

Dr P. K. Dixit, Associate Professor



Post Graduate Department of Zoology, Berhampur University
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Education

- 2002** **Doctorate of Philosophy (Zoology)**
Berhampur University, Berampur-760007, Ganjam, Odisha, India
Thesis title: Hormonal Adaptations of Indian toads to Thermal Stress
- 1996** **Master of Science in Zoology**
Berhampur University, Berampur-760007, Ganjam, Odisha, India
Specialization: Cell Physiology and Biochemistry.

Area of Specializations

- Teaching** Physiology, Molecular Biology, Ethology, Metabolic disorders, Molecular Genetics, Biochemistry, Microbiology, Endocrinology, Research Ethics, and Instrumentation at M. Sc and M. Phil level.
- Research** Adaptive Physiology and Biochemistry, Drug Delivery and designing

Leadership Activities

- 2022-** Head, Post Graduate Department of Zoology, Berhampur University
2019-2021 Head, Post Graduate Department of Zoology, Berhampur University
2015-2019 Coordinator, Research Cell, Berhampur University
2015-2017 Superintendent, Nagabali Boys Hostel from 01.06.2015 to 31.05.2017
2013-2015 Head, Post Graduate Department of Zoology, Berhampur University
2014 -2015 Course Coordinator, M. Sc Zoology (DE Mode).
2014 -2015 Assistant Coordinator, Department of Biotechnology (SFC).

Professional Affiliation

- 2017-** Associate Professor, Department of Zoology, Berhampur University, Berhampur, Odisha
2012 - 2017 Reader, Department of Zoology, Berhampur University, Berhampur, Odisha
2012 RA (DST-PURSE), P. G. Department of Zoology, Utkal University (10.07.2012 to 24.09.2012)
2002-2011 Faculty Member ICFAI University, Tripura (10.08.2002 to 31.12. 2011)

Other Administrative Responsibilities Handled

- Member, Senate of Berhampur University, 2013-15
- Member, Academic council of Berhampur University 2013-15.
- Managing the University Deer Park as the Head of the Department from, June 2013-May2015.
- Member, Board of Studies in Life Sc., Microbiology, Zoology, Pharmacy and Environmental Science, and Biotechnology of Berhampur University
- Member, DRDC in Zoology, Biotechnology, Life Sc., and Pharmacy of Berhampur University
- Asst. Coordinator, Transportation Committee in the 30th Inter-University Central Zone Youth Festival, "Yuva Prativa Parva-2014" hoisted by Berhampur University from 25-29th November, 2014 in collaboration with AIU, New Delhi and Sponsored by The Ministry of Skill Development, Entrepreneurship, Youth Affairs and Sports, Govt. of India.
- Member, NAAC Steering Committee, for re-accreditation process of Berhampur University 2015.
- Convener, RAR writing for Criterion-V (Students support and Progression)-2015
- Member, Scrutiny committee to scrutinize the nomination papers of Students' Union election, 2015.
- Member, for Finalization of Regulations for P.G. and U.G. Course and Examinations under CBCS of Berhampur University, 2015
- Member, Renovation and Up-gradation of existing Facilities out of RUSA grant, 2015.
- Scrutinizer/Tabulator for the Examinations of Post Graduate/Professional Unit for the year 2016-17.
- Centre Superintendent, Part-I (DEC) Examination-2016
- Deer park responsibility for handing over the management of deer park to Department of Forests, Govt. of Odisha.
- Member for finalization of M.Phil., and Ph.D regulations of Berhampur University, 2016
- Deputy Coordinator, Health Care facilities XIIth UGC grant plan, 2016-17
- Member of the committee for the development and beautification of University Campus 2017
- Vice President ,Athletic Association Berahmapur University,2017-18 and 2018-19 and successfully organized the Annual Athletic Meet of P. G. Departments on 20th March, 2018 with participation of more than 300 athletes
- Member of the committee for finalization of location for the construction of Oxidation pond for waste water disposal and toilet complex
- Secretary, Sports Council, Berhampur University, Session 2018-19
- Vice-President, Berhampur University Teachers Association (BUTA) 2019-
- Successfully coordinated the shifting of the Deer Park and appreciated by the Syndicate of Berhampur University.
- Deputy Coordinator, Induction Program for SSB recruited lecturers, Govt. of Odisha from 13.01.2020 to 19.01.2020
- Chairman BoS in Zoology of Berhampur University from 2020-21
- OIC, Purchase (01.04.2022 to 12.05.2022)
- Member, to check single-use plastics inside University Campus
- Member, Anti Ragging Committee of Berhampur University

- Co-convenor, National Conference on Biological Sciences in Post-genomic Era (3-4 November, 2023) - NCBSPGE-2023

Contribution to Academic/Technical Education

- Member Board of Studies in Life Science, of Sambalpur University

Any other Activities (Member, Editorial Board)

