

## **Phylogenetics Winter Internships**

Participate in Phylogenetics winter internships to explore cold-stress impacts on evolutionary pathways, focusing on cold-induced genetic adaptations, molecular evolution in cold environments, and the use of phylogenetic analysis to trace species evolution under cold-stress conditions.

### **Focussed Areas under Phylogenetics Winter Internship**

1. Cold-stress effects on molecular evolution and speciation
2. Genetic adaptations to cold environments in evolutionary history
3. Cold-stress phylogenetics in biodiversity and conservation
4. Next-generation sequencing for cold-environment phylogenetic studies
5. Phylogenetics of cold-adapted species and genetic variation
6. Cold-stress molecular dating techniques in phylogenetics
7. Cold-environment phylogenomics and comparative genomics
8. Phylogenetic analysis of ancient DNA in cold environments
9. Cold-stress host-parasite co-evolution studies
10. Microbial and viral evolution under cold-stress conditions
11. Bioinformatics tools for constructing phylogenetic trees in cold environments
12. Phylogenetic analysis of extinct species in cold habitats
13. Cold-stress phylogenetics in plant and animal evolution
14. Phylogenetic analysis in drug resistance under cold conditions
15. Cold-environment functional genomics integrated with phylogenetics
16. Epigenetics and evolutionary processes in cold environments
17. Cold-stress phylogenetics of domesticated species and crops
18. Applications of phylogenetics in ecological studies under cold conditions
19. Cold-stress genetic variation in evolutionary pathways
20. Phylogenetics in tracing species evolution in extreme environments

### **Protocols Covered across various focussed areas under Phylogenetics Winter Internship**

1. Cold-stress DNA extraction and sequence analysis protocols
2. Phylogenetic tree building under cold-stress conditions
3. Molecular dating techniques for cold-environment evolutionary studies
4. Bioinformatics tools for phylogenetic analysis in cold environments
5. Comparative genomics protocols in cold-stress phylogenetics
6. Next-generation sequencing workflows for cold-environment phylogenetic studies

7. Protocols for studying ancient DNA in cold environments
8. Host-parasite co-evolution analysis under cold-stress conditions
9. Microbial and viral evolution protocols for cold environments
10. Functional genomics and phylogenetics integration under cold stress

**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 Phylogenetics Winter Internship Fees](#)

Application Process and Other info