

Metagenomics Internship Topics

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50
Active Categories

15
Focused Areas

Internships
Internships

Metagenomics Internship Categories

AI Shotgun Metagenomics Analysis Research https://internships.nthrys.com/metagenomics/ai-shotgun-metagenomics-analysis-research	Machine Learning Metagenome Assembly Research https://internships.nthrys.com/metagenomics/machine-learning-metagenome-assembly-research
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Fermentation Microbiota Optimization Study https://internships.nthrys.com/metagenomics/fermentation-microbiota-optimization-study	Microbial Stress Response Gene Expression https://internships.nthrys.com/metagenomics/microbial-stress-response-gene-expression

Metagenomics Internship Topics and Focused Areas

Machine Learning Metagenome Assembly Research

- Deep Learning Models for Metagenomic Sequence Assembly
- Graph Neural Networks for Metagenomic De Bruijn Graph Construction
- Binning and Classification of Assembled Contigs Using Machine Learning
- Error Correction in Long-Read Metagenomic Sequences Using Hybrid ML Approaches
- Automated Quality Assessment and Parameter Optimization for Assembly Pipelines

AI Soil Metagenomics Research

- Microbial Community Assembly and Succession in Soil
- Functional Gene Annotation and Metabolic Pathway Prediction
- Machine Learning Models for Soil Microbiome Classification
- Antibiotic Resistance Gene Detection and Characterization in Soil
- Soil-Plant Microbiome Interactions and Host-Associated Microbial Networks

Plant Microbiome Metagenomics Study

- 16S rRNA Gene Amplicon Sequencing and Bacterial Community Analysis
- Shotgun Metagenomic Assembly and Functional Gene Annotation
- Phytobiome Network Analysis and Plant-Microbe Interaction Prediction
- Metatranscriptomics and Microbial Gene Expression in Plant Tissues
- Metagenomic Data Visualization and Comparative Microbiome Analysis

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