- External Examiner for Other Universities
- Ph.D. External Examiner for other State universities
- Reviewer for International Journal of “**Advances in Zoology and Botany**”.
- Member, Recognition/affiliation committee to various affiliated colleges under Berhampur University.
- Member, Editorial Board of “**International Science and Research Journals**” from 2014

Membership of Academic Bodies

- Life member-Alumni Association, Department of Zoology, Berhampur University, from 1996
- Life member-Association of Biotechnology and Pharmacy from 2015
- Life member-Zoological Society, Kolkata from 2016
- Life member-Odisha Bigyan Academy from 2016
- Member-Berhampur University Teachers Association (BUTA), from 2012
- Joint Secretary, Odisha Zoological Society, 2018-

Conferences/Workshops/Short-term Courses

1. Attended one week teachers training program on "**Components of Quality Teaching and Learning**" by **Bharat Learning and Bharat Digital Academy, July 19-23, 2023**
2. Attended International Conference entitled "**Intellectual Property rights vs converting ideas into patents**" by **School of Pharmacy, The Neotia University, Sponsored by NiPAM, May 15, 2023**
3. Attended workshop entitled "Towards ethical publishing: Understanding plagiarism and Importance of Journal quality" by OSHEC, Sponsored by Elsevier, June 30, 2022
4. Attended workshop entitled "Managing References made easy using Mendeley", by University of Delhi, Sponsored by Elsevier, May 25, 2022
5. Attended the Webinar entitled "Frontiers in Biological Sciences" held from 28th February to 01st March, 2022, by Department of Zoology, Berhampur University
6. Participated in the **National Webinar on "Use of online resources in teaching-learning process"** organized by **Uka Tarsadia University on 20.05.2020**
7. Participated in the **National Webinar on "The New Normal in Education"** organized by the **Internal Quality Assurance Cell, St. Albert's College (Auto.) on 23 May 2020.**

8. Organized the National Seminar “**Advances and Challenges in Biological Sciences, ACBS-2020**” as Co-Convener, at **Post Graduate Department of Zoology, February 12-13, 2020**
9. Participated the **National Workshop on “Faunal Diversity of Chilika Lagoon”** Organized by **Estuarine Biology Regional Centre, Zoological Survey of India, Gopalpur-on-sea. July 26, 2019.**
10. Participated the **National Conference on “Crossroads of Biological Sciences and its applications (CBSA)-2019”** Organized by the **Post Graduate Department of Zoology** and presented a poster entitled “**Quality by design approach for development and optimization of PLGA based nanoparticles for colorectal cancer treatment**”. **February 15-16, 2019 at Berhampur University, Bhanja Bihar, Berhampur, India**
11. Attended the **National Seminar on “Biological Sciences for human welfare: Teaching and research in modern prospective”**, organized by **Department of Zoology, Berhampore Girls College, Berhampore, Mursidabad (WB)**, and presented a paper entitled “**Deleterious effects of leadHuman Brain Cells**”, **29-30 September, 2018 and also chaired a session.**
12. Attended the **National Seminar on “Beach Erosion and Anthropogenic exploitation at costal line of Odisha and its effect on Olive Ridley sea turtle, Irrawaddy Dolphin and fish population and measures for conservation”**, organized by **Department of Zoology, Berhampur University** in association with the **AABAHAN**, Sponsored by **Ministry of Earth Sciences, Govt. of India**, and presented a paper entitled “**Threat to the Coastal Plain of Odisha: A Future Prediction Study**”, **29-30 March 2018.**
13. Attended the one week **UGC Sponsored Short Term Course on “Research Methodology”** held at **Human Resource Development Centre, Andhra University, Vishakapatnam** from **19th -25th June, 2017.**
14. Attended the **National One week Faculty Development Programme on “Innovations in Teaching and Research Methods, IITRM-2017”** held at **Modern Engineering and Management Studies, Balasore** from **5th -11th June, 2017.**
15. Participated the **UGC sponsored National Seminar on “Animal Science Research for Mankind: Perspective and Prospects”** Organized by the **Department of Zoology, North Orissa University, Takatpur, Baripada**, and delivered a talk on “**Seasonal Variation and Occurrence of Malaria in Ganjam District of Odisha**”. **March 24-25, 2017.**
16. Participated the **International Conference on “Recent Trends of Chemical and Biological Sciences in Medicine, Natural Product and Drug Discovery (IC-RTCBSMNPDD)-2017”** Organized by the **Post Graduate Department of Chemistry** and presented two poster entitled 1. “**Safety profiling and anti-cancer potential of solvent extracts of Gishta (Annona spp.) of Ethiopia, N E Africa**”; 2. **Formulation, Optimization and Evaluation of Capecitabine Loaded Nanoparticles by Quality by Design (QbD) Approach for Colorectal Cancer Targeting**”. **March 03-05, 2017 at Berhampur University, Bhanja Bihar, Berhampur, India**

