

Mrutyunjaya Panda

SCIENTIFIC RESEARCHER · LIFE SCIENCE

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About: Working as the **Marie Curie Doctoral Research Fellow** on the project “Circadian control of mitochondria-specific autophagy in neuronal degeneration associated with Alzheimer's disease”.

Education

1. University of Verona, Italy

Nov. 2023 – Present

Doctor of Philosophy (PhD) in Medicine

- Inflammation, Immunity and Cancer PhD program
- Supervisor: Prof. Dr. Gabriela Constantin

2. University of Lisbon, Portugal

Nov. 2023 – Present

Doctor of Philosophy (PhD) in Pharmacy, FFUL

- Speciality of Pharmaceutical and Medicinal Chemistry
- Supervisor: Prof. Dr. Rita Guedes

Note: MSCA double doctoral degree by cotutelle agreement between UNIVR and ULisboa

3. National Institute of Technology Rourkela, India

Jul. 2018 – Jun. 2023

Integrated Master of Science (B.Sc. Hons. + M.Sc.) in Life Science

- Highest academic score in the institute among all departments (Gold medallist)
- Class representative of the batch

Research Experiences

1. Nostrum Biodiscovery, Barcelona, Spain

Dec. 2023 – Present | Supervisor: Dr. Chiara Pallara

Marie Curie Doctoral Research Fellow – Drug Discovery Focus Group

- Working as part of the industrial secondment plan within the **TClock4AD** consortium
- Virtual screening for biochemical modulators of clock protein activity and mitophagy levels.

2. Foundation for Research and Technology Hellas, Heraklion, Greece

Dec. 2023 – Present | Supervisor: Prof. Dr. Nektarios Tavernarakis

Marie Curie Doctoral Research Fellow – Institute of Molecular Biology and Biotechnology

- Working at the host institution within the **TClock4AD** consortium under the HORIZON-MSCA-2021-DN-01 call of the European Union (*Grant Agreement no. 101072895*)
- **Project:** Circadian control of mitochondria-specific autophagy in neuronal degeneration associated with Alzheimer's Disease.

- Working with the nematode model (*C. elegans* – WT and transgenic strains) and neuronal cell lines to elucidate the role of circadian rhythm dysfunction in modulating mitophagy in AD.
- For more information on the project and the consortium: <https://site.unibo.it/tclock4ad/en>

3. Indian Institute of Technology, Roorkee, India

Aug. 2023 – Nov. 2023 | PI: Prof. Dr. Gopinath Packirisamy

Graduate Research Assistant – Translational Nanomedicine

- **Project 1:** Synthesis and characterization of polymeric nanoformulation for GSK4112 (Rev-Erbα agonist) drug to study its effect on metabolism. Drug efficacy study with Zebrafish model.
- **Project 2:** Development of a mitochondrial cybrid system to study the role of mitochondria in cancer metabolism.

4. National Institute of Technology, Rourkela, India

Student Researcher – Department of Life Science

- i. **Cancer and Cell Death Lab** | Supervisor: Prof. Dr. Sujit Kumar Bhutia
Autophagic Lysosome Reformation (ALR) and Mitophagy
 - *Master's Dissertation Project (Jul. 2022 – Jun. 2023)*
 - Thesis: "Studying the role of lysosomes in autophagy and associated processes using LAMP1-mcherry construct"
 - **Project 1:** Cloning of LAMP1-mCherry into the lentiviral vector pGenLenti and confocal microscopy-based imaging to study ALR.
 - **Project 2:** Development of PINK1 shRNA in lentiviral vector pLKO.1 to study its role in the regulation of mitophagy.
- ii. **Neural Developmental Biology Lab** | PI: Prof. Dr. Monalisa Mishra
Nanotoxicology studies in *Drosophila melanogaster*
 - *Bachelor's Project (Jan. 2020 – Jul. 2020)*
 - Role of ROS in causing developmental defects in the fly model
- iii. **Laboratory of Infection Immunology** | PI: Prof. Dr. Vidya Devi Negi
 - *Research Project – Extraneous (Nov. 2019 – Mar. 2020)*
 - Deciphering the function of a putative gene "rim M" in the non-pathogenic strain of *Salmonella typhimurium*

5. CSIR - Centre for Cellular and Molecular Biology, Hyderabad, India

May 2022 – July 2022 | PI: Dr. Santosh Kumar

Research Trainee and Intern – CCMB Summer Training Program

- Thesis: "Host cell immunomodulation upon *Helicobacter pylori* infection"
- **Project 1:** Cloning Cag A and Vac A genes into the mammalian vector pEGFPN1 to mimic infection in-vitro and study immunoreceptor signalling.
- **Project 2:** Identification of *H. pylori* peptides presented on MHC in the infected AGS cells for effective immunotherapy.

