

CURRICULUM VITAE



1. Name (Mr): **Meesala Krishna Murthy**

2. Designation: **Ph.D**

3. Complete Postal Addresses and PIN: **MIG-33, Aiginia Housing board colony,
Khandagiri, Bhubaneswar, Odisha-751030**
Telephone Number(s), **8787315302**, E-mail: **krishnameesala6@gmail.com**

4. Date of birth: **05/06/1989**

5. PAN Card Number: **DJBPM8397H**

6. AADHAR Card Number: **510486634380**

7. Educational Qualification: Degrees obtained

Degree	Institution	Field(s)	% of marks	Year
10 th Class	BSE- A.P.	Biology, Mathematics, Hindi, English, Social studies	77.16	2004
+ 2 Science	Intermediate Board- A.P.	Botany and Zoology	79.90	2006
B.Sc (Triple Major)	Andhra University	Microbiology, Biotechnology and Biochemistry	71	2006-2009
M.Sc	Utkal University	Biotechnology	69.80	2010-2012
M.Phil	Mizoram Central University	Zoology	80.75	June 2016-January 2018
PhD	Mizoram Central University	Zoology	-	PhD Thesis submitted (Degree may award in the next month)

8. Thesis:

M.Phil Dissertation Title: Health Risk Assessment of Tobacco Users among Mizo Population

PhD Thesis Title: Molecular Phylogeny of Longhorn Beetles from Northeast India Inferred by Metabarcoding and Mitochondrial Metagenomics

9. Research specialization

(Major scientific fields of interest)

Bioinformatics and Molecular systematics, Next Generation Sequencing data analysis, Barcoding data analysis, NGS platforms like Hi Seq, Mi Seq, Novo Seq, Oxford Nanopore Sequencer operation, Nanopore sequencer data analysis, Molecular phylogeny, Phyto-medicine, Toxicology, Stress Physiology, Molecular Entomology, Human Genetics, Wildlife Ecology and Plant Tissue Culture.

10. Other Experience (Apart from Research)

Duration	Position	Institution	Particulars of work done
August 2013 - May 2016	Assistant Professor	Department of Biotechnology, Academy of Management and Information Technology, Affiliated to Utkal University, Bhubaneswar, Odisha, India.	B.sc and PG teaching and laboratory demonstration

11. Scholarships/awards, if any:

Junior Research Fellow Fellowship from DBT (Department of Biotechnology), Government Of INDIA, **during June 2016- June 2017.**

Project Fellow Fellowship from DST- SERB (Department of Science and Technology- Science and Engineering Research Board), Government of INDIA, **during June 2018- Continue.**

12. Publications and also papers in press

Research Paper Publications			
Research Paper Title & Authors	Journal Name	Indexing	Impact Factor
Meesala Krishna Murthy, Pratima Khandayataray, Samprit Padhiary, and Dibyaranjan Samal (2022). A review on chromium health hazards and molecular mechanism of chromium bioremediation.	Reviews on Environmental Health	SCI-E, SCOPUS, WEB OF SCIENCE	3.458
Pratima Khandayataray, Meesala Krishna Murthy, Abinash Giri, Dibyaranjan Samal and Saeed Ahmed Laskar (2022). Genetic diversity analysis of the wild edible mushroom <i>Termitomyces heimii</i> by using RAPD markers.	Research Journal of Biotechnology	SCOPUS, WEB OF SCIENCE	0.45
Bidanchi Momin, Sanasam Sanjeev, Meesala Krishna Murthy, Maurya Khushboo, Antioxidative, Vikas Kumar Roy and Guruswami Gurusubramanian (2022). Anti-inflammatory and anti-apoptotic action of ellagic acid against lead acetate induced testicular and hepato-renal oxidative damages and pathophysiological changes in male Long Evans rats.	Environmental Pollution	SCI-E, SCOPUS, WEB OF SCIENCE	8.071
Meesala Krishna Murthy, Chandra Sekhar Mohanty, and Rojalin Pattanayak (2022). Assessment of toxicity in the freshwater tadpole <i>Polypedates maculatus</i> exposed to silver and zinc oxide nanoparticles: A multi-biomarker approach.	Chemosphere	SCI-E, SCOPUS, WEB OF SCIENCE	7.086
Meesala Krishna Murthy, Pratima Khandayataray, Malsawmdawngzuali Tara, Pori Buragohain, Abinash Giri, Guruswami Gurusubramanian (2022). Optimisation of DNA isolation and PCR techniques for beetle (Order: Coleoptera) specimens.	International Journal of Tropical Insect Science	SCI-E, SCOPUS, WEB OF SCIENCE	0.774
Maurya Khushboo, Meesala Krishna Murthy, Maibam Sunita Devi, Sanasam Sanjeev, Kalibulla Syed Ibrahim, Nachimuthu Senthil Kumar, Vikas Kumar Roy and Guruswami Gurusubramanian (2017). Testicular toxicity and sperm quality following copper exposure in Wistar albino rats: ameliorative potentials of L-carnitine.	Environmental Science & Pollution Research	SCI-E, SCOPUS, WEB OF SCIENCE	4.223
Sanasam Sanjeev, Bidanchi Momin, Meesala Krishna Murthy, Guruswami Gurusubramanian and Vikas Kumar Roy (2018). Influence of ferulic acid consumption in ameliorating the cadmium-induced liver and renal oxidative damage in rat.	Environmental Science & Pollution Research	SCI-E, SCOPUS, WEB OF SCIENCE	4.223
Sanasam Sanjeev, Meesala Krishna Murthy, Maibam Sunita Devi, Maurya Khushboo, Zothanmawii Renthlei1, Kalibulla Syed Ibrahim, Nachimuthu Senthil Kumar ,Vikas Kumar Roy and Guruswami Gurusubramanian (2018). Isolation, characterization, and therapeutic activity of bergenin from marlberry (<i>Ardisia colorata</i> Roxb.) leaf on diabetic	Environmental Science & Pollution Research	SCI-E, SCOPUS, WEB OF SCIENCE	4.223