17. Participated the **National Workshop-cum-training on “Recent Development and Future trends of Bioinformatics in Biological Science”** Organized by BIF Centre, and Sponsored by BTISnet-Department of Biotechnology, Government of India, New Delhi at Department of Zoology, Berhampur University. December 26-27, 2016.
18. Participated the **World Congress on “Drug discovery and Development and 4th World Congress on Gerontology and Geriatrics”** Organized by the BioGenesis Health Cluster and presented an abstract entitled **“Muco-adhesive microcapsules for oral delivery of anticancer drugs: an alternative approach for intestinal cancer treatment”**. November 23-26, 2016 at J N Tata Auditorium, Indian Institute of Science, Bengaluru, India.
19. Attended the **National Seminar on “Adverse Impact of Global Climate Change & Irregular Monsoon on Agriculture, Aquaculture & Capture Fishery in Coastal India and its Management”**, organized by Department of Zoology, Berhampur University in association with the AABAHAN, Sponsored by Ministry of Earth Sciences, Govt. of India, and presented full paper entitled **“Seasonal Variation, Climate Change and Vector-borne Diseases, a Complex Relationship”**, 26-27 March 2016, Seminar Proceedings, Page 37-48.
20. Participated the **International Conference on “Recent Advances in Biosciences and Applications of Engineering in production of Biopharmaceuticals-RABAEB-2015 and 9th Annual Convention of Association of Biotechnology and Pharmacy”** jointly Organized by the Department of Biotechnology, K.L. University, Andhra Pradesh, International Society for Neurochemistry and Department of Biotechnology and presented an abstract entitled **“Nanoparticulate system for oral delivery of anticancer drugs- A brief review”**. December 14-16, 2015. Also chaired a technical session in the above conference.
21. Participated the **International Seminar on “Academic Integrity”** Organized by IIT Bhubaneswar and Sponsored by turnitin international and i-Group India, at IIT Bhubaneswar. November 18, 2015.
22. Participated the **National Workshop on “Recent Trends in Marine Biotechnology in Odisha”** Organized by Ganapati Sabat Foundation and Sponsored by Department of Biotechnology, Government of India, New Delhi at Youth Hostel, Gopalpur-on-sea. October 20, 2015.
23. Participated as the **Invited Speaker** at the State level Workshop on **“Pharmaceutical Education and Industrialization in Odisha: Scope and Challenges”** organized by APTI-Odisha State Branch at Utkal University, Bhubaneswar, Odisha on September 13, 2015.
24. Participated the National Workshop on **“Biotechnology for Economic Enhancement of Rural Community in Southern Region of Odisha”** organized by Post Graduate Department of Zoology, Berhampur University, Berhampur, Odisha Sponsored by DBT and in association with Socio Cultural Development Centre. September 11, 2015.
25. Participated the **International Conference on “Innovative Applications of Chemistry in Pharmacology & Technology (IC-IACPT-2015)”** Organized by the Department of

- Chemistry, Berhampur University, Berhampur, Odisha, and presented a Poster on “CHITOSAN and COS: An Innovative antifungal composition for Pharmacological and Phyto-sanitary Application”. February 06-08, 2015.**
26. Participated the **Global Summit on “Emerging Science and Technology: Impact on Environment & Human Health”** Special Symposia on **“Cancer Therapy Environmental Toxicology”** jointly Organized by the **Department of Biotechnology, Vikram Simhapuri University, Nellore, Andhra Pradesh, and UNT Health Science Center, Fortworth, Texas, USA** and presented an abstract entitled **“Effect of Seed Extracts of *Caesalpinia bonducella* on Spermatogenesis of Swiss Mice”**. August 01-03, 2014.
 27. Participated the **National Seminar on “Current Trends of Animal Science Research in India”** Organized by the **North Orissa University, Takatpur, Baripada,** and presented a Paper entitled **“Dose dependent regulatory role of thyroxine on different enzymes in common Indian toad, *Duttaphyrinus melanostictus***. March 21-22, 2014.
 28. Participated the **National Workshop on “Bioinformatics and Biodiversity Conservation”** Organized by Ganapati Sabat Foundation and Sponsored by **Department of Biotechnology, Government of India, New Delhi at Youth Hostel, Gopalpur-on-sea.** February 01, 2014
 29. Participated the **Regional Science Congress on “Innovations in Science and Technology for Inclusive Development”** Organized by the **Indian Science Congress Association, Bhubaneswar Chapter,** and presented two abstracts entitled **“Vertebrate Fauna and Related Vegetation of Coastal Belt of Ganjam District of Odisha and Their Conservation”, and “Role of Key Stone Species in Biodiversity”**. January 27-28, 2014.
 30. Participated in **Group Discussion of ICSSR Sponsored National Seminar on “Indegenous People and Their Rights: Issues and Challenges”** organized by **Centre for Canadian Studies, Berhampur University, Berhampur on January, 10-11, 2014.**
 31. Attended the **BTISnet-DBT Sponsored Workshop-cum-training Programme on “Application of Bioinformatics Tools in Biological Science teaching and Research”** organized by **BIF Centre, Post Graduate Department of Zoology, Berhampur University, Odisha, 22-24th March, 2013.**
 32. Participated the **“1st meeting of Indian Immunological Society-Odisha Chapter”** jointly hosted by **NISER and ILS, Bhubaneswar, Odisha, on August 11, 2012.**
 33. Attended the **“UGC (ERO) XIth Plan Sponsored State level Seminar on “Physical Methods of Waste treatment”** organized by the **Department of Physics, Pipli College, Pipli, Puri** and presented the paper entitled **“Methods of Medical Waste Management”, 05-06th March 2012.**
 34. Attended the **“UGC (ERO) XIth Plan Sponsored State level Seminar on “Impact of Climate Change on Health in India”** organized by the **Department of Botany, Pipli College, Pipli, Puri** and presented the paper entitled **“Climate Change and Associated Health Problems in Humans’, 04-05th March 2012.**
 35. Attended the **“National Seminar on Modern Biology and Human Welfare”** organized by the **P. G. Department of Zoology, Berhampur University** and presented the abstract

