Transcriptomics Winter Internships

Participate in Transcriptomics winter internships to explore cold-stress impacts on gene expression, focusing on how cold environments influence transcriptomics, RNA splicing, and gene regulatory networks, and the use of transcriptomics in studying cold-stress responses in plants, animals, and microbes.

Focussed Areas under Transcriptomics Winter Internship

1. Cold-stress impacts on gene expression profiling
2. Transcriptomics of cold-stress responses in plants and animals
3. Cold-induced changes in RNA splicing and regulation
4. Single-cell transcriptomics under cold-stress conditions
5. Cold-environment RNA sequencing for studying gene regulation
6. Cold-stress transcriptomics in disease and immune response
7. Role of non-coding RNA in cold-stress gene regulation
8. Applications of cold-stress transcriptomics in agriculture
9. Cold-stress transcriptomics in microbial adaptation
10. Long non-coding RNA (lncRNA) in cold-stress responses
11. Cold-stress transcriptomics in environmental adaptation
12. Transcriptomics of cold-stress-induced regulatory networks
13. Post-transcriptional modifications under cold conditions
14. RNA editing in cold-adapted organisms
15. Cold-stress gene expression in personalized medicine
16. Quantitative transcriptomics under cold-stress conditions
17. Cold-stress transcriptomics in neurobiology and brain function
18. High-throughput cold-stress transcriptomics techniques
19. Bioinformatics tools for cold-stress transcriptome analysis
20. Ethical considerations in cold-stress transcriptomics research

Protocols Covered across various focussed areas under Transcriptomics Winter Internship

1. Protocols for cold-stress gene expression profiling using RNA-seq
2. Techniques for studying RNA splicing under cold-stress conditions
3. Single-cell transcriptomics workflows for cold environments
4. Protocols for RNA editing in cold-adapted organisms
5. Quantitative PCR techniques for cold-stress transcriptomics
6. High-throughput cold-stress transcriptomics data analysis protocols

7. Bioinformatics tools for cold-stress transcriptome data analysis
8. Techniques for integrating cold-stress transcriptomics with other omics
9. Protocols for studying non-coding RNA in cold-stress responses
10. Cold-stress transcriptomics workflows for disease and immune response

Duration: 5, 10, 15, 20, and 30 Days

Note: Please cross confirm whether internship slots for this field are available before joining.

Click Here for Transcriptomics Winter Internship Fees

Application Process and Other info