2021.
 - De P. "Diverse facets of mental health disorders during COVID-19 pandemic" as part of Book 'COVID 19 pandemic: A comprehensive understanding' [USA ISBN: 9781005151577], published by International Publishing Centre, India. 2021.
 - De P. "Role of metacognitive platform in the changing COVID-based education system", as part of Book 'Society under seize: COVID 19 and consequences' [ISBN: 978-93-91897-22-2], published by Manak Publications Pvt. Ltd. New Delhi, India. 2022.
 - Sinha D, Maurya AK, Chatterjee S, De P, Chatterjee M, Malik JA. "Heavy Metal Perception in Plants", as part of Book 'Heavy Metals in Plants: Physiological to Molecular Approach' [ISBN 9780367627393], published by CRC Press, India. 2022.
 - De P. "Diverse impacts of air pollution on biodiversity: a different outlook", as part of Book 'Environment conservation, challenges threats in conservation of biodiversity Volume-II' [ISBN: 978-93-94766-04-4], published by Scieng Publication, India. 2022.

Paper Publications: Scientific Journals

- The Indian Genome Variation Database (IGVdb): a project review. The Indian Genome Variation Consortium. Human Genetics 2005, 118: 1-11. (Worked as a team member in this consortium).
- Altered Expression of the Genes in Hypertrophied Heart by Glucocorticoid. **De P**, Roy SG and Bandyopadhyay A. Perspectives in Cytology and Genetics 2007, 13: 152-157.
- Stimulation of salmon calcitonin on secretion of 17 β -estradiol by the ovarian follicles of common carp, *Cyprinus carpio*. Paul S, Mukherjee D, Pramanick K, Kundu S, Bhattacharyya SP, **De P** and Mukherjee D. Journal of Endocrinology 2008, 196 (2): 413-424.
- Noise Pollution-A testimony on heart disease. **De P**. Everything about environment 2008, May- June, 58-61.
- Excess of glucocorticoid induces cardiac dysfunction via activating Angiotensin II pathway. Roy SG, **De P**, Mukherjee D, Chander V, Konar A, Bandyopadhyay D and Bandyopadhyay A. Cellular Physiology and Biochemistry 2009, 24 (1-2): 1-10.
- Excess of glucocorticoid induces myocardial remodeling and alteration of calcium signaling in cardiomyocytes. **De P**, Roy SG, Kar D and Bandyopadhyay A. Journal of Endocrinology 2011, 209: 105-114.
- Enigma of Slumber. **De P**. Austin Journal of Biotechnology & Bioengineering, 2014, [ISSN 2378-3036], 1(5): 4.
- Diverse Facets of Lipid Metabolism in Cardiac Pathology. **De P**. Journal of Enzymology and Metabolism [ISSN: 2455-4774]; 2015;1(1): 105.
- Global warming and neuromarketing: An opinion-based neurocognitive analysis of associated lifestyle modifications. Sarangi N and **De P**. Journal of Environment and Sociobiology [ISSN: 0973-0834] UGC CARE GROUP-II; Web of Science, 2022. 19(2), 257-270.
- Structure–function relationship of α -crystallin in the context of vertebrate lens evolution and its role in eye disorders. Chakraborty A, **De P**, Saha S. Journal of Proteins and Proteomics [eISSN 2524-4663], 2023, 14, 25-41.
- An Insight into the Structural Analysis of α -crystallin of Habitat- specific – A Computational Approach. Chakraborty A, Ganguli S, **De P**, Saha S. Journal of Proteins and Proteomics [eISSN 2524-4663], 2023, 14, 111–127.
- An Insight on α -crystallin Interactions with Various Proteins in Systemic Disorders. Chakraborty A, Nandy S, Saha S, **De P**. Journal of Stress Physiology & Biochemistry [ISSN 1997-0838], 2023, 19(3), 35-46.
- Elucidating the mechanism of anti-apoptotic activity of α crystallin and its therapeutic potential. Chakraborty A, De P, & Saha S. Journal of Stress Physiology & Biochemistry [ISSN 1997-0838], 2025. 21(1), 182-189.