- entitled "Age Determination in Common Indian toad, *Bufo melanostictus* by 'Skeletochronology.' (Communicated to Journal for Publication)", 28-29th March 2012.
36. Attended the "UGC Sponsored National Seminar on "Contribution of Islam on Odissan Culture" organized by the Department of History, Pipli College, Pipli, Puri and participated in active discussion, on 25-26th March 2012.
 37. Attended the "National Seminar on Effect of Global Warming and rapid changes in Oceanic line at Costal Orissa and its effect on Migratory birds of lake *Chilika* and ecological consequences" organized by the AABAHAN, Sponsored by Ministry of Environment and Forests, Govt. of India, and presented paper entitled " Global Warming and Birds", 13-14 March 2010.
 38. Attended the QIP short-term course on "Fundamental Techniques in r-DNA Technology" held at IIT, Guwahati organized by the Department of Biotechnology during 3rd-7th July, 2006.
 39. Attended the Faculty Development Program at Hyderabad from 12-14 May 2003, organized by ICFAI University.
 40. Attended workshop on "Bio-informatics tools in Genomics and Proteomics" organized by Institute of Life Sciences (DBT), Bhubaneswar from 16-18 March 2004.
 41. Attended the Workshop-cum-training program on "Animal Cell and Tissue Culture" at National Center for Cell Sciences (NCCS), Pune (India) held from 15th April to 27th April 2002. Here I am specially trained to handle the various aspects of tissue culture techniques including maintaining the culture media, aseptic techniques, and prevention of contamination, cell characterization, media preparation, viability test and Cryo-preservation of cells.

Publications (Articles/Edited Volume)

1. Sanjeeb K. Kar, Shubhrata Nayak, Uma S. Mishra, **Prasanna Kumar Dixit (2024)**: Antioxidant and Anti-inflammatory activity of the terpenoidal fraction of ethanolic extract of *Byttneria herbacea*. **Research J. Pharm. and Tech (Accepted)**
2. Prashanta Kumar Panda, **Prasanna Kumar Dixit** and Uma Shankar Mishra (2023): Review on mucoadhesive drug delivery system: an essential means in designing of innovative controlled drug delivery system for the effective delivery of pharmaceuticals, **Eur. Chem. Bull. 2023 (Section:A), 12(Special Issue 4), 3761-3779, ISSN 2063-5346, DOI: 10.48047/ecb/2023.12.si4.321**
3. Sanjeeb K. Kar, Shubhrata Nayak, Uma S. Mishra, **Prasanna Kumar Dixit**, Soumya R. Pradhan, Sagnika Pradhan (2023): Phytochemical Analysis and Antioxidant activity of *Byttneria herbacea* (Malvaceae), **Research J. Pharm. and Tech. 16(4)**: April 2023, pp: 1659-1663, ISSN 0974-3618 (Print) DOI: 10.52711/0974-360X.2023.00271