testicular complications in Wistar albino rats.			
Lalrinzuali Sailo, Meesala Krishna Murthy , Khandayataray Pratima, Vikas Kumar Roy and Guruswami Gurusubramanian (2018). Monosodium Glutamate Toxicity and the Possible Protective Role of L–Carnitine.	Science and Technology	UGC CARE Listed Journal	-
Dibyanjan Samal, Nibedita Sahoo1, Meesala Krishna Murthy (2018). A Program for Multiple Sequence Alignment by Star Alignment.	International Journal of Electrical, Electronics and Computers	UGC CARE Listed Journal	2.56
Meesala Krishna Murthy , Pratima Khandayataray, Dibyanjan Samal and Ramachandra Laha (2019). Effects of Surface Sterilizing Agents, Sucrose and Plant Growth Regulatory Hormone Concentration Levels on Micropropagation of <i>Bacopa monnieri</i> L.	Asian Journal of Research in Botany	Indexed in Publons and Web of Science	-
Pratima Khandayataray, Meesala Krishna Murthy and Dibyanjan Samal (2019). Qualitative and quantitative phytochemical screening, antioxidant and anti-inflammatory activities of acetone extract of <i>Brassica juncea</i> L. leaf.	Asian Journal of Research in Biochemistry	Indexed in Publons and Web of Science	-
Pratima Khandayataray, Meesala Krishna Murthy and Dibyanjan Samal (2020). Phytochemical and biological screening of three selected ethnomedicinal plants from Mizoram, India.	International Journal of Pharmaceutical Science and Research	SCOPUS & WEB OF SCIENCE	-
Abinash Parida, Meesala Krishna Murthy & G.S. Solanki (2020). Mating behavior of the Yellow-throated Marten <i>Martes flavigula</i> (Mammalia: Carnivora: Mustelidae).	Journal of Threatened Taxa	SCOPUS	0.5
Samprit Padhiary, Dibyanjan Samal, Pratima Khandayataray and Meesala Krishna Murthy (2020). A systematic review report on tobacco products and its health issues in India.	Reviews on Environmental Health	SCI-E, SCOPUS, WEB OF SCIENCE	3.458
Meesala Sravani, Aggala Maheswararao and Meesala Krishna Murthy (2020). Robust detection of video text using an efficient hybrid method via key frame extraction and text localization.	Multimedia Tools and Applications	SCI-E, SCOPUS, WEB OF SCIENCE	2.757
Abinash Giri, Pratima Khandayataray, Meesala Krishna Murthy , and Dibyanjan Samal (2021). Biochemical and molecular identification of lipolytic bacteria isolated from beverage industrial wastewater and optimization of lipase secreting bacteria.	Biomass Conversion and Biorefinery	SCI-E, SCOPUS, WEB OF SCIENCE	4.987
Janmejay Sethy, Netrapal Singh Chauhan, Meesala Krishna Murthy (2021). Estimating mammalian abundance and occupancy in tropical forest indian himalaya, dampa tiger reserve, mizoram, india.	International Journal of Conservation Science	SCI-E, SCOPUS, WEB OF SCIENCE	0.54