Inter-college magazine/Journals

- Articles published in CHIASMA (Departmental magazine of Biotechnology), The Xaverian, (College magazine), Pebbles (College magazine), Magis (College Journal).

Vernacular Journals

- Articles published in Sikhya Swastha Bigyan, Bigyan Mela, Rudrakaal, Araatrik, etc.

Paper presentation:

- International Symposium on 'Steroid Hormone Receptor Superfamily & Molecular Signalling'. Rajiv Gandhi Centre for Biotechnology, Trivandrum, Kerala, India. November 25–27, 2004. (Poster presentation)
- National Seminar on Frontiers in Zoology & National Symposium on Ocean as source of nutrients & drugs for 21st Century, organised by Department of Zoology, Goa University, Goa, India. February 22-24, 2006. (Poster presentation)
- International Conference on Frontier Researches in Integrative Physiology (ICFRIP), organised by Department of Physiology, University of Calcutta, Kolkata, India. January 8-10, 2007. (Poster presentation)
- International Symposium on Chemical Biology, organised by Indian Institute of Chemical Biology, Kolkata, India. March 7-9, 2007. (Poster presentation)
- 6th Asia Oceania society for Comparative Endocrinology, organised by North Bengal University, Darjeeling, India. December 10-14, 2007. (Poster presentation)
- XIIIth All India Congress of Cytology and Genetics & International Symposium on genomic and proteomic approaches to decipher the molecular basis of pathogenesis. Hyderabad, India. December 28-30, 2007 (Poster presentation)
- 23rd West Bengal State Science & Technology Congress 2016 (WBSSTC-2016) organized by Department of Science & Technology, Govt. of West Bengal. Held at Presidency University, 86/1, College St, College Square, Kolkata, West Bengal 700073. 28-29 February, 2016. (Paper presentation)
- One Day National Symposium on 'Nanotechnology: From Materials to Medicine and Their Social Impact', organised by Centre For Interdisciplinary Research and Education (CIRE), Kolkata. Held at the Birla Industrial and Technological Museum, Kolkata-19. March 25, 2017. (Poster presentation)
- 2 days UGC Sponsored International Seminar On 'Education, Emotion and Contemporary Global World', organised by Centre for Disability Studies and Rehabilitation, Jadavpur University, jointly organized by Byanjanbarna Foundation, Kolkata. 7th and 8th December, 2017. (Oral presentation)
- International Seminar on 'Frontiers in Biological science (FIBS)' organised by Department of Microbiology, St. Xavier's College (Autonomous), Kolkata, College (Autonomous), Kolkata. January 30, 2018. (Poster presentation)
- National Seminar on "Modern Trends in Microbiology" Chapter XV, organised by Department of Microbiology, St. Xavier's College (Autonomous), Kolkata, College (Autonomous), Kolkata. October 10 and 11, 2018. (Paper Presentation)
- National Seminar on 'Frontiers in Biological Science (FIBS): Chapter III' organised by Department of Microbiology, St. Xavier's College (Autonomous), Kolkata, in association with Presidency University, Kolkata & IICB, Kolkata, India. 21st and 22nd September, 2019. (Poster Presentation)
- National Seminar on 'Recent Advances in Chemical & Biological Sciences (RACB 2019)', organised by Department of Chemistry, St. Xavier's College (Autonomous), Kolkata. 23rd September, 2019 (Poster presentation)
- International Conference on Climate Change: Global Cooperation organised by Department of Env Sc, St. Xavier's College (Autonomous), Kolkata, India. 26th and 27th August, 2022. (Poster Presentation)
- ICSSR Sponsored One Day National Seminar in Collaborative Research Project under Vision Viksit Bharat@2047 on "Enhancing Quality of Life and Addressing Vulnerability

Issues Among India's Elderly Population", organised at St. Xavier's College (Autonomous), Kolkata. December 14, 2024. (Paper presentation)

Invited talks:

- Invited talk on 'Language of Literature' at State level Seminar on 'Comparative pronunciation between some well-known words of Sanskrit, Parsi, Greek & The Language of Literature' organised by Janachetana Nagarik Kalyan Samity in association with Bhasha-Shilpo-Sahityo Gabeshana Kendra, Kolkata. 2017.
- Invited talk on 'Excavating significance of emotion-cognition interactions in the contemporary educational arena' as part of UGC Sponsored International Seminar On 'Education, Emotion and Contemporary Global World', organised by Centre for Disability Studies and Rehabilitation, Jadavpur University, jointly organized by Byanjanbarna Foundation, Kolkata. 2017.
- Invited talk on 'Mantra in life' and felicitation at Behala Sahityo Songshod, Kolkata. 2019.
- Invited talk on 'Bornomoy Vidyasagar' at Brihottoro Behala Boimela, Kolkata. 2020.
- Invited Lecture on 'Lock down stress relievers - a focus on emotional health' as part of International Webinar Series - Genesis, Revelation in a Post-apocalyptic world, 2020, hosted by Postgraduate Dept of Zoology, Asutosh College, Kolkata. 2020. (<https://youtu.be/jGbrK1O58LM>)
- Invited Lecture on 'Enigma of Pain: A Neurocognitive Perspective' as part of Alumni Scientific Interactives, hosted by Postgraduate Dept of Zoology, Vivekananda College, Kolkata. 2020.
- Invited Lecture on 'Insidious Depression: A Neurocognitive Perspective' hosted by Postgraduate Dept of Zoology, T.H.K. Jain College, Kolkata. 2020.

Training/Courses undertaken:

- UGC-sponsored '50th Orientation Program', conducted by the UGC-Academic Staff College, Jadavpur University, Salt Lake Campus, held during 17/02/2014- 15/03/2014 (Obtained Grade A).
- UGC-sponsored 3 weeks Interdisciplinary Refresher course on "Disaster Management", organised by the Civil Engineering Department, Jadavpur University, held during 10/03/2015 – 31/03/2015 (Obtained Grade A).
- 1 Week Training: Short Term Training Programme on 'Bio Medical Instrumentation', held at NITTTR, Salt Lake City, Kolkata. 14/10/2019 - 18/10/2019.
- UGC-sponsored 'Interdisciplinary Refresher course in Life Sciences', organised by the UGC-HRDC, University of Calcutta, Kolkata, held during 04/01/2020 – 17/01/2020. (Obtained Grade A+).
- 1 Week National Level Workshop on 'Techno Pedagogy & Research Methodology' organised by B.Ed. Section of Kalna College (Affiliated to the University of Burdwan), Kalna, West Bengal in collaboration with School of Education, Mahatma Gandhi Central University, East Champaran, Bihar, Department of Education, Raiganj University, West Bengal and Ramakrishna Mission Sikshanamandira, Belur Math, West Bengal on 'Techno Pedagogy & Research Methodology'. 17th- 23rd July, 2020.

- Five Days e-Workshop: Five Days e-Workshop Program on 'Emerging trends in computer science and engineering' organised by Department Of Computer Software Technology, Sheikhpara A.R.M Polytechnic, Sheikhpara , Murshidabad in collaborating with Ardent Computech Pvt. Ltd. 27th - 31st July, 2020.
- 5-day Online FDP: 5-day Online FDP on Online FDP on Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna. 21 - 25 September 2020.
- MOOCOLLOQUIUM Online workshop on ' Prospects, Challenges & Development of MOOC, presented by EMMRC, St. Xavier's College (Autonomous), Kolkata. 26th & 27th September 2020.
- Two Day National Workshop on 'How to use information and communication technology in teaching learning and administrative work in higher education institutions' organized by INTERFACE (An Interdisciplinary Discussion Forum), Bankura University, Bankura, West Bengal, India in collaboration with Malda College, Malda, West Bengal. 29 & 30 September, 2020.
- International Workshop "Climate Change impact on Water Resources Systems (CCIWRS 2020)" organized by Department of Civil Engineering, National Institute of Technology Silchar sponsored by TEQIP-III in association with IIC, NIT Silchar. September 28-October 02, 2020.
- Three Day International Web-Workshop on 'Dynamics of gender justice and violence against women: issues, challenges and remedies' organized by Sexual Harassment Prevention Cell, Bankura University Main Campus, Bankura Block – II, P.O. Purandarpur, Dist.: Bankura, Pin – 722 155, West Bengal, India. 3rd-5th October, 2020.
- Seven Day Workshop on 'Science Communication' organised by Indian Science News Association (ISNA), Kolkata & Vigyan Prasar, DST, Govt. of India, New Delhi. 24th November to 01st December, 2020.
- Training on the use of Anti-Plagiarism Software for Ph.D Supervisors and Scholars, organised by Fr.Verstraten Library of St. Xavier's College in collaboration with Ph.D Cell, St. Xavier's College (Autonomous), Kolkata. 17th September, 2024.