4. Sanjeeb K. Kar, Uma S. Mishra, **Prasanna Kumar Dixit**, and Shubhrata Nayak (2023): Isolation of Betulinic Acid from *Byttneria herbacea* (Malvaceae), **Research J. Pharm. and Tech.** **16(2)**: February 2023, pp: 535-538, ISSN 0974-3618 (Print)
5. S. Sahu, **P. K. Dixit**, C. Dora and R. N. Patro (2022): Post-natal Head Circumference Prediction using ANN Regressor, **3rd International Conference for Emerging Technology (INCET)**, May 2022, pp. 1-5, doi: 10.1109/INCET54531.2022.9825311
6. Saswati Panigrahi, Uma Shankar Mishra, **Prasanna Kumar Dixit**, Piyusha Ranjan Mishra (2022): Isolation and Characterization of Bioconstituents Present in *Calendula arvensis* leaf, **Neuro Quantology**, September 2022, Volume 20(9), Page 3393-3402, ISSN: 1303-5150 <https://doi.org/10.14704/nq.2022.20.9.NQ44389>.
7. Tripathy, P.K., Seth, J.K. & Dixit, P.K. (2022): Geometric morphometric analysis of flatfishes of Gopalpur-on-Sea, Odisha coast, India. *Proc. Indian Natl. Sci. Acad.* **88**, 90–103 (2022). <https://doi.org/10.1007/s43538-021-00061-2>
8. Panigrahi, S., Mishra, U. S., **Dixit, P. K.**, & Mishra, P. R. (2022). Phytochemical screening, isolation and characterization of potential bioconstituents present in *Hyptis suaveolens*. **International Journal of Health Sciences**, **6(S2)**. ISSN: 2550-6978, <https://doi.org/10.53730/ijhs.v6nS2.7995>
9. Lakshmi Jaya Madhuri Bandaru, Neelima Ayyalasomayajula, Lokesh Murumulla, **Prasanna Kumar Dixit** & Suresh Challa (2022): Defective mitophagy and induction of apoptosis by the depleted levels of PINK1 and Parkin in Pb and β -amyloid peptide induced toxicity, **Toxicology Mechanisms and Methods**, <https://doi.org/10.1080/15376516.2022.2054749>
10. Neelima Ayyalasomayajula, Lakshmi Jaya Madhuri Bandaru, Chellu S. Chetty, Prasanna Kumar Dixit and Suresh Challa (2021): Mitochondria-Mediated Moderation of Apoptosis by EGCG in Cytotoxic Neuronal Cells Induced by Lead (Pb) and Amyloid Peptides, **Biological Trace Element Research**, <https://doi.org/10.1007/s12011-021-02959-w>
11. Abhaya Prasad Tripathy, **Prasanna Kumar Dixit** and Ashok Kumar Panigrahi (2022): Impact of effluent of Pulp & Paper industry on the flora of river basin at Jaykaypur, Odisha, India and its ecological implications, *Environmental Research*, 104 (Vol A): 111769, March 2022. <https://doi.org/10.1016/j.envres.2021.111769>
12. Saishree Sahu, **Prasanna Kumar Dixit**, and Chinmayee Dora (2022): Study on the effect of socioeconomic status of the family on the primary dentition of neonates in the Ganjam district, Odisha, **Indian Journal of Public Health Research & Development**, 13 (01), January-March, 2022
13. Tripathy A. P., Padhi N., **Dixit P. K.** and Panigrahi A. K. (2021): Eco-toxicity and temperature stress studies of heavy metal contained Pulp and Paper Mill industrial effluent on cyanobacteria under laboratory controlled conditions, *Eco. Env. & Cons.* 27 (Nov. Suppl. Issue) S420-S431, ISSN: 0971-765X
14. Sanatan Singh and **Prasanna Kumar Dixit** (2021): Significance of Different Parameters on Fish Biological Processes, **IJSRM. Human**, 2021; Vol. 19 (1): 1-17, ISSN: 2454-2008

