

AKASH PHILLIP

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Address: H.no. 237 CMS Mission Compound, Devnagar, Meerut, 250001

EDUCATION

MSc IIMT University, Master of Science (Biotechnology)

July 2024

Thesis: Study on Anaerobic Co-Digestion and Key parameters for biogas production from fruit waste.

Supervisor: Dr. Sheelendra Mangal Bhatt

BSc Swami Vivekanand Subharti University

June 2021

Bachelor of Science (Biotechnology)

EXPERIENCE

❖ **Content Editor** (Freelance)

June 2024 – Present

Journal of Agriculture Biotechnology & Applied Sciences (JABAAS), Remote

Responsibilities:

- Conduct editing, proofreading, and formatting of scientific manuscripts and articles to ensure clarity, accuracy, and compliance with journal guidelines.
- Assist in the peer review process by identifying suitable experts within the academic community for manuscript evaluation.
- Collaborate with authors and reviewers to facilitate the publication process.
- Compose and manage professional correspondence with contributors and editorial staff, including emails.
- Assist in maintaining the journal's content management system and ensuring timely publication schedules.

Skills: Technical Writing and Editing

- Attention to Detail
- Communication and Collaboration
- Time Management

❖ **Dissertation**, IIMT University, Meerut

Feb 2024 - July 2024

Supervisor: Dr. Sheelendra Mangal Bhatt

Skills: During this project, I had hands-on experience with renewable energy generation. Experience in optimizing biogas production from organic waste, sustainable conversion of fruit waste and cow manure into energy, focusing on eco-friendly energy solutions, Ability to analyze and interpret experimental data, and experience in reporting research findings.

❖ **Internship Trainee**

Jul 2023 - Aug 2023

BioTecNika, Remote

Skills: During this internship, I gained hands-on experience in:

- Database Access: Retrieved and utilized data from NCBI, EMBL, DDBJ, PUBMED, Google Scholar, and Scopus.
- Publication Writing: Authored and prepared scientific manuscripts for publication.
- Review Articles: Contributed to the writing and editing of scientific reviews.
- Cheminformatics: Utilized tools for analyzing chemical data.
- KEGG: Analyzed metabolic pathways using KEGG database.
- Cytoscape: Used for visualizing complex networks.
- Molecular Docking: Conducted simulations to predict the binding affinity between molecules.
- Computer-Aided Design (CAD): Designed and modeled structures related to the project.

PUBLICATIONS

Book Chapters

1. Nanoscale solutions for diagnosing and managing plant diseases. In Horticulture Research: Theory and Practice (pp. 1-14). DvS Scientific Publication. 2024. ISBN 9789366881263. <https://www.researchgate.net/publication/384281799> CHAPTER
[1 Nanoscale Solutions for Diagnosing and Managing Plant Diseases](https://www.researchgate.net/publication/384281799)
2. Waste-to-Value: Converting Agricultural Waste into Valuable Resources. In Transforming Agriculture in the 21st Century. ND Global Publication House, pp. 310-326. ISBN: 9788197337925. <https://www.researchgate.net/publication/384283403> CHAPTER - 14 Waste-to-Value_Converting Agricultural Waste into Valuable Resources

Journal Publications

1. Enhanced biogas production using anaerobic co-digestion of animal waste and food waste: a review. Journal of Scientific Research and Reports, 30(8), 761–781. <https://doi.org/10.9734/jsrr/2024/v30i82297>
2. Algal Biofuels: A Comprehensive Review and Analysis. Journal of Applied Life Sciences International 27(5):52-72. <https://doi.org/10.9734/jalsi/2024/v27i5659>.
3. Innovative Approaches in Biodiesel Production from Waste Cooking Oils and Waste Animal Fats. International Journal for Research in Applied Science and Engineering Technology, 12(9), 448–458. <https://doi.org/10.22214/ijraset.2024.64203>

4. Bioplastics from Waste Biomass: Paving the Way for a Sustainable Future. International Journal for Research in Applied Science and Engineering Technology, 12(9), 518–533. <https://doi.org/10.22214/ijraset.2024.64225>
5. Innovative biotechnological approaches for plastic degradation: A pathway to sustainable waste management. International Journal of Science and Research Archive, 13(1), 2228–2243. <https://doi.org/10.30574/ijjsra.2024.13.1.1861>
6. Environmental nanoparticles and respiratory health in vertebrates: Analyzing emerging health risks. International Journal of Zoology and Applied Biosciences, 9(6), 66-77. <https://doi.org/10.55126/ijzab.2024.v09.i06.011>
7. Study on anaerobic co-digestion of cow dung and fruit waste for biogas production. Journal of Biological Research and Reviews, 2(2), 121-129. <http://dx.doi.org/10.5455/JBRR.20250316121948>
8. Analysis of Arhar Stem (Cajanus cajan) for Bio-Ethanol Production Using Fermentation Process. Journal of Biological Research and Reviews, 2 (3), 139-148. <http://dx.doi.org/10.5455/JBRR.20250403013034>

WORKSHOPS

- **Big Data Biology National workshop**

BioTecNika, Remote, 2024

Learn how to use tools like R, Python, and MATLAB for biological data analysis. Gained insights on how machine learning can be used to make predictions and discoveries in biology.

- **AI in Drug Discovery National Workshop**

BioTecNika, Remote, 2023

Learn about the latest advancements in using AI for drug discovery, including areas like virtual screening, generative chemistry, and machine learning-based drug design.

- **mRNA Vaccine Development & Delivery National Workshop**

BioTecNika, Remote, 2023

Learn about the latest advancements in mRNA vaccine technology, including mRNA design, delivery systems, and clinical trials.

CERTIFICATIONS

Soft Skill Development

NPTEL Online Certification

Jan-March 2023

HONORS AND AWARDS

Certificate of Participation

2023

Issued by the government of India Ministry of Commerce and Industry Department for the promotion of industry and internal trade national IP awareness mission office of the controller general of patents, designs, and trade

Certificate of Appreciation

2020

Issued by Keral Verma Subharti College of Science, Swami Vivekanand Subharti University for passing the quiz with 85% marks on the occasion of Observance of Vigilance Awareness Week, 2020, organized by Keral Verma Subharti College of Science, Swami Vivekanand Subharti University, Meerut, during 27 October - 2 November 2020.

Certificate of Merit

2020

This event is Organized by the Department of Computer Application, Swami Vivekanand Subharti University, Meerut during the lockdown period to combat COVID-19 by creating Awareness about Cleanliness, Sanitization & Social Distancing.

COMPUTER SKILLS

- Proficient in Microsoft Office Suite (Word, Excel, PowerPoint)
- Experienced in creating presentations using Microsoft PowerPoint
- Adobe Creative Suite:
- Photoshop: Image editing, photo manipulation, and graphic design.
- Illustrator: Vector graphics creation and logo design.
- InDesign: Layout design for print and digital media.

LANGUAGES

English: Professional working proficiency

Spanish: Elementary proficiency

PERSONAL DETAILS

- Name : Akash Phillip
- Father's Name : Mr. Anil Kumar Phillip
- Date of Birth : 15/06/2000
- Gender : Male
- Marital status : Single
- Nationality : Indian

REFERENCES

1. Dr. Navneet Sharma

Dean

Department of Life Science, IIMT University

Email: navneet.sh15@gmail.com

2. Dr. S. M Bhatt

Associate Professor

Department of Biotechnology, IIMT University

Email: drsmbhatt@gmail.com

DECLARATION

I hereby declare that the given information is correct and complete to the best of my knowledge and belief.