13. Books and Book chapters Publications

- Meesala Krishna Murthy** and Pratima Khandayataray (2019). Invitro Propagation of *Bacopa monnieri* – a medicinal plant. PP. 1-55. Editor: z catana, **LAP LAMBERT ACADEMIC PUBLISHLING**. Germany. **ISBN: 978-3-659-54720-1 (Germany)**.
- Meesala Krishna Murthy**, Dibyanjan Samal, and Pratima Khandayataray (2019). A Program for Multiple Sequence Alignment by STAR Alignment. PP. 1-54. Editor: z catana, **LAP LAMBERT ACADEMIC PUBLISHLING**. Germany. **ISBN: 978-620-0-24895-4 (Germany)**.

3. **Meesala Krishna Murthy**, Dibyaranjan Samal, and Pratima Khandayataray (2019). Insilico Homology Modelling and Docking Study of TCTP of *Labeo rohita*. PP. 1-44. Editor: z catana, **LAP LAMBERT ACADEMIC PUBLISHING**. Germany. **ISBN: 978-620-0-26989-8 (Germany)**.

14. **Conferences/Workshops/Presentations**

- 1) Short Term Course on **“Research Methodology for Research Scholars”**, held during 21-26 June 2016. Organised by UGC-HRDC, Mizoram University, Mizoram.
- 2) International Workshop/Training on **“Cancer Epidemiology”** Mizoram 2016, held during 29-30 November, Organised by Department of Biotechnology, Mizoram University Sponsored by State Biotech-hub facility, Department of Biotechnology (DBT), New Delhi.
- 3) Paper presented in National Seminar on **“Biodiversity, Conservation and Utilization of Natural Resources with reference to Northeast India (BCUNRNEI)”**, held during 30-31 march 2017.
- 4) National level Workshop on **“Biostatistics and Bioinformatics”** held during 1-7 September Organised by Department of Biotechnology, Mizoram University Sponsored by Bioinformatics Infrastructure Facility, Department of Biotechnology (DBT), and New Delhi.
- 5) International Workshop/Training on **“Snakebite Management”** Mizoram 2017, held during 27 June -3 July, Organised by Department of Biotechnology, Mizoram University Sponsored by State Biotech-hub facility, Department of Biotechnology (DBT), New Delhi.
- 6) The work shop on **“Mechanism of adaptation in the Temporal Environment”**, held during May 23-25, 2017. Organized at: Department of Zoology, Mizoram University, Aizawl Mizoram.
- 7) The work shop on **“Human Genetics”**, held during February 27-28, 2018. Organized at: Department of Human Genetics, Tripura University, Agartala, Tripura.
- 8) National seminar on **“Conservation and sustainable use of medicinal and aromatic plants”** held during September 13-14, 2018. Organized at: Department of Forestry, Mizoram University, Aizawl, and Mizoram.
- 9) Paper presented in The 12th Annual Convention of ABAP & International Conference on **“Biodiversity, Environment and Human Health: Innovations and Emerging Trends”** held during 12-14 November 2018. Organized at: School of Life science, Mizoram University, Aizawl, and Mizoram.
- 10) Paper presented in International Conference on **“Chemistry and Environment Sustainability”** held during 19-21 February 2019. Organized at: Department of Chemistry, Mizoram University, Aizawl, and Mizoram.
- 11) Basic Research Training Workshop on **“Understanding Human Disease and Improving Human Health Using Genomics-Driven Approaches”** held during 10-16, March 2019. Co-organized by National Institute of Biomedical Genomics (NIBMG) & Tripura University. Organized at: Department of Human Physiology, Tripura University, Agartala, and Tripura.
- 12) National workshop on **“Bioinformatics for Zoologists”** held during August 26-31, 2019. Organized at: Department of Biotechnology, Mizoram University, Aizawl, and Mizoram.
- 13) Advanced Research Training Workshop on **“Understanding Human Disease and Improving Human Health Using Genomics-Driven Approaches”** held during 15-23, October 2019. Organized by National Institute of Biomedical Genomics (NIBMG). Organized at: NIBMG, Kalyani, and Kolkata.
- 14) Online Training on **“Turnitin Similarity Check Software”** held during September 3, 2019. Organized by Mizoram University. Organized at: MZU Auditorium, Mizoram University, Aizawl, and Mizoram.