15. Harikrishna Ramaprasad Saripalli and **Prasanna Kumar Dixit** (2021): GC-MS Analysis of Bioactive Components in the Methanolic Extract of Graviola (Gishta) Seeds and Their Pharmacological Activities, **International Journal of Pharma and Bio Sciences**, **12(3)**, 48-57, <http://dx.doi.org/10.22376/ijpbs.2021.12.3.B48-57>
16. Prashanta Kumar Panda, Uma Shankar Mishra and **Prasanna Kumar Dixit** (2021): **Preparation and Characterization of Lamotrigine Mucoadhesive Tablets with Natural Polymers**, **Annals of the Romanian Society for Cell Biology**, **Vol 25 (5)**: 5233–5241 (ISSN: 1583-6258)
17. Prashanta Kumar Panda, **Prasanna Kumar Dixit** and Uma Shankar Mishra (2021): Formulation development and evaluation of Cefixime mucoadhesive tablets using natural polymers, **European Journal of Molecular & Clinical Medicine**, **Vol: 8 (1)**: 1995-2008 (ISSN 2515-8260)
18. Harikrishna Ramaprasad Saripalli, and **Prasanna Kumar Dixit** (2020): Green synthesis of silver nanoparticles using Graviola (Gishta) seed extracts and their antimicrobial activities, **Journal of Interdisciplinary Cycle Research**, **Volume XII, Issue IX, September/2020**, pp.1086-1103, DOI:18.0002.JICR.2020.V12I9.008301.3171220128
19. Mamata Mishra and **Prasanna Kumar Dixit** (2020): Multi-potential influence of gut microbiota on human health, **International Journal of Food, Nutrition and Dietetics**, **Vol: 8 (2)**: 79-84, (ISSN: 2455-569X), DOI: <http://dx.doi.org/10.21088/ijfnd.2322.0775.8220.3>
20. Chinmaya Mahapatra, Padala Narasimha Murthy, Anjan Kumar Mahapatra, Sudhir Kumar Sahoo, **Prasanna Kumar Dixit** (2020): Development, Characterization and Optimization of Polymeric Mucoadhesive Microcapsules containing anticancer agent using Response Surface Method: *in vitro* and *in vivo* Study, **International Journal of Research in Pharmaceutical Sciences**, **Vol: 11 (3) PP:3429-3442, July 2020 (ISSN: 0975-7538) DOI: <https://doi.org/10.26452/ijrps.v11i3.2483>**
21. Mamata Mishra and **Prasanna Kumar Dixit** (2020): CSF biomarkers as potential screen of HIV-1 subtype C in post-HAART era, **Indian Journal of Neuroscience**, **Vol:6(2)**, pp78-82, ISSN: 2581-8236, DOI: <https://doi.org/10.18231/j.ijn.2020.016>
22. Mamata Mishra and **Prasanna Kumar Dixit** (2020): Cellular lactate and pyruvate are key intermediates for intra-cellular energy metabolism in age related phenomenon, **International Journal of Clinical Biochemistry and Research**: **Vol:7 (2)** , pp 285-290, ISSN: 2394-6369, DOI: <https://doi.org/10.18231/j.ijcbr.2020.062>
23. Chinmaya Mahapatra, Padala Narasimha Murthy, Sudhir Kumar Sahoo, Anjan Kumar Mahapatra, **Prasanna Kumar Dixit** (2020): Preparation and characterization of mucoadhesive microcapsules of paclitaxel, **International Journal of Research in Pharmaceutical Sciences**, **Vol: 11 (2) PP:2575-2583, July 2020 (ISSN: 0975-7538) <https://doi.org/10.26452/ijrps.v11i2.2262>**
24. Goutam Kumar Jena, C H Niranjan Patra, **Prasanna Kumar Dixit** (2020): Cytotoxicity and Pharmacokinetic Studies of PLGA Based Capecitabine Loaded Nanoparticles, **Indian Journal of Pharmaceutical Education and Research**, **Vol 54 (4)**, PP: 349-356 Apr-June, 2020, DOI: 10.5530/ijper.54.2.40
25. Neelima Ayyalasomayajula, Madhuri Bandaru, **Prasanna Kumar Dixit**, Rajanna Ajumeera, Chellu S. Chetty, Suresh Challa (2020): Inactivation of GAP-43 due to the depletion of cellular calcium by the Pb and amuloid peptide induced toxicity: An *in vitro* approach, **Chemico-Biological Interactions**, **Vol: 316 (2020)**, pp: 01-07 ISSN: 0009-2797, <https://doi.org/10.1016/j.cbi.2019.108927>

