

Cellular Microbiology Summer Internships

Join Cellular Microbiology summer internships to study the interactions between microbes and host cells, focusing on pathogen-host cell interactions, microbial pathogenesis, and cellular signaling in infectious diseases.

Focussed Areas under Cellular Microbiology Summer Internship

1. Pathogen-host cell interactions
2. Microbial invasion and intracellular survival mechanisms
3. Cellular signaling in response to microbial infections
4. Host immune response to bacterial and viral infections
5. Microbial manipulation of host cellular pathways
6. Virulence factors and cellular microbiology
7. Bacterial secretion systems and host cell entry
8. Intracellular bacterial survival strategies
9. Host cell autophagy and microbial infection
10. Cellular responses to viral infections
11. Cytoskeletal dynamics during microbial infection
12. Microbe-induced cell death pathways
13. Cellular defense mechanisms against pathogens
14. Role of endocytosis in pathogen entry
15. Microbial toxins and their cellular effects
16. Host-pathogen interactions in tissue cultures
17. Cellular microbiology of parasitic infections
18. Microbial modulation of host immune signaling
19. Cellular mechanisms of pathogen-induced inflammation
20. Antiviral and antibacterial cellular responses

Protocols Covered across various focussed areas under Cellular Microbiology Summer Internship

1. Cell culture techniques for host-pathogen studies
2. Microscopy of host-microbe interactions
3. Bacterial invasion assays in host cells
4. Intracellular bacterial survival assays
5. Cellular signaling pathway analysis in infection
6. Autophagy assays in response to microbial infections

7. Cytoskeletal dynamics imaging in infected cells
8. Host-pathogen interaction modeling in vitro
9. Endocytosis assays in microbial invasion
10. Microbial toxin assays on host cells

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

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

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Application Process and Other info