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[100 Biology Research Topics Ideas For Students](#)

Finding great topics for a study can be challenging, and based on what has been discussed, finding a good topic to be able to create a high-quality biology research paper is even more difficult. Your biology topic must be interesting, appealing, and more importantly, relevant to both the academe and the world.

Protists are by far the most diverse and abundant eukaryotes in soils. Nevertheless, very little is known about individual representatives, the diversity and community composition and ecological functioning of these important organisms. For instance, soil protists are commonly lumped into a single functional unit, i.e. bacterivores. This work tackles missing knowledge gaps on soil protists and common misconceptions using multi-methodological approaches including cultivation, microcosm experiments and environmental sequencing. In a first part, several new species and genera of amoeboid protists are described showing their immense unknown diversity. In the second part, the enormous complexity of soil protists communities is highlighted using cultivation- and sequence-based approaches. In the third part, the present of diverse mycophagous and nematophagous protists are shown in functional studies on cultivated taxa and their environmental importance supported by sequence-based approaches. This work is just a start for a promising future of soil Protistology that is likely to find other important roles of these diverse organisms.

Nanotechnology is a fast-evolving discipline that already produces outstanding basic knowledge and industrial applications for the benefit of society. It is a new emerging and fascinating field of science, that permits advanced research in many areas. The first applications of nanotechnology mainly concerned material sciences; applications in the agriculture and food sectors are still emerging. Food science nanotechnology is an area of rising attention that unties new possibilities for the food industry. Due to the rapid population growth there is a need to produce food and beverages in a more efficient, safe and sustainable way. The application of nanotechnology in food has also gained great importance in recent years in view of its potential application to improve production of food crops, enhance nutrition, packaging and food safety overall. The new materials, products and applications are anticipated to bring lots of improvements to the food and related sectors, impacting agriculture and food production, food processing, distribution, storage, sanitation as well as the development of innovative products and sensors for effective detection of contaminants. Therefore, nanotechnology present with a large potential to provide an opportunity for the researchers of food science, food microbiology and other fields, to develop new tools for incorporation of nanoparticles into food system that could augment existing functions and add new ones. However, the number of relative publications currently available is rather small. The present Research Topic aims to provide with basic information and practical applications regarding all aspects related to the applications of nanotechnology in food science and food microbiology, namely, nanoparticle synthesis, especially through the eco-friendly perspective, potential applications in food processing, biosensor development, alternative strategies for effective pathogenic bacteria monitoring as well as the possible effects on human health and the environment.

"In 2009, the third edition of the Encyclopedia of Microbiology and the Desk Encyclopedia of Microbiology published, providing customers with a six-volume compendium and condensed reference, respectively, on the vast subject of microbiology. This derivative will compile thirty-two chapters from the original MRW relating to microbial ecology (the study of how microbes interact with each other and their environments) and present them in a single thematic volume that will appeal to researchers, technicians, and students in the environmental science and microbial ecology fields. Classic and cutting-edge entries on topics including air quality, marine habitats, food webs, and microbial adhesion will be fully updated by their original authors (when possible), providing a up-to-date and affordable option to those with focused research interests"--Provided by publisher.

Marine and freshwater polar environments are characterized by intense physical forces and strong seasonal variations. The persistent cold and sometimes inhospitable conditions create unique ecosystems and habitats for microbial life. Polar microbial communities are diverse productive assemblages, which drive biogeochemical cycles and support higher food-webs across the Arctic and over much of the Antarctic. Recent studies on the biogeography of microbial species have revealed phylogenetically diverse polar ecotypes, suggesting adaptation to seasonal darkness, sea-ice coverage and high summer irradiance. Because of the diversity of habitats related to atmospheric and oceanic circulation, and the formation and melting of ice, high latitude oceans and lakes are ideal environments to investigate composition and functionality of microbial communities. In addition, polar regions are responding more dramatically to climate change compared to temperate environments and there is an urgent need to identify sensitive indicators of ecosystem history, that may be sentinels for change or adaptation. For instance, Antarctic lakes provide useful model systems to study microbial evolution and climate history. Hence, it becomes essential and timely to better understand factors controlling the microbes, and how, in turn, they may affect the functioning of these fragile ecosystems. Polar microbiology is an expanding field of research with exciting possibilities to provide new insights into microbial ecology and evolution. With this Research Topic we seek to bring together polar microbiologists studying different aquatic systems and components of the microbial food web, to stimulate discussion and reflect on these sensitive environments in a changing world perspective.

This book is a treatise on microbial ecotoxicology, discussing the effect of pollutants on microbial ecosystems and the role of microorganisms in ecosystems services. Emphasizing the microbial responses to pollution at different biological levels, it focuses on metabolic pathways, genetic adaptation and response at the whole-microbial community level. It also addresses the ecological indicators of ecosystem recovery, as well as microbial biomarkers and biosensors as tools for microbial ecotoxicology.

Launching on Oxford Medicine Online in 2012, with the full-text of eight Mayo Clinic Scientific Press (MCSP) print titles and a bank of multiple-choice questions, Mayo Clinic Toolkit provides a single location for resident, fellow, and practicing clinicians to undertake the self-testing necessary to prepare for, and pass, the Boards. The medical management of infectious diseases and antimicrobial therapy can be a daunting task for health care professionals. Mayo Clinic Antimicrobial Therapy: Quick Guide, Second Edition, provides information about infectious diseases and antimicrobial therapy in a format that is readily accessible and easily applicable to the clinical environment. Highlights of this resource include drug dosing recommendations for renal function and renal replacement therapies, drugs of choice for specific organisms (including bacteria, fungi, and viruses), and simplified antimicrobial and management recommendations for specific infectious syndromes. Highlights of The Mayo Clinic Toolkit include: - Each title is presented in an enhanced format, allowing the enlargement and download of all figures and images, and linking to external sources referenced in the text. - The multiple-choice questions are designed to mirror those in the Board exam for realistic preparation; they also link back to the relevant title, and allow the user to measure their development through the recording of practice-exam success. - It can be accessed on a range of internet enabled devices, giving residents, fellows, and practicing clinicians the choice to study in locations which suit them - Subscription lengths range from 1-month to a full year. Combining two complimentary resource types into a single location, with enhancements to the print works, the flexibility to choose where and when to study, and the ability to monitor revision progress, Mayo Clinic Toolkit is truly the go-to site for Board preparation.

For microbiology and environmental microbiology courses, this leading textbook builds on the academic success of the previous edition by including a comprehensive and up-to-date discussion of environmental microbiology as a discipline that has grown in scope and interest in recent years. From environmental science and microbial ecology to topics in molecular genetics, this edition relates environmental microbiology to the work of a variety of life science, ecology, and environmental science investigators. The authors and editors have taken the care to highlight links between environmental microbiology and topics important to our changing world such as bioterrorism and national security with sections on practical issues such as bioremediation, waterborne pathogens, microbial risk assessment, and environmental biotechnology. WHY ADOPT THIS EDITION? New chapters on: Urban Environmental Microbiology Bacterial Communities in Natural Ecosystems Global Change and Microbial Infectious Disease Microorganisms and Bioterrorism Extreme Environments (emphasizing the ecology of these environments) Aquatic Environments (now devoted to its own chapter- was combined with Extreme Environments) Updates to Methodologies: Nucleic Acid -Based Methods: microarrays, phyloarrays, real-time PCR, metagomics, and comparative genomics Physiological Methods: stable isotope fingerprinting and functional genomics and proteomics-based approaches Microscopic Techniques: FISH (fluorescent in situ hybridization) and atomic force microscopy Cultural Methods: new approaches to enhanced cultivation of environmental bacteria Environmental Sample Collection and Processing: added section on air sampling

The most definitive manual of microbes in air, water, and soil and their impact on human health and welfare. • Incorporates a summary of the latest methodology used to study the activity and fate of microorganisms in various environments. • Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments. • Features a section on biotransformation and biodegradation. • Serves as an indispensable reference for environmental microbiologists, microbial ecologists, and environmental engineers, as well as those interested in human diseases, water and wastewater treatment, and biotechnology.