FDPs attended:

- Faculty Orientation Programme. St Xavier's College, Kolkata. September 24, 2011.
- Faculty Improvement Programme. St Xavier's College, Kolkata. July 7, 2012.
- Faculty Improvement Programme. St Xavier's College, Kolkata. July 6, 2013.
- Faculty Improvement Programme, St Xavier's College, Kolkata, India. July 19, 2014.
- Faculty Improvement Programme for Junior teachers, St Xavier's College (Autonomous), Kolkata, India. June 20, 2015.
- Faculty Orientation Programme, St Xavier's College (Autonomous), Kolkata, India. July 13, 2019.
- 5 days FDP: National Faculty Enrichment Programme On 'Digital technology for teaching of life sciences and humanities' organised by Post Graduate and Research Department of Zoology, Dr Ambedkar Government Arts College (An Autonomous Institution Affiliated to the University of Madras), Vyasarpadi, Chennai 600039 in collaboration with Indian Science Congress Association. 21-25th July 2020.
- National level Online Faculty Development Program on Digital Pedagogy: ICT & AI assisted teaching in-line with OBE & NEP organised by the The Internal Quality Assurance

Cell (IQAC) of both St. James College of Nursing and St. James College of Pharmaceutical Sciences, Chalakudy in association with The Kerala State Higher Education Council. 29th May to 05th June 2024.

- FDP organised by St Xavier's College (Autonomous), Kolkata, India on 'Question paper setting & preparation of marking scheme', 13 March 2025.
- 5-day Online Summer Faculty Development Program on "Generative AI Tools for Smart Teaching, organised by AIACHE, New Delhi. June 9 to 13, 2025.

Research Project:

As Co-PI along with PI, Dr Sudipa Saha for the project entitled "Comparative studies on biochemical and physicochemical characteristics of lens alpha-crystallin from habitat-specific fish". (2018-2021). Research Scholar: Sushmita Nandy

Course Instructor:

MSc Zoology Programme, IGNOU.

Cultural and Literary Pursuits:

International Literary Publication

International e-paper: Poem 'Kabyik Bastob' published on July 26, 2020 in Daily e-paper (Daily Bahadur) from Bangladesh.

As Performer

- Invited Performer in the International Program entitled 'Kothay o Kobitay Rabindranath Tagore' as part of International Festival-2021, organised by International Culture Centre (ICC). 8 August, 2021.
- Invited Performer in 'Thailand: Bangladesh Bharat International Sanskritik Jot'. 15 August, 2021.
- Invited Performer in International cultural program entitled 'Tumi acho Chirodin' organised by The Global TV (UK). 25 August, 2021.
- Invited Performer in 'Murshidabad Bharat Bangladesh International Sanskritik Jot'. 12 September, 2021.
- Invited Performer in 'Dhaka Mahanagar Dakshin: Dhaka Kolkata International Sanskritik Jot'. 15 September, 2021.
- Invited Performer in International cultural program entitled 'Banglar Kristi' organised by Early Star TV (Italy). 18 September, 2021.
- Honorary Position as Associate Producer in the Television Channel from UK, 'The Global TV'. (16 Oct 2021 onwards).

Honour

- Felicitated by "Behala Sahityo Songshod", Kolkata, at the Annual literature and cultural festival 2019 in recognition of her cultural and literary contributions. 31st March 2019.