26. Harikrishna Ramprasad Saripalli and **Prasanna Kumar Dixit (2019)**: Antimicrobial efficacy of solvent extracts of seeds, fruit pulp and leaves of Graviola (Gishta):**International Journal Of Pharmaceutical, Chemical And Biological Sciences, Vol: 9 (3): 128-137, ISSN: 2249-9504.**
27. Manasi Kumari Panda, P. K. Dixit, and A. K. Panigrahi **(2018)**: Toxicological effects of leachate of red mud pond of Nalco on the tissue clice respiration rate of different organs of a fresh water fish, *Oreochromis mossambicus*, Peters under laboratory conditions, **National Journal of Life Sciences, Vol: 15 (2), pp 149-152, ISSN: 0972-995X.**
28. **P. K. Dixit**, A. Padmavati, and A. K. Panigrahi **(2018)**: Impact of paper mill effluent on fresh water fish *Oreochromis mossambicus*, Peters and its eco-toxicological implications, **National Journal of Life Sciences, Vol: 15 (1), pp 45-49, ISSN: 0972-995X.**
29. A. Padmavati, **P. K. Dixit**, and A. K. Panigrahi **(2018)**: Impact of paper mill effluents on respiration rate of a fresh water fish *Oreochromis mossambicus*, Peters and its ecological implications, **Life Science Bulletin, Vol: 15 (1), pp: 101-106, ISSN: 0973-5453.**
30. Manasi Kumari Panda, P. K. Dixit, and A. K. Panigrahi **(2018)**: Impact of Leached Chemicals of Red mud waste on respiration rate of a fresh water fish, *Oreochromis mossambicus*, Peters and its Ecological implications, **Life Science Bulletin, Vol: 15 (1), pp: 89-93 ISSN: 0973-5453.**
31. Suresh Challa and **Prasanna Kumar Dixit (2018)**: Antioxidant and Antiapoptotic Effects of Fraxetin against Lead Induced Toxicity in Human Neuroblastoma Cells, **Organic & Medicinal Chemistry International Journal, 5(1): 555651, ISSN: 2474-7610, DOI: 10.19080/OMCIJ.2018.04.555651.**
32. **Sanatan Singh, G. Mishra, P. K. Dixit (2018)**: Biochemical segregation of amino acids and fatty acids of three fresh water teleosts (*Clarias batrachus*, *Channa punctatus*, and *Anabas testudineus*), **International Journal of Creative Research Thoughts, Volume 6 (1), January 2018, pp 686-694, ISSN: 2320-2882**
33. **Sanatan Singh, G. Mishra, P. K. Dixit (2018)**: Comparative Analysis in Gut Content of Three Fresh Water Teleosts (*Clarias Batrachus*, *Channa punctatus*, and *Anabas Testudineus*) during Different Season, **Indian Journal of Biology, Vol: 5 (1): pp 66-75, ISSN: 2455-8249 DOI: <http://dx.doi.org/10.21088/ijb.2394.1391.5118.10>**
34. Manasi Kumari Panda, P. K. Dixit, and A. K. Panigrahi **(2017)**: Toxicological effects of leached chemicals of red mud waste of NALCO on a fresh water fish and its ecological implications, **National Journal of Life Sciences, Vol: 14 (2), pp 119-124 ISSN: 0972-995X**
35. **Bibaswan Mishra, Prasanta Kumar Biswal, Nihar Ranjan Pani, Prasanna Kumar Dixit (2017)**: In-vitro Characterization and Pharmacokinetic investigation of self-Micro Emulsifying Tablets of Cinnarizine, **Research J. Pharm. and Tech. 10(10): pp 3492-3497, ISSN: 0974-3618 (Print), 0974-360X (Online), DOI: 10.5958/0974-360X.2017.00625.4 (Scopus)**
36. Goutam Kumar Jena, Sunit Kumar Sahoo, Ch. Niranjana Patra, Kahnu Charan Panigrahi, Swatilekha Sahu and **Prasanna Kumar Dixit (2017)**: Design, Optimization, and Evaluation of Capecitabine-loaded Chitosan Microspheres for Colon Targeting, **Asian Journal of Pharmaceutics, Jul-Sep 2017 (Suppl), Vol: 11 (3): S592, ISSN: 0973-8398, Sl. No. 8807**
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Book Chapters

1. Bandita Panda, Archita Lenka, **Prasanna Kumar Dixit**, Sandip Kumar Dash (**2023**): Biosynthesis, Biofunctionalization, and Bioapplications of Manganese Nanomaterials: An Overview, in the Biomaterials-Based Sensors: Recent Advances and Applications, pp: 73-100, (Springer Nature), DOI: 10.1007/978-981-19-8501-0_3
2. Diptikanta Acharya, Sagarika Satapathy, Prasanna Kumar Dixit, Gitanjali Mishra, Padmaja Mohanty, Jayashankar Das and Sushma Dave (2022): Biological nanomaterials for toxicity of bacteria, Nanomaterials in the Battle Against Pathogens and Disease Vectors, **Volume Chapter-7, Year 2022, Pages 187-204** (Springer Nature)
3. Sagarika Satapathy, Diptikanta Acharya, **Prasanna Kumar Dixit**, Gitanjali Mishra, Jayashankar Das and Sushma Dave (**2021**): Mechanistic aspects and rate-limiting steps in green synthesis of metal and metal oxide nanoparticles and their potential in photocatalytic degradation of textile dye, in "**Photocatalytic Degradation of Dyes: Current Trends and Future Perspectives**" (**Elsevier**), **PP: 605-629, ISBN: 978-0- 12-823876-9, (DOI: 10.1016/C2020-0-00551-7)**
4. Abhaya Prasad Tripathy, Prasanna Kumar Dixit and Ashok Kumar Panigrahi (2022): Eco-toxicological impact of paper mill effluents on the crop field soil and crop field inhabiting organisms at Jaykapur, Rayagada, Odisha, In Book: Recent Advances in Soil and Water Education and Research, Chapter-7, Page 67-81, **ABS Books**, New Delhi, **ISBN:978-93-94424-24-1**
5. A Padmavati, Abhaya Prasad Tripathy, Prasanna Kumar Dixit and Ashok Kumar Panigrahi (2022): Eco-toxicological effects of effluents of pulp and paper mill industry on a fresh water fish

under laboratory controlled conditions, In Book: Recent Advances in Soil and Water Education and Research, Chapter-19, Page 200-215, **ABS Books**, New Delhi, **ISBN:978-93-94424-24-1**