- 15) National workshop on “***Ethics in Research and Plagiarism (ERPP)***” held during October 3, 2019. Organized at: Department of Physics, Mizoram University, Aizawl, and Mizoram.
- 16) Paper presented in National Conference On “***Emerging Trends in Environmental Research***” held during 31st October-2nd November 2019. Organized by Pachhunga University College, Mizoram University, Aizawl, and Mizoram.
- 17) Poster presented in International conference on “***Recent Advances in Animal Sciences***” held during November 6-8, 2019. Organized by Department Zoology, Pachhunga University College, Mizoram University, Aizawl, and Mizoram.
- 18) UGC-STRIDE Refresher Course (Multidisciplinary) on “***Research Methodology: Research Ethics, Methods, Skills, Writing and Communication***” held from 19 August, 2020 to 01 September, 2020. Organized by Mizoram University, Aizawl, Mizoram.
- 19) Poster presented in National Seminar on “***Sustainable Development with Women Empowerment***” held during March 2-3, 2022. Organized by Indian Science Congress Bhubaneswar Chapter by KIIT University and OUAT University, Bhubaneswar, Odisha.
- 20) Oral presentation in National Seminar on “***Sustainable Development with Women Empowerment***” held during March 2-3, 2022. Organized by Indian Science Congress Bhubaneswar Chapter by KIIT University and OUAT University, Bhubaneswar, Odisha.

15. **Conferences/Workshop/Webinars Organizing Committee Member**

- 1) Acted as a one of the **Organizing Committee Members** in The 12th Annual Convention of ABAP & International Conference on “***Biodiversity, Environment and Human Health: Innovations and Emerging Trends***” held during 12-14 November 2018. Organized at: School of Life science, Mizoram University, Aizawl, and Mizoram.
- 2) Acted as a one of the **Organizing Committee Members** in The Webinar on “**Toxins: the Source of Inspiration for Fascinating Basic and Applied Research**” held on 5th September, 2020 @ 11.00 AM, Organized by Mizoram University, Aizawl, Mizoram.
- 3) Acted as a one of the **Organizing Committee Members** in The Webinar on “**Publish to Flourish**” held on 2nd July, 2020 @ 09.00 AM, Organized by Mizoram University, Aizawl, Mizoram.
- 4) Acted as a one of the **Organizing Committee Members** in The Webinar on “**Science Communication**” held on 29th May, 2020 @ 5.00 PM, Organized by Mizoram University, Aizawl, Mizoram.
- 5) Acted as a one of the **Organizing Committee Members** in The Webinar on “**Principles in Cell Signaling**” held on 4th, 11th & 18th May, 2020 @ 4:00 PM, Organized by Mizoram University, Aizawl, Mizoram.
- 6) Acted as a one of the **Organizing Committee Members** in The UGC-STRIDE Refresher Course (Multidisciplinary) on “***Research Methodology: Research Ethics, Methods, Skills, Writing and Communication***” held from 19 August, 2020 to 01 September, 2020. Organized by Mizoram University, Aizawl, Mizoram.
- 7) Acted as a one of the **Organizing Committee Members** in The UGC-STRIDE Advanced Training Program on “***Research Methodology: Statistical Tools for Data Analysis and Interpretation***” held from 22 September, 2020 to 09 October, 2020. Organized by Mizoram University, Aizawl, Mizoram.

16. **Resource person in Conferences/Workshop/Webinars**

- 1) I acted as Resource person “**UGC STRIDE TRAINING COURSE ON MOLECULAR BIOLOGY TECHNIQUES: PRACTICAL TRAINING TO INTERNS**” from 19th May, 2021 – 30th May, 2021.

17. Reviewer

I acted as a one of the reviewers for three international research articles.

- 1) **Journal of Food Biochemistry**
- 2) **Journal of Biotechnic & Histochemistry**
- 3) **European Food Research and Technology**

18. Technical details:

Regarding my major skills I am giving under

Bioinformatics tools and softwares, Western blotting, QRT PCR, Sanger's sequencing and data analysis, NGS and data analysis, Nanopore sequencing and data analysis, DNA Fragmentation analysis, RFLP, RAPD, Primer Design, Histology, Immunohistochemistry, TUNEL assay, SPSS software, R software, Fluorescent microscope, Basic idea on cell lines (3 months I have worked in a project), Spectroscopic analysis, HPLC data analysis, Hormonal analysis, Antioxidant enzymes analysis spectroscopically and native- PAGE, SDS-PAGE, PCR, Semi QRT PCR. DNA and RNA isolation, DNA and RNA library preparation, Gel doc operation, ELISA plate reader, ChemiDoc, 2D Gel electrophoresis, Cryostat and Microtomy etc.

19. Other information, if any:

I am good at project proposals development and writing as well as paper writing.