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Recent advances in the understanding of microbiota in health and diseases are presented in this special issue of Frontiers in Immunology and Frontiers in Microbiology as well as their impact on the immune system that can lead to the development of pathologies. Potential perspectives and biomarkers are also addressed. We offer this Research Topic involving 64 articles and 501 authors to discuss recent advances regarding: 1. An overview of the human microbiota and its capacity to interact with the human immune system and metabolic processes. 2. New developments in understanding the immune system's strategies to respond to infections and escape strategies used by pathogens to counteract such responses. 3. The link between the microbiota and pathology in terms of autoimmunity, allergy, cancers and other diseases.

Wine yeast and bacteria have been extensively characterized in terms of physiological and metabolic traits largely in pure culture analyses. Winemaking practices derived from this basic knowledge have undoubtedly improved wine quality. Phylogenetic studies and genome comparisons in extensive collections have revealed the processes of evolution and adaptation of the two main microbial species, *Saccharomyces cerevisiae* and *Oenococcus oeni*, present in wine. However, grapes and grape juice contain a variety of microorganisms and these principal agents of fermentation are in fact part of a complex microbial community that evolves dynamically in a special niche. Thanks to the new methods of analysis, the complexity of the microbiota can be measured in any sample of must or wine. In addition, there is greater appreciation of diversity within the main species present in wine. Intraspecific diversity has been evaluated in yeast and bacteria species and strains can be typed even in the mixture of selected or indigenous strains. Descriptions of microbial profiles in all the regions of the world suggest that the microbiota is a significant element of terroir or regional signature. It is no longer enough to simply describe what is present. It is important to consider evolution, physiology and metabolism taking into account microbial interactions within the community. Research in wine microbiology has also expanded our understanding of the participation and role of non-*Saccharomyces* organisms in winemaking, and refined knowledge on microbial spoilage. However, it is challenging to go from the simple description of these phenomena to their interpretation. The greatest difficulty lies in analyzing the functioning of the extraordinary complex system of yeast and bacteria present during different stages of the fermentation. Interactions in the very particular environment of fermenting grape induce alterations of relative populations' dominances and declines with subsequent impacts on wine composition. Some mechanisms have been identified or suggested, but much remains to be done. The recent advent of inoculation with non-*Saccharomyces* in oenological practice, sometimes leading to inconstant results, reflects the profound gaps that exist in knowledge of the complexity of fermentation and wine microbial ecosystems. Understanding how the microbial community works is expected to provide a sound basis before using fermentation helpers and starters, taking into account the indigenous microbiota. It will also aid in monitoring and understanding native or uninoculated fermentations that rely on the complex interactions of grape, winery and fermentation biota for their aroma and flavor profile. The aim of this Research Topic was to bring together current knowledge on several key aspects of wine microorganism biology: i) Evolution / co-evolution of yeasts and bacteria in their process of domestication and adaptation to the oenological niche. ii) Mechanisms of interactions between species and strains, both on grapes and in grape must. iii) Metabolism and physiology of yeast and bacteria in interactions with each other and with the environment, considering to what extent expected objectives (typicity, lower alcohol, etc...) can be reached by using selected strains. iv) Development of novel technologies or approaches for the assessment of changes in a dynamic microbial community and the linking of such changes to wine flavor and aroma properties. v) Diversity, ecology, physiology and metabolism of *B. bruxellensis*. Damage from this spoilage agent is not effectively prevented because we do not fully understand the biology of this species, particularly in interaction with other yeast and bacteria. Each chapter presents advances in these areas of study. Research in wine microbiology, particularly in the wine microbiome and its impacts on wine composition is enhancing our understanding of the complexities and dynamics of microbial food and beverage ecosystems.

Ecological and evolutionary genetics of plant-microbe interactions is of high importance for developing the plant science since the plants originated symbiotically (via incorporation of a phototrophic cyanobacterium into a heterotrophic eukaryon) and further evolve as the multipartite symbiotic systems, harboring the enormously diverse microbial communities. The Research Topic has integrated the top-level research on the genetic interactions in the plant-microbial associations required to develop the novel evolutionary approaches in the molecular and ecological genetics of different kinds of symbioses.

This collection presents a broad selection of recent research on analytical chemistry, including methods of determination and analysis as applied to plants, pharmaceuticals, foods, proteins, and more. Analytical chemistry is the study of what chemicals are present and in what amount in natural and artificial materials. Because these understandings are fundamental in just about every chemical inquiry, analytical chemistry is used to obtain information, ensure safety, and solve problems in many different chemical areas, and is essential in both theoretical and applied chemistry. Analytical chemistry is driven by new and improved instrumentation.

This book provides recent information on various analytical procedures and techniques, representing strategies for reliability, specificity, selectivity and sensitivity improvements in pesticides analysis. The volume covers three main topics: current trends in sample preparation, selective and sensitive chromatographic detection and determination of pesticides residues in food and environmental samples, and biological (immunoassays-and biosensors-based) methods application in pesticides analysis as an alternative to the chromatographic methods for "in situ" and "on line" pesticides quantification. Intended as electronic edition, providing an immediate "open access" to its content, the book is easy to follow and will be of interest to the professionals involved in pesticides analysis.

"Animal genetics is a central topic in upper-level animal science programs. Filling a void in existing literature on animal science, Animal Genetics introduces genetic principles and presents their application in production and companion animals. The book details population and quantitative genetics, epigenetics, biotechnology, and breeding among other topics. Useful in upper-level studies, Animal Genetics is an irreplaceable educational resource"--Provided by publisher.

Since their discovery, disinfection by-products (DBPs) have become one of the major driving forces in drinking water regulations, research and water utility operations throughout the world. The list of DBPs that can occur in treated drinking waters has grown from a few trihalomethanes to a long list of halogenated and non-halogenated organic or inorganic compounds. This list is expected to continue to grow as the analytical techniques are improved, as more information on their toxicity is developed, and as more occurrence studies are conducted. This book documents the latest DBP research findings, including emerging issues and state-of-the-art studies. Specifically, papers on the occurrence, formation, control, and health effects of emerging (unregulated) halogenated (e.g., brominated) and nonhalogenated (e.g., nitrosamines) DBPs (e.g., emerging nitrogenous vs. regulated carbonaceous DBPs) are presented. In addition to the characterization and reactivity of natural organic matter to form DBPs, new studies on algal organic matter and treated wastewater as sources of DBPs and their precursors are discussed.

This book is a printed edition of the Special Issue "Biological Activity of Natural Secondary Metabolite Products" that was published in IJMS

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