6. Sunita Patra and **Prasanna Kumar Dixit** (2020): *Lampito mauritii* (Annelida:Oligochaeta): A potential indicator of soil quality in the agroecosystem of Bhubaneswar, Odisha. Proceedings of International Biodiversity Congress (IBC 2018), **Prospectives on Biodiversity of India, Volume-IV, pp: 597-601, ISBN: 978-81-937930-6-0 (Book Chapter)**

Ph. D. Scholars Awarded/Submitted:

1. **Prasanta Kumar Biswal (2015)**: Formulation and Evaluation of Self-Emulsified Drug Delivery System of Some poorly Water Soluble Drugs. November, 2015
2. **Bibaswan Mishra (2016)**: Formulation Development, Optimization and Characterization of Nanosuspensions of Some poorly Water Soluble Drugs. March, 2016
3. **Goutam Kumar Jena (2019)**: Formulation, Design, Optimization and Characterization of Mucoadhesive Multi-Particulate Drug Delivery Systems of Selected Anticancer Drugs of Colorectal Cancer, March, 2019
4. **Sanatan Singh**: An Approach to Biochemical Studies of Piscine Fatty Acids and Proteins December, 2020
5. **Dr. Challa Suresh**: Deleterious effects of lead and amyloid peptides and their toxic mechanisms in human brain cells October, 2020.
6. **Chinmaya Mahapatra (INSPIRE)**: Anticancer Drug Encapsulated Mucoadhesive Microcapsules to Treat Intestinal Carcinoma Cells (March 2021)
7. **Sanjeeb Kumar Kar**: Phytochemical screening and pharmacological evaluation of *Byttneria herbacea* (Malvaceae),(June, 2023)
8. **Saswati Panigrahi**: Evaluation of Phytochemicals and Biological Activity of Some Selected Traditionally Used Indegenous Medicinal Plants having Antidiabetic Activity, (August, 2023)
9. **Dr. Harikrishna Ramaprasad Saripalli**: Studies on Bioassays and biological properties of the genus *Annona* (*graviola*) in the Ethiopia of north east Africa with special reference to their gc-ms analysis and nanotechnology aspects. (**for D.Sc**), **Submitted the thesis**
10. **Prashanta Kumar Panda**: Formulation, Development and Pharmacological Evaluation of Polyherbal Dosage Forms Prepared from Selected Medicinal Plants of Ganjam District, Odisha. (**Submitted the thesis**)
11. **Saishree Sahu**: A comparative study of post natal development of children in different socio-economic categories in relation to Nutrition (**Submitted the thesis**)
12. **Manasi Kumari Panda**: Environmental contamination caused by the leached chemicals of red mud waste, its impact on a fresh water fish and its ecological implications. **Submitted the thesis**

Ph. D. /D. Sc Scholars Working:

1. **A Padmavati**: Eco-Physiological effects of Effluent of the International paper mill situated at river Godavari basin at Rajmundry on a fresh water fish.
2. **Abhaya Prasad Tripathy**: Eco-Physiological Effects Induced by Effluents of a Paper Mill on a Blue-Green Alga and its possible reclamation by Environmental Agents.

M. Phil Students Awarded:

1. Mrs. A. Padmavati (2014): Eco-Physiological changes induced by a pesticide on a fresh water fish under laboratory controlled conditions
2. Ms. Supriya Gupta (2014): Seasonal variation in the occurrence of different vector borne diseases in Ganjam district of Odisha
3. Ms. Sunita Patra (2015): Ecological diversity and abundance of earthworms in Jatni block of Khordha district, Odisha

4. Shakti Pradayini Nanda (2016): A study on natural compounds for cancer treatment and prevention
5. Priety Naik (2016): Study on diet related diseases and their control
6. Bhabani Karuna Pradhan (2016): Possible role of hormones in regulating metabolic homeostasis a review
7. Susri Madhumita Mohapatra (2017): Organophosphate toxicity on fresh water aquatic organisms with special reference to fish
8. Sasmita Behera (2017): Changes in some biochemical parameters in fresh water fish upon pesticides toxicity
9. Prasanta Kumar Tripathy (2018): Studies on the Flat Fishes (Order: *Pleuronectiformes*) found along Odisha Coast

Awards and Prizes/Scholarships:

1. SRF (CSIR/NET): **01. 02. 1999 to 31. 01. 2002**
2. JRF (CSIR/NET): **21. 04. 1997 to 31. 01. 1999**
3. Gold Medal: 1996 (**In Master of Science Zoology**)
4. Post-Matric National Scholarship