6. Indian Institute of Technology, Indore, India

Aug. 2021 – Feb. 2022 | Guide PI: Prof. Dr. Hem Chandra Jha

Research Intern – Department of Biosciences and Biomedical Engineering

- Worked with the Infection Bioengineering Group on molecular docking and characterization of SARS CoV-2 E-protein and cell polarity pathways.

Additional Experiences

1. **MSCA DN-JD TClock4AD:**
 - Doctoral Candidate's Representative to the Supervisory Board (Sep. 2024 – Nov. 2025)
 - Core organiser and Student lead representative to organise the *PhD Conference on Drug Development for Alzheimer's Disease* (Heraklion, Nov. 2025)
2. **The Bioscience Society:** Founding President of the Society
 - **NIT Rourkela Chapter:** President (2020-21) | Advisory Panel Board (2021-23)
3. **CICASP, Kyoto University, Japan:** Primatology & Wildlife Science Virtual Internship Program (Mar. 2022) | Guide: Dr. Yuko Hattori
4. **BioSol Centre, Bangladesh:** Research Assistantship on "Computer Based Antiviral Peptide Identification and Designing" (Aug. 2021 – Feb. 2022)
5. **Society for Academic Research in STEM, Dubai, UAE:** Research Fellowship in Biological Sciences (Jul. - Nov. 2021) – "Exosomal miRNAs as biomarkers and potential therapeutics in Creutzfeldt-Jacob Disease" | Mentor: Dr. Anuma Singh
6. **Laney Graduate School, Emory University, Georgia, US:** LGS-SOAR-To-Go Scholar - Internship (Jun. – Aug. 2021) | Mentor: Dr. Amanda Marie James
7. **Indian Astrobiology Research Foundation (IARF), India:** Project Intern - Space Sciences - IYLS 2021 (Nov. 2020 – Jan. 2021) | Guide: Pushkar Vaidya
8. **CSIR – North East Institute of Science and Technology, Jorhat, India:** Research Intern – Summer Research Training Program (SRTP) 2020 (Jun. – Sep. 2020) | Guide: Dr. Prasenjit Manna and Dr. W. Romi
9. **Department of Science & Technology (DST), Govt. of India:** Student Intern - The Inspire Internship Programme for Young Talents (Aug. 2015)
10. **NIT Rourkela:**
 - **International Conference of Frontiers in Biological Sciences (InCoFIBS-2023):** Core team member and Student lead representative
 - **Institute Counselling Service:** Mentor for freshman-year students
 - **Inspire Science Club:** Lecturer
 - **Institute Souvenir Team 2021:** Content creation Team
11. **Aasra:** Social worker - Teaching unprivileged & handicapped students living in the slums of Rourkela city in Odisha, India.

Scientific Publications

1. ***Caenorhabditis elegans* as an emerging high throughput chronotherapeutic drug screening platform for human neurodegenerative disorders** ([Publisher Link](#)) ([PMID: 40683385](#))
Authors: Mrutyunjaya Panda, Maria Fakitsa, Maria Markaki, and Nektarios Tavernarakis
Publisher: Elsevier | *Journal:* Advanced Drug Delivery Reviews | September 2025 Issue
2. **Mitostasis in age-associated neurodegeneration** ([Publisher Link](#)) ([PMID: 39437856](#))
Authors: Mrutyunjaya Panda, Maria Markaki, and Nektarios Tavernarakis
Publisher: Elsevier | *Journal:* BBA Molecular Basis of Disease | January 2025 Issue

3. *Drosophila melanogaster* as an indispensable model to decipher the mode of action of neurotoxic compounds ([Publisher Link](#))

Authors: Monalisa Mishra, Punyatoya Panda, Bedanta Barik, Amrita Mondal, and Mrutyunjaya Panda
Publisher: Tech Science Press | **Journal:** BIOCELL | September 2022 Issue

4. Outer Membrane Vesicles: An Emerging Vaccine Platform ([Publisher Link](#)) (PMID: 36298443)

Authors: Dharmendra Kashyap, Mrutyunjaya Panda, Budhadev Baral, Nidhi Varshney, Sajitha R, Vasundhra Bhandari, Hamendra Singh Parmar, Amit Prasad, and Hem Chandra Jha
Publisher: MDPI | **Journal:** Vaccines | September 2022 Issue

5. Reactive Oxygen Species: The root cause of Nanoparticle-induced toxicity in *Drosophila melanogaster* ([Publisher Link](#)) (PMID: 33877010)

Authors: Monalisa Mishra and Mrutyunjaya Panda
Publisher: Taylor and Francis | **Journal:** Free Radical Research | April 2021 Issue

Oral Presentations

1. Title: Clock gene homologs moderate Alzheimer's disease phenotypes by regulating mitophagy in *C. elegans*

Authors: Mrutyunjaya Panda, Maria Markaki, Nektarios Tavernarakis

Affiliation: Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology – Hellas, Heraklion, Crete, Greece

A. *Event 1:* 1st Training Course: Biology of Aging (*TWIN4+Earlistage*)

Date: 13-17 Oct 2025 | **Venue:** University of Crete, Heraklion, Greece

B. *Event 2:* 2025 Women in Autophagy Annual Symposium

Date: 04-06 Nov 2025 | **Venue:** Virtual presentation

C. *Event 3:* PhD conference on Drug Development for AD (*TClock4AD NT5*)

Date: 05-07 Nov 2025 | **Venue:** Foundation for Research and Technology – Hellas, Heraklion, Greece

Poster Presentations

1. Title: Clock gene homologs moderate Alzheimer's disease phenotypes by regulating mitophagy in *C. elegans*

Authors: Mrutyunjaya Panda, Maria Markaki, Nektarios Tavernarakis

Affiliation: Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology – Hellas, Heraklion, Crete, Greece

Event: Mitochondrial Medicine - Therapeutic Development

Date: 10-12 Nov 2025 | **Venue:** Wellcome Genome Campus, Hinxton, UK

2. Title: Circadian control of mitochondrial autophagy

Authors: Mrutyunjaya Panda, Maria Markaki, Nektarios Tavernarakis

Affiliation: Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology – Hellas, Heraklion, Crete, Greece

Event: TClock4AD – NT3 Mid-term meeting

Date: 24-26 Sept 2024 | **Venue:** IRFMN, Milan, Italy

3. Title: Synthesis and characterization of polymeric nanoformulation for a Rev-Erba agonist drug, GSK4112 to study its effect on metabolism and circadian rhythm

Authors: Mrutyunjaya Panda, B.S. Unnikrishnan, Gopinath Packirisamy

Affiliation: Department of Biosciences and Bioengineering, Indian Institute of Technology Roorkee, Uttarakhand, India

Event: Indo-Japan Symposium on Nanotheranostics (InJaNa) 2024

Date: 22 April 2024 | **Venue:** IIT Roorkee, Uttarakhand, India

4. Title: Host Cell immunomodulation upon *Helicobacter pylori* infection

Authors: Mrutyunjaya Panda, Santosh Kumar

Affiliation: Santosh Kumar Lab, CSIR – Centre for Cellular and Molecular Biology, Hyderabad, Telangana, India

Event: CCMB Summer Training Program (STP) 2022

Date: 23 July 2022 | **Venue:** CSIR – CCMB, Hyderabad, India

Conferences and Workshops

1. Mitochondrial Medicine - Therapeutic Development – Wellcome Genome (Nov 2025)
2. PhD conference on Drug Development for AD – TClock4AD (Nov 2025)
3. 2025 Women in Autophagy Annual Symposium – WIA (Nov 2025)
4. Alzheimer's Association International Conference – Alzheimer's Association (July 2025)
5. Cell Biology of the Nervous System – EMBO (May 2025)
6. Bioinformatics: from observation to data analysis – UNIBZ (Apr 2025)
7. 7th technical workshop: Monitoring Aggrophagy and Lysophagy – WIA (Feb 2025)
8. 1st Iberian Glial Networks Symposium – RGE (Nov 2024)
9. Neuro2024: The PSP and CBD International Research Symposium – CurePSP (Oct 2024)
10. Marie Curie RISE NeuronsXnets Miniscope Workshop – FORTH (Jun-Jul 2024)
11. Drug Development in Oncology 2024 – IOSI and Institut Curie (Jun 2024)
12. FELASA Workshop on Severity Classification and Reporting – UoC (May 2024)
13. Indo-Japan Symposium on Nanotheranostics (InJaNa) 2024 (Apr 2024)
14. AAIC Neuroscience Next – Alzheimer's Association, US (Apr 2024 and Apr 2025)
15. TAU Global Conference 2024 – Alzheimer's Association, US (Mar 2024)
16. International Workshop on MD Simulations Analysis – Decode Life (Mar 2024)
17. Biochemical & Molecular basis of Lifestyle Diseases - ACBICON 2022 (Apr 2022)
18. BioCon Conference – Gave a talk on the topic: Nanoparticle-induced Toxicity – The Biology Society, India (Feb 2022)
19. National Conference on Advancement in Biotechnology – NIT-W (Feb 2022)
20. Training on Computational Biology and Bioinformatics – DBT-BIC, NCAAH (Jan 2022)
21. Proteomics Advanced Winter School (PAWS-2021) – IIT-B (Nov 2021)
22. Biology and Bioengineering Summer Camp (BBSC-2021) – IIT-B (May 2021)
23. Drug Discovery Hackathon (DDH-2020) – PSA to Govt. of India & AICTE (2020-2021)
24. National Conference on Advances in Life Sciences and Biotech – RD University (Jan 2020)
25. Cell Biology Conference and Microscopy Workshop – Institute of Life Science (Dec 2019)

Achievements

1. **Best Oral Presentation Award** – Indo-Japan Symposium on Nanotheranostics (InJaNa 2024) – Indian Institute of Technology Roorkee, India (2024)
2. **Academic Award of Excellence** – Securing the highest grades and first position in the Integrated M.Sc. curriculum of the batch and the Department of Life Science – **National Institute of Technology Rourkela, India** (2018 - 2023)
3. **Academic Certificate of Acknowledgement** – Securing the highest possible grades and outstanding performance in Matriculation - **Education Ministry, Government of India**
4. Association of OD-CG I.C.S.E Schools: **Talent Search Examination** (State Rank 9 - 2012; State Rank 3 - 2011; School Topper - 2010)

Won awards and recognitions in several fields of Academics and Extra-curriculars.

Grants and Fellowships

1. **MEDNIGHT Travel Grant** – Researcher's Night 2025 – Mytilene, Lesvos, Greece (2025)
2. **FENS and IBRO-PERC Travel Grant for NENS courses** – Neural Circuit Development and Plasticity – Utrecht University, Netherlands (2024)
3. **Marie Skłodowska-Curie Actions – Doctoral Research Fellowship** – Doctoral Network - Joint Doctorate: TClock4AD consortium (*HORIZON-MSCA-2021-DN-01*) (2023 - 2026)
4. **Japanese Government (Monbukagakusho: MEXT) Scholarship: Research Scholar Category – Domain: Biology and Biotechnology** (2023)
5. **Junior Research Fellowship and Lectureship/Assistant Professorship Position** – Ranked within the top 1% of student researchers (Life Sciences) – *National Eligibility Test 2022 – University Grants Commission (UGC) and Council of Scientific and Industrial Research (CSIR), India* (2022)

Courses, Licenses and Certifications

1. **TWIN4+Earlistage:** 1st Training Course on the Biology of Aging – University of Crete
2. **TClock4AD: NT-4** Training in transferable skills and Research symposium with industry & business incubator - IMDEA Nanoscience and BIOFABICS LDA, Porto, Portugal
3. **Lectures from Nobel Laureates:**
 - The 2025 Lectures in Biology and Chemistry: Re-engineering Biology: Directed Evolution of Enzymes and Cellular Pathways – Frances Arnold (*Nobel Prize in Chemistry 2018*) – Onassis Foundation at FoORTH, Greece
 - The 2025 Kafatos Lecture – May-Britt Moser (*Nobel Prize in Physiology or Medicine 2014*) – EMBL at The International Student Festival in Trondheim (ISFiT), Norway
4. **SCENTINEL:** Course on basic statistical concepts and experimental design
5. **Japanese Society for Chronobiology, JP:** International Chronobiology Summer School 2024
6. **Utrecht University, NL:** Utrecht Summer School on “Neural Circuit Development and Plasticity” – ECTS 2
7. **Institut Curie and Oncology Institute of Southern Switzerland (IOSI):** Drug Development in Oncology 2024 – ECTS 1

8. **FELASA Accreditation "Ref. 051/15"**: Care and use of laboratory animals: **mice, rats, zebrafish** - Covered all four **functions A, B, C, and D** according to the **Directive 2010/63/EU**
- Department of Biology, University of Crete, Heraklion, Greece - ECTS 5
FELASA Certificate ID: 051/15_5_2024
9. **FORTH** - Bulk and Surface Microscopy Techniques for Soft Matter as part of the "Twinning" program - FORGREENSOFT
10. **Jackson Laboratories, US**: Epigenetics
11. **National Institute of Nutrition, Hyderabad, India**: Anaemia; Food Fortification; NCDs; Immunisation; Basic nutrition
12. **Wellcome Sanger Institute, UK**: Bacterial Genomes: Disease Outbreaks and Anti-Microbial Resistance - Accredited by RCP and RCN, UK
13. **FutureLearn**: Plagues, Pestilence, Pandemics; Biosecurity and One Health
14. **Coursera**: Cancer Biology and Metastasis; COVID-19; Research publication ethics and techniques; Disease clusters; AI for everyone
15. **BDG Life Sciences**: Cancer Genomics; Cytogenetics and cytomics; Drug discovery and Design; Genome editing by CRISPR; Human genetic diseases; Immunoinformatics and computational Immunology; Transcriptomics.
16. **Scholarly writing and publication workshops**:
 - **ACS** - Author Workshop on Scholarly Publishing and Writing
 - **Wiley** - Workshop on Writing a publication-ready manuscript, understanding research integrity, ethics, and plagiarism
17. **Communication, dissemination and outreach workshops**:
 - **MEDNIGHT** - Training workshop for researchers - Communications and Outreach
 - **TClock4AD NT-3** Summer School on Public Engagement and Dissemination - Istituto di Ricerche Farmacologiche Mario Negri (IRFMN), Milan, Italy

Skills and Techniques

- **Cell Culture**:
 - Mammalian cell lines: SH-SY5Y, A549, Cal33, FaDu, HEK293, L929, 3T3-L1, AGS, NK-92
 - Microbial: *E. coli*, *S. typhimurium*, *H. pylori*
- **Model organism handling & experimentation**:
 - *Caenorhabditis elegans* - Nematode/Round worm
 - *Drosophila melanogaster* - Fruit fly
 - *Danio rerio* - Zebrafish
 - *Mus musculus* - Mouse
 - *Rattus norvegicus* - Rat

FELASA Accreditation Certificate ID: 051/15_5_2024 - Care and use of laboratory animals: mice, rats, zebrafish - Covered all four functions A, B, C, and D according to the Directive 2010/63/EU

- **Cell biology assays**: MTT Assay for testing metabolic activity and cytotoxicity
- **Behavioural assays**: *C. elegans*: Chemotaxis, Locomotory, Paralysis, Swimming, Thrashing and analysis with WORMLAB software

- **Bioanalytical techniques:** Spectrophotometry and Calorimetry, DLS, Zeta potential, ELISA, Centrifugation (High speed and Ultra speed)
- **Molecular Biology techniques:** PCR (q-RT and Gradient), Electrophoresis and extraction, Southern and Western Blotting
- **Recombinant DNA techniques:** Molecular cloning, Transformation, Transfection, Transduction, sh-RNA and RNAi-based knockdown of genes
- **Imaging techniques:** Microscopy (Confocal (CLSM), Fluorescence, Apotome, Ratiometric, Live cell imaging, Electron – SEM and TEM)
- **Biochemical techniques:** Quantitative and qualitative analysis of biomolecules (Protein/Amino acid, Carbohydrates, Lipid, Alkaloid analysis, and estimation)
- **Staining techniques:** Pathogenic, Mammalian: Nuclear and organellar staining, Thioflavin staining for amyloid and tau aggregates, Fungal staining by LPCB, etc.
- **Nano-techniques:** Synthesis and characterization of Polymeric nano formulations encapsulating drugs and allied compounds
- **Immunotechniques:** Immunoprecipitation, Co-IP, Immunodiffusion assays, PBMC isolation, Agglutination reaction tests, etc.
- **Computational techniques:** Data Analysis (Genome, Proteome, Transcriptome, and Metabolome), Sequence (Alignment and essential conversions), Sequencing (Sanger and NGS), Phylogenetic analysis and structure based predictions, Homology modelling (AlphaFold), MD Simulations (Gromacs, Maestro) Computer-aided drug design (Docking with Auto Dock), Visualization and analysis (Biovia DS, GraphPad Prism, ImageJ, PyMol, etc.), AI/ML based network training
- **Programming:** C and Advance C, Python, R

Research Interests

- **Generic domains:** Cell Biology, Biochemistry, Molecular Biology, Neurobiology, Systems Physiology, Developmental Biology, Genetics, and Evolution
- **Specific sub-domains:** Cell Death, Autophagy, Quality Control, Cellular Stress, Metabolism, Neurodegeneration, Ageing, Inflammation, and Circadian Rhythm.

Societies and Memberships

- ASBMB, ACS, APSN, BSAC, ESMO, FENS, HSFN, ILSN, ISGP, ISN, ISTAART, NAS, RSB, TPS – Member
- Elsevier, Space Generation Advisory Council – Advisory Panel Member

Outreach activities

- **Knowing Neurons Podcast:** Guest speaker discussing the Marie Curie PhD experience. Link: <https://open.spotify.com/episode/0gWREQq5XGiGAdM4D6gaPV>
- **EU Researchers Night 2025:** Represented the European commission in the EU Corner as a Marie Curie Doctoral Research Fellow working in Greece – Mytilene, Lesvos, Greece Supported by a travel grant from the MEDNIGHT consortium.

Delivered three public presentations:

1. Scientific: The Biological Clock and the importance of getting adequate sleep.
2. Research: *C. elegans* model to study neurodegenerative disorders such as Alzheimer's Disease.
3. General: EU Funding opportunities, programs, and initiatives.

- **EU Researchers Night 2024:** Presentation from Tavernarakis Lab – Neurogenetics and Ageing, FoRTH, Heraklion, Greece
- **Team Alchemist:** Worked on “Enzyme directed evolution of photosynthetic enzymes in *Prochlorococcus* sp. using biochemical synthetic editors.” This project was in league for the XPRIZE Carbon Removal competition organized by the Musk Foundation
- **Biotechnology Popularization and Skill Development Program (BPSDP) 2020:** Gave a talk on “Circadian Rhythms for Public Awareness and Perception” – Dept. of Biotechnology and Medical Engineering, NIT Rourkela, India

Hobbies and Interests: Creative writing, Graphic designing (Inkscape), Philately, Teaching & mentoring, Travelling (Google: Expert level 8 with 9.4 Mn+ views), Blogging, Vlogging, Photography, Gaming (Streamer: Atosmicon), Foodie (Zomato: Expert level in Bhubaneswar), Open-Source contributor, Programmer (Certified Advance C), Management skills (Conclaves and Fests), Public speaking, and more!

Languages: English (TOEFL iBT: 109/120 Advanced), Hindi, Odia (Native), Greek (Beginner)

References

1. Prof. Nektarios Tavernarakis

PI of: “**Neurogenetics and Ageing Lab**” | **Position:** Professor and Research Director

Affiliations:

1. Foundation for Research and Technology Hellas, Heraklion 70013, Crete, Greece (Research Director)
2. Department of Medicine, University of Crete, Heraklion 70013, Crete, Greece (Professor)

Contact: Phone: +30 6972088585 and **Email:** tavernarakis@imbb.forth.gr

Information: Prof. Tavernarakis is my PhD **research supervisor** at FoRTH.

2. Prof. Sujit Kumar Bhutia

PI of: “**Cancer and Cell Death Lab**” | **Position:** Professor

Affiliation: Department of Life Science, NIT Rourkela, Odisha - 769008, India

Contact: Phone: +91 8895360221 and **Email:** sujitb@nitrkl.ac.in

Information: Prof. Bhutia was my **research supervisor** for the master's project at NITR.

Declaration

“I hereby declare that all the details mentioned are in accordance with the truth and fact as per my knowledge and I hold the responsibility for the authenticity of the same.”

Mrutyunjaya Panda

Date: 01 December 2025 (Monday)

Place: Barcelona, Catalonia